

Weatherly #002  
CATALOG NO.  
**SP1501**

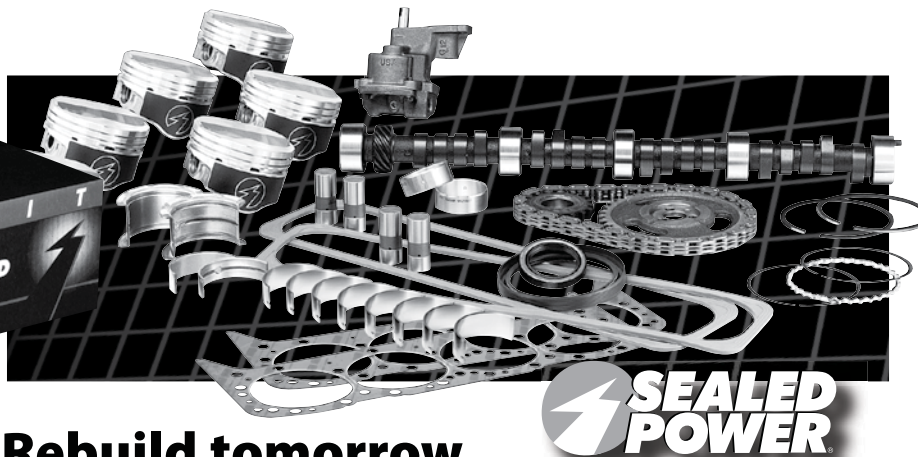


# **Engine Parts & Kits**

**Volume 1, 1990 & Earlier**

**Companion Volume to SP1502, Volume 2, 1991 to Present**

**Sealed Power®  
Engine Kits  
available overnight  
for just one,  
low flat shipping  
rate per kit.\***



## Order today. Rebuild tomorrow.

With over 1 million engine kit combinations available, Sealed Power has your rebuild needs covered – and in record time!

The Engine Express program can deliver a Sealed Power passenger car or light truck engine kit anywhere in the continental U.S. overnight.\* – It's a real lifesaver when those last-minute calls come in. And overnight shipping is one flat rate per kit! Free shipping applies to engine kit ground shipments. (And for performance engine rebuilds, we also offer Speed-Pro® engine kits – the best value in performance parts!)

## Available Sealed Power® and Speed-Pro® Kits

**Master Kit**

**Master Kit without Pistons**

**Master Kit without Rod Bearings & Main Set**

**Cam Change Kit**

**Block Kit**

**Block Kit with Pump & Plugs**

**Re-ring Kit with Mains**

**Re-ring Kit**

## Instructions

- Locate the correct kit part number in the Sealed Power Vol I or Vol II Catalogs. Be sure to ask your customer about any desired over and under sizes when taking the engine kit details.
- Call your Sealed Power Engine Express Kit Supplier.
- Need help? Federal-Mogul Engine Express Customer Service Specialists can guide you through the final size selection for the main bearing set, connecting rod bearing pair/set, pistons and rings.
- Substitutions? Let our customer service specialist know your specific customer needs and they will help guide you through the available options/substitutions. For example, does your customer require a high volume oil pump? Forged vs. cast pistons? We can help!
- Place your Engine Express order as late as 8:00 p.m. Eastern and receive the engine kit the next day. Phone orders only.
- Engine Express kits will be received at the place of business by 5:00 p.m. the following day.

**Call as late as...**

**8**

eastern

**7**

central

**6**

mountain

**5**

pacific

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### Products & Warranty

See Sealed Power SP1502 Vol 2, catalog,  
companion to SP1501 for complete product detail  
and warranty information.

## HOW TO USE THIS CATALOG

This catalog is designed to allow expedient identification of correct parts.

### The catalog is sorted as follows:

- 1ST by VEHICLE MANUFACTURER. All GM products are listed under GM.
- 2ND by ENGINE DISPLACEMENT.
- 3RD by BORE DIAMETER. Engines with the same displacement are sorted by bore diameter.
- 4TH by VALVETRAIN CONFIGURATION. DOHC engines will be listed before SOHC engines.
- 5TH by INDUCTION SYSTEM. Normally aspirated engines will be listed before Turbos.

The pages within the applications are easy to read, yet contain all the information required to select the correct part. A listing will contain three distinct sections - Valvetrain, Block and Kits.

### VALVETRAIN

Timing  
Camshafts  
Lifters  
Cam Kits  
Push Rods  
Rocker Parts  
Valves  
Valve Guides  
Valve Springs  
Valve Seals  
Valve Seats  
Valve, Misc.

### BLOCK

Pistons  
Rings  
Sleeves  
Engine Bearings  
Oil Pumps  
Gaskets  
Freeze Plugs

### KITS

Re-ring Kits  
Master Kits  
Block Kits

This edition of the Sealed Power Engine Parts Catalog includes performance upgrade parts. We have listed some entry level, "one or two step over stock", performance timing sets, camshafts and push rods in the more popular engine listings. These frequently requested products represent only a small sampling of the Speed-Pro complete performance line. For complete performance coverage, see the Speed-Pro Performance Catalog (No. X-3009).





## ENGINE FAMILIES

The following vehicle makes are covered in this catalog:

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BMW.....	28	Mitsubishi SUV's .....	See Mitsubishi Truck
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GMC Truck (Incl. Minivans & SUV's) .....	609	Volvo.....	942
Honda Car .....	717	Volvo Marine .....	944
IHC Truck .....	735	VW Car .....	949
Isuzu Car .....	751	VW Truck .....	956
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Mercedes.....	807		
Mercury .....	See Ford Car		
Mercury Marine .....	809		



## KEY TO PART NUMBERS

Product Line	Prefix Suffix	Prefix Suffix	Description
All Products	B R	Suffix Suffix	Bulk Package Performance
Camshafts	CS KC KCT	Prefix Prefix Prefix	Camshafts Cam & Lifter Kit w/prelube Cam & Lifter Kit w/Timing Set & Prelube
Engine Bearings	A AF AP BF CA CH CP DR  F MA P RA SB SH V VA W X Y YA	Suffix Suffix Suffix Suffix Suffix Suffix Suffix Suffix  Suffix Suffix Suffix Suffix Suffix Suffix Suffix Suffix Suffix Suffix Suffix	Premium A-Series Bi-Metal Aluminum Alloy Steel-backed Aluminum Thrust Washer Steel-backed Aluminum Alloy w/Overplate Steel-backed Bronze Thrust Washer Steel-backed Copper Alloy w/o Overplate — Resizable Steel-backed Alloy w/Overplate — Super Duty Steel-backed Alloy w/Overplate Steel-backed Babbitt, Steel-backed Bi-metal Alloy or Cam Bearing  Thrust Washer Set Premium A-Series Bi-Metal Aluminum Alloy Steel-backed Copper-lead Alloy w/Overplate Steel-backed Aluminum Alloy Steel-backed Babbitt Steel-backed Babbitt Bronze Pin Bushing w/Seam or Butt Joint Bronze Pin Bushing w/Seam or Butt Joint Camshaft Thrust Washer Full Round Piston Pin Bushing Bi-metal Pin Bushing w/Seam or Butt Joint Bi-metal Pin Bushing w/Seam or Butt Joint
Engine Kits	205 205-M M 505 BK BKP MK MKP MKF	Prefix Prefix Prefix Prefix Prefix Prefix Prefix Prefix Prefix Prefix	Rering Kit Rering Kit w/Main Set Rering Kit w/Main Set Master Kit w/o Rod & Main Bearings Block Kit Block Kit w/Freeze Plugs & Oil Pump Master Kit w/o Pistons Master Kit Master Kit w/Forged Pistons
Freeze Plugs	381	Prefix	Expansion Plug Kit
Gaskets	260	Prefix	Gasket, Gasket Set
Oil Pumps	224 P PS S V VS	Prefix Suffix Suffix Suffix Suffix Suffix	Oil pumps & components High Pressure High Pressure Incl. Screen Includes Screen High Volume Pump High Volume Incl. Screen
Piston Pin	P	Prefix	Piston Pin
Piston Rings	K KC KX W X	Suffix Suffix Suffix Suffix Suffix	Moly Set Chrome Set Premium Chrome or Moly Set Single Piston Ring Set Plain Set
Pistons	CP CT H K L W	Suffix Suffix Prefix Prefix Prefix Prefix	DUROSHIELD™ Piston THERMOSHIELD® Piston Hypereutectic Piston Piston & Ring Combination Sets POWERFORGED® Piston Single Piston
Push Rods	BPR RP	Prefix Prefix	Bulk Push Rods Push Rod

Product Line	Prefix Suffix	Prefix Suffix	Description
Rocker Arm Parts	A MR R RA RR RS RT	Suffix Prefix Prefix Prefix Prefix Prefix Prefix	Rocker Arm Only Miscellaneous Components (Nuts, Studs, Pivots) Rocker Arm or Rocker Arm Kit Rocker Arm Assembly Roller Rocker Rocker Arm Shaft Rocker Shaft Support
Rotocaps	A RC S SA	Suffix Prefix Suffix Suffix	Rotocap Assembly Rotocaps or Rotocap Assembly Rotocap Rotocap Assembly
Sleeves	A	Prefix	Dry Sleeves & Sleeve Assemblies
Timing Components	220 221 222 223 KT KT2 KT3	Prefix Prefix Suffix Prefix Prefix Prefix Prefix	Timing Speed Set Timing Gears & Gear Sets Timing Chains, Belts, Guides & Tensioners Timing Sprocket Multiple Piece Set Two Piece Timing Kit Three Piece Timing Kit
Valve Guides	5000 T VG H	Series Suffix Prefix Suffix	Conversion Type Guide Threaded Valve Guide Valve Guide Hardened
Valve Lifters	AT HT	Prefix Prefix	Mechanical Lifter Hydraulic Lifter
Valve Locks	R VK	Suffix Prefix	Hardened Valve Lock Valve Lock
Valve Seats	245 1-49 50-up C E N	Prefix Suffix Suffix Suffix Suffix Suffix	Valve Seat Different I.D. & Depth Versions Oversize Inserts for Aluminum Cylinder Heads Valve Seat w/Stellite #3 (Cobalt) Factory Installed Seat Premium Material
Valve Spring Inserts	259 A B C	Prefix Suffix Suffix Suffix	Valve Spring Insert .060" Thick Valve Spring Insert .030" Thick Valve Spring Insert .015" Thick Valve Spring Insert
Valve Spring Retainers	VSR	Prefix	Valve Spring Retainer
Valve Springs	VS	Prefix	Valve Spring
Valve Stem Cups	VC	Prefix	Valve Stem Cup
Valve Stem	MT	Prefix	Valve Guide Cutter Tool
Oil Seals	BC C MV S ST	Prefix Prefix Prefix Suffix Prefix	100 Bulk Pack Applications QTY Pack Umbrella Type Valve Seal Valve Stem Seal Set Positive Type Valve Seal
Valves	A K V X	Suffix Suffix Prefix Suffix	Valve Assembly Valve Kit Intake & Exhaust Valves Special Material Indicator





## ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
&	And	cm	Centimeter
2WD	Two Wheel Drive	Cntr. Bore	Counter Bore
4WD	Four Wheel Drive	Compl.	Complete
A.I.R.	Air Injector Reactor	Con. Rod	Connecting Rod
A/C	Air Conditioning	Cruise	Cruise Control
A/R	As Required	Ctr.	Center
A/T	Automatic Transmission	CW	Clockwise
ABS	Anti-lock Brake System	Cyl.	Cylinder
AC	Alternating Current	Cyl. Hd.	Cylinder Head
Acc.	Accessory	DC	Direct Current
Adj.	Adjustable	Deg.	Degree
Adv.	Advance	DFI	Digital Fuel Injection
Aft.	After	Dia.	Diameter
Alt.	Altitude	Dim.	Dimension
Alum.	Aluminum	Dir. Inj.	Direct Injection
Amp.	Ampere	Disc.	Discontinued
AOD	Automatic Overdrive	Dist.	Distributor
Appl.	Application	DOHC	Dual Overhead Camshaft
Approx.	Approximately	Dr.	Door or Drive
Asst.	Assist	E.E.C.	Electronic Engine Control
Assy.	Assembly	E.I.S.	Electronic Ignition System
ATV	All Terrain Vehicle	Ea.	Each
Auto.	Automatic	Ecc.	Eccentric
Auto. Trans.	Automatic Transmission	ECM	Electronic Computer Module
Aux.	Auxiliary	ECM	Electronic Control Module
Avail.	Available	ECM	Engine Control Module
Avg.	Average	Econ.	Economy
AWD	All Wheel Drive	ECS	Electronic Controlled Spark
Bal.	Balance	EFI	Electronic Fuel Injection
Batt.	Battery	Elec.	Electric
Bbl.	Barrel	Emis.	Emission
Bbl. Carb.	Barrel Carburetor	Eng.	Engine
Bef.	Before	Equip.	Equipment
Brg.	Bearing	Etc.	Et Cetera
Brkt.	Bracket	Exc.	Except
C	Celsius	Exh.	Exhaust
C.I.	Cast Iron	Exp.	Export
C.R.	Compression Ratio	Ext.	Exterior
C/L	Centerline	Ext.	External
Calib.	Calibration	F	Fahrenheit
Calif.	California	Fed.	Federal
Cam	Camshaft	FI	Fuel Injection
Can.	Canada	Flex.	Flexible
Carb.	Carburetor	Flg.	Flange
Cat.	Catalytic	Flwr.	Follower
cc	Cubic Centimeter	Frg.	Forged or Forging
CCW	Counter Clockwise	Frt.	Front
CD	Compression Distance	FWD	Front Wheel Drive
CFFI	Cross Fire Injection	Gal.	Gallon
CFI	Central Fuel Injection	Gas.	Gasoline
CFM	Cubic Feet per Minute	GPH	Gallons Per Hour
CID	Cubic Inch (Displacement)	GPM	Gallons Per Minute
Cld.	Cooled	Grv(s)	Groove(s)
Clg.	Cooling	Gskt.	Gasket
Clr.	Cooler	GVW	Gross Vehicle Weight
		H/D	Heavy Duty
		Hd.	Head
		HEI	High Energy Ignition
		Hi	High



## ABBREVIATIONS

ABBREVIATION	DESCRIPTION
Hi Alt.	High Altitude
Hi-Perf.	High Performance
Hi-Temp.	High Temperature
HO	High Output
Horiz.	Horizontal
HP	Horsepower
HSC	High Swirl Combustion
Hyd.	Hydraulic
I/C	Intercooler
I.D.	Identification
ID	Inside Diameter
In. Frm.	In Frame
in.	Inch
Incl.	Includes
Ind.	Industrial
Inj.	Injection
Int.	Intake
Inter.	Intermediate
L	Liter
L.H.	Left Hand
L/D	Light Duty
Lgth.	Length
LPG	Liquid Propane Gas
M/D	Medium Duty
M/T	Manual Transmission
Man.	Manual
Man. Trans.	Manual Transmission
Max.	Maximum
Mech.	Mechanical
MFI	Multi-Port Fuel Injection
Min.	Minimum
mm	Millimeters
MPH	Miles Per Hour
Mtl.	Material
N/A	Not Available
N/R	Not Required
Nat.	Natural
Nat. Asp.	Naturally Aspirated
Neg.	Negative
Neut.	Neutral
No.	Number
Nom.	Nominal
Norm.	Normal
O.A.L.	Overall Length
O.E.	Original Equipment
O/D	Overdrive
O/S	Oversize
Obs.	Obsolete
OD	Outside Diameter
OEM	Original Equipment Manufacturer
OHC	Overhead Cam
OHV	Overhead Valve
Opt.	Optional
Orig.	Original
oz.	Ounce
P. T.O.	Power Take Off
P/S	Power Steering
Pass.	Passenger
Pc(s)	Piece(s)

ABBREVIATION	DESCRIPTION
PCV	Positive Crankcase Ventilation
Perf.	Performance
Pkg.	Package
Pos.	Positive
Prem.	Premium
Pri.	Primary
PSI	Pound Per Square Inch
Pwr.	Power
Qtr.	Quarter
Qty.	Quantity
R.B.P.	Ring Below Pin
R.H.	Right Hand
Ref.	Reference
Reg.	Regular
Reman.	Remanufactured
Req'd	Required
Rev.	Revision
Rev. Rot.	Reverse Rotation
Rlr.	Roller
RMB	Rear Main Bearing
Rot.	Rotation
RPM	Revolutions Per Minute
Rr.	Rear
RWD	Rear Wheel Drive
S/C	Supercharged
Seal. Rings	Sealing Rings
Ser.	Serial or Series
Ser. No.	Serial Number
SFI	Sequential Fuel Injection
Slv.	Sleeve
SOHC	Single Overhead Cam
Spd.	Speed
Spec.	Special
Sta.	Station
Std.	Standard
Sys.	System
T/C	Turbocharged
Tach	Tachometer
TBI	Throttle Body Injection
Temp.	Temperature
TPI	Tuned Port Injection
Trans.	Transmission
Trk.	Truck
TTY	Torque-to-Yield
TURBO	Turbocharged
U/S	Under Size
Veh.	Vehicle
VIN	Vehicle Identification Number
VIV	Valve
VSS	Valve Stem Seal
w/	With
w/o	Without
Wagon	Station Wagon
Wt.	Weight





## ENGINE KITS

Sealed Power offers seven different types of Engine Kits and six different types of Camshaft Kits. The catalog references the kit type in the Description with the corresponding kit number, including the kit type prefix.

In addition to the kit types, Sealed Power Engine Kits allow one component substitution and one deletion to fit the specific engine rebuild need.

Kit Component	Master Kit	Master Kit w/o Pistons	Master Kit w/o Rod Brgs & Main Set	Block Kit with Pump & Plugs	Block Kit	Re-Ring Kit w/ Main	Re-Ring Kit
	MKP	MK	505	BKP	BK	205-___ M	205
Rings	Rings	Rings	Rings	Rings	Rings	Rings	Rings
Gaskets	Gaskets	Gaskets	Gaskets	Gaskets	Gaskets	Gaskets	Gaskets
Cam Brgs (Where Applicable)	Cam Brgs	Cam Brgs	Cam Brgs	Cam Brgs	Cam Brgs		
Oil Pump	Oil Pump	Oil Pump	Oil Pump	Oil Pump			
Freeze Plugs	Freeze Plugs	Freeze Plugs	Freeze Plugs	Freeze Plugs			
Camshaft	Camshaft	Camshaft	Camshaft				
Lifters	Lifters	Lifters	Lifters				
Timing Set	Timing Set	Timing Set	Timing Set				
Pistons	Pistons		Pistons	Pistons	Pistons		
Rod Bearings	Rod Bearings	Rod Bearings		Rod Bearings	Rod Bearings	Rod Bearings	Rod Bearings
Main Bearings	Main Bearings	Main Bearings		Main Bearings	Main Bearings	Main Bearings	

## CAM CHANGE KITS



Kit Component	Cam & Lifter Kit	Cam & Follower Kit	Cam, Lifter & Follower Kit	Cam, Lifter & Timing Kit	Cam, Follower & Timing Kit	Cam, Lifter, Follower & Timing Kit
	KC-	KC-	KC-	KCT-	KCT-	KCT-
Camshaft	Camshaft	Camshaft	Camshaft	Camshaft	Camshaft	Camshaft
Lifters	Lifters		Lifters	Lifters		Lifters
Followers		Followers	Followers		Followers	Followers
Timing Set				Timing Set	Timing Set	Timing Set
Gaskets						
Prelube	Prelube	Prelube	Prelube	Prelube	Prelube	Prelube

Note: The above tables list the components found in most kits. Some kit components may deviate from this table. Please refer to the Bill of Materials section in the rear of this catalog for a precise listing of components included in each kit.





# Acura - See Honda Car AMC

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.4L 85.2 (1397cc) OHV L4 76mm Bore (8 Valve) (Renault Eng.).....	1987-83	1	4.1L 250 OHV V8 3.5" Bore (AMC).....	1959-56	10
2.0L 121 (1984cc) SOHC L4 86.5mm Bore (8 Valve) (Audi Eng.).....	1979-77	2	4.2L 258 OHV L6 3.75" Bore.....	1988-71	11
2.5L 150 OHV L4 3.875" Bore (AMC).....	1988-83	3	4.7L 287 OHV V8 3.75" Bore.....	1966-63	12
2.5L 151 OHV L4 4" Bore (Pontiac) (GMC Eng.).....	1983-80	4	4.7L 290 OHV V8 3.75" Bore.....	1969-66	13
3.0L 184 L-HEAD L6 3.125" Bore (Nash).....	1953	5	5.0L 304 OHV V8 3.75" Bore.....	1979-70	14
3.2L 195.6 OHV L6 3.125" Bore (AMC).....	1965-58	6	5.3L 327 OHV V8 4" Bore (Vigilante).....	1966-56	15
3.2L 195.6 L-HEAD L6 3.125" Bore (AMC).....	1965-52	7	5.6L 343 OHV V8 4.08" Bore.....	1969-67	16
3.3L 199 OHV L6 3.75" Bore.....	1970-65	8	5.8L 352 OHV V8 4" Bore (Packard).....	1956	17
3.8L 232 OHV L6 3.75" Bore (Hi Torque).....	1979-64	9	5.9L 360 OHV V8 4.08" Bore.....	1978-70	18
			6.4L 390 OHV V8 4.165" Bore.....	1970-68	19
			6.6L 401 OHV V8 4.165" Bore.....	1976-71	20

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
C3J.....	1.4L 85.2 (1397cc) OHV L4 76mm Bore (8 Valve) (Renault Eng.).....	1			

1.4L 85.2 (1397cc) OHV L4 (8 Valve), 76mm Bore (Renault Eng.) 1987-83					1
VIN Codes "D" 1983-87, "E" 1983-85, Eng. Code "C3J" 1983-87					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Thrust Washer Set	87-83	60476BF	Std Only Position 3	

2.0L 121 (1984cc) SOHC L4 (8 Valve), 86.5mm Bore (Audi Eng.) 1979-77					2
VIN Codes "G" 1977-79, "K" 1977					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	79-77	222-17		
1	Timing Belt & Tensioner Set	79-77	BTS-17		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
8	Spring Insert	79-77	259-201B	.030"; Carton of 100	
8	Spring Insert	79-77	259-201A	.060"; Carton of 100	
8	Spring Insert	79-77	259-201ARS	.060"; Carton of 500	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	79-77	381-8036		

2.5L 150 OHV L4 (AMC), 3.875" Bore 1988-83					3
VIN Code "U" 1983-88					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	3 Piece Set	87-83	KT3-3SR64S	Incl. (1) 222-3SR64, (1) 223-607, (1) 223-608A	
1	Timing Chain	87-83	222-3SR64	Single rlr.; 64 Links	
1	Timing Chain Tensioner	87-83	222-167CT		
1	Crank Sprocket	87-83	223-607	24 Teeth	
1	Cam Sprocket	87-83	223-608A	48 Teeth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	85-83	CS-779		
8	Lifter	85-83	HT-2011	Std Only Hyd.	
8	Lifter, Bulk	85-83	HT-2011B	Std Only Hyd.; Carton of 117	
1	Prelube	85-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	85-83	KC-779	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) 55-403B	
1	Cam/Lifter/Timing Kit	85-83	KCT-779	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) KT3-3SR64S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
8	Push Rod	85-83	RP-3236	9.4860" O.A.L.	
8	Push Rod, Bulk	85-83	BRP-3236	Carton of 100; 9.4860" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
4	Arm Assy.	85-83	R-905	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm	
4	Arm Assy., Bulk	85-83	R-905B	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32	
8	Arm	85-83	R-905A	Stamped rocker arm	
4	Bridge	85-83	MR-1840		
4	Pivot	85-83	MR-1909	Incl. 2-pivots & 1-bridge	
8	Pivot	85-83	MR-1839	Pivot only	

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# AMC

## 3 2.5L 150 OHV L4 (AMC), 3.875" Bore 1988-83

(cont.) VIN Code "U" 1983-88

VALVE TRAIN		VALVE		VALVE	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	85-83	V-2295 Std Only	Chrome plated stem; Square cut key groove; 1.5000" Head Dia., .3115" Stem Dia., 4.9390" O.A.L.	
4	Intake	85-83	V-2294 Std Only	Chrome plated stem; Square cut key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.	
8	VALVE SPRING Spring	85-83	VS-822	Cylindrical shape; 1.8340" Free Height	
8	VALVE SEAL Valve Stem Seal	85-83	ST-2043	Positive type; Rubber	
8	Valve Stem Seal Bulk	85-83	ST-2043B	Positive type; Carton of 1000; Rubber	
4	VALVE SEAT Exh.	85-83	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth	
4	Exh.	85-83	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth	
4	Int.	85-83	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth	
16	VALVE, MISC Keeper	85-83	VK-144	1 groove; Square cut key groove	
16	Keeper	85-83	VK-144R	1 groove; Square cut key groove; Hardened	
16	Keeper, Bulk	85-83	VK-144B	1 groove; Square cut key groove; Carton of 1000	
4	PISTON Cast Piston	85-83	525CP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; DurOshield® skirt coated piston	
4	Cast Piston	85-83	525P Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.	
4	Cast Piston - Individual	85-83	W525CP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; DurOshield® skirt coated piston	
4	Cast Piston - Individual	85-83	W525P Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.	
1	RINGS Premium Set	85-83	E-450K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	85-83	E-450X Std-20-30-40-60	2-5/64, 1-3/16	
1	Premium Single Cylinder Set	85-83	WE-450K Std-20-30-40-60	2-5/64, 1-3/16	
4	Standard Single Cylinder Set	85-83	WE-450X Std-20-30-40-60	2-5/64, 1-3/16	
1	ENGINE BEARINGS Main Set	85-83	6676M Std-10-20-30		
1	Rod Set	85-83	4-3310CPA Std-10-20-30-40		
4	Rod Pair	85-83	3310CPA Std-1-2-10-20-30-40-50-60		
1	Cam Set	85-83	1244M Std-10		
1	OIL PUMP Oil Pump	88-83	224-41198	Replaces pump w/cover having tab & slotted hole	
1	Pump Repair Kit	88-83	224-51198	Use w/pump having cover w/tab & slotted hole	
1	GASKETS Kit Gasket Set	85-83	260-1191	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	FREEZE PLUGS Brass Block Plug Kit	85-83	381-8086		
RE-RING KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
85-83	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-858	205-358
		Re-ring w/Mains		205-858M	205-358M
OVERHAUL KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
85-83	Freeze plugs not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master		MKP-858A	MKP-358A
		Master w/o Pistons		MK-858A	MK-358A
		Master w/o Rods & Mains		505-858A	505-358A

## 4 2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80

VIN Code "B" 1980-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	83-80	221-2542LS	Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542
1	Crank Gear	83-80	221-2537	27 Teeth
1	CAMSHAFT/LIFTER Camshaft	83-80	CS-696	
8	Lifter	83-80	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter, Bulk	83-80	HT-969B Std Only	Hyd.; Carton of 128

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2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80 4  
VIN Code "B" 1980-83 (cont.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	(cont.) Prelube	83-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
8	PUSH ROD	83-82	RP-3211	8.9760" O.A.L.
8	Push Rod, Bulk	83-82	BRP-3211	Carton of 100; 8.9760" O.A.L.
8	ROCKER PARTS	83-80	R-894	Incl. arm & 2-pivots
8	Arm Assy.	83-80	R-894B	Incl. arm & 2-pivots; Carton of 64
8	Arm Assy., Bulk	83-80	R-894A	
8	Arm	83-80	MR-1832	Hole I.D. .4365"
8	Pivot Ball	83-80	MR-1841	Hole I.D. .4745"
8	Pivot Ball	83-80	MR-1934	3/8" x 24 UNF
8	Nut	83-80	MR-1936	
8	Bolt	83-81	MR-1936	
4	VALVE	83-80	V-2203 Std Only	Chrome plated stem; 1.5000" Head Dia., .3422" Stem Dia., 4.6200" O.A.L.
4	Exhaust	83-80	V-2204 Std Only	Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
4	Intake	83-80	V-2204 Std Only	Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
8	VALVE GUIDE	83-80	VG-5005	.3430" ID, 2.2500" O.A.L.
8	Guide	83-80	VG-5005H	Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	83-80	VG-5005T	Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	83-80	VG-5005B	Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	83-80	VG-5005TB	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	VALVE SPRING	83-80	VS-521	Incl. damper; 2.1090" Free Height
8	Spring	83-80	VS-521	
8	VALVE SEAL	83-80	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	83-80	MV-1233C	O-Ring; Rubber
8	Valve Stem Seal	83-80	MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	83-80	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	83-80	ST-2001BC	
4	VALVE SEAT	83-80	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Exh.	83-80	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
4	Exh.	83-80	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
4	Int.	83-80	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
16	VALVE, MISC	83-80	VK-115	1 groove; Square cut key groove
16	Keeper	83-80	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	83-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	83-80	259-201B	.030"; Carton of 100
8	Spring Insert	83-80	259-201A	.060"; Carton of 100
8	Spring Insert	83-80	259-201ARS	.060"; Carton of 500
4	PISTON	83-82	H553CP Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	83-80	H547CP Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	83-80	H547P Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	81-80	465AP * Std-30-40-60	Use w/E-381K or E-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-80	465NP Std-30-40-60	Use w/E-381K or E-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-80	H553CP Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>

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# AMC

## 4 2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80

(cont.) VIN Code "B" 1980-83

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
4	Cast Piston - Individual	83-82	<b>WH553CP</b> Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	83-80	<b>WH547CP</b> Std-20-30-40-60	Use w/WE-384K or WE-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	83-80	<b>WH547P</b> Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	81-80	<b>W465NP</b> Std Only	Use w/WE-381K or WE-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston - Individual	81-80	<b>WH553CP</b> Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-80	<b>4KH547CP60</b> 60	Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	83-82	<b>E-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Premium Set	83-80	<b>E-381K</b> Std-20-30-40-60	Use w/H553CP or 465NP piston; 2-5/64, 1-3/16
1	Standard Set	83-82	<b>E-384X</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Standard Set	83-80	<b>E-381X</b> Std-20-30-40-60	Use w/H553CP or 465NP piston; 2-5/64, 1-3/16
4	Premium Single Cylinder Set	83-82	<b>WE-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
4	Premium Single Cylinder Set	83-80	<b>WE-381K</b> Std-20-30	Use w/WH553CP or W465NP piston; 2-5/64, 1-3/16
4	Standard Single Cylinder Set	83-80	<b>WE-381X</b> Std-20-30-40	Use w/WH553CP or W465NP piston; 2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
4	Repair Sleeve	83-80	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
4	Repair Sleeve	83-80	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-80	<b>6689MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>
1	Rod Set	83-80	<b>4-2500RAA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	83-80	<b>4-2500RAA10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
4	Rod Pair	83-80	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set	83-80	<b>1461M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	83-80	<b>224-41239</b>	
1	Oil Pump	83-80	<b>224-41239V</b>	High Volume, check pan for clearance
1	Inter. Shaft	83-80	<b>224-61239</b>	
1	Screen Assy.	83-80	<b>224-11239</b>	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	83-80	<b>260-1128</b>	Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	83-80	<b>381-8045</b>	

RE-RING KIT	YEARS	DESCRIPTION	RE-RING	PREMIUM KIT NO.	ECONOMY KIT NO.
	83-82	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove		205-714	205-214

## 5 3.0L 184 L-HEAD L6 (Nash), 3.125" Bore 1953

QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	53	<b>SL-9M</b> Std Only	3/32" wall, must be cut to correct length

## 6 3.2L 195.6 OHV L6 (AMC), 3.125" Bore 1965-58 VIN Codes "B" 1960-65, "C" 1960-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	65-64	<b>222-365</b>	w/Cast iron block; 60 Links
1	Timing Chain	64-62	<b>222-354</b>	w/Alum. block; w/3/4" sprocket; Silent type; 1" wide chain; 56 Links

(continued on next page)

<b>3.2L 195.6 OHV L6 (AMC), 3.125" Bore 1965-58 6</b>					
VIN Codes "B" 1960-65, "C" 1960-65 (cont.)					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Lifter	64-61	<b>HT-2011</b> Std Only	w/Alum. block; Hyd.
	12	Lifter, Bulk	64-61	<b>HT-2011B</b> Std Only	w/Alum. block; Hyd.; Carton of 117
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	65-61	<b>VG-5006</b>	Exh.; w/Alum. block; .3440" ID, 2.3750" O.A.L.
	6	Guide	65-61	<b>VG-5006T</b>	Exh.; w/Alum. block; Threaded; .3425" ID, 2.3800" O.A.L.
	6	Guide, Bulk	65-61	<b>VG-5006B</b>	Exh.; w/Alum. block; Carton of 50; .3440" ID, 2.3750" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Valve Stem Seal	65-58	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
	1	Valve Stem Seal	65-58	<b>MV-1765</b>	Umbrella type; Carton of 100; Rubber
	1	Valve Stem Seal Bulk	65-58	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exh.	65-58	<b>245-1437-3</b> Std Only	w/Cast iron block; 1.4425" OD, 1.1880" ID, .2160" Depth
	6	Exh.	65-58	<b>245-1437-3N</b> Std Only	w/Cast Iron block; Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
	6	Int.	65-58	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
	6	Int.	65-58	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Keeper	65-58	<b>VK-115</b>	Int.; 1 groove; Square cut key groove
	12	Keeper	65-58	<b>VK-115R</b>	Int.; 1 groove; Square cut key groove; Hardened
	12	Keeper, Bulk	65-58	<b>VK-115B</b>	Int.; 1 groove; Square cut key groove; Carton of 1000
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Brass Block Plug Kit	65-58	<b>381-8000</b>	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Engs.
<b>3.2L 195.6 L-HEAD L6 (AMC), 3.125" Bore 1965-52 7</b>					
VIN Code "A" 1960-65					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exh.	65-52	<b>245-1375-4</b> Std Only	1.3795" OD, 1.1250" ID, .1855" Depth
	6	Int.	65-52	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
	6	Int.	65-52	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Repair Sleeve	55-52	<b>SL-9M</b> Std Only	3/32" wall, must be cut to correct length
<b>3.3L 199 OHV L6, 3.75" Bore 1970-65 8</b>					
VIN Codes "A" 1966-70, "B" 1970, "E" 1966, "J" 1965-69, "P" 1968-69					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	3 Piece Set	70-65	<b>KT3-494S</b>	Incl. (1) 222-494, (1) 223-355, (1) 223-388
	1	Timing Chain	70-65	<b>222-494</b>	48 Links
	1	Crank Sprocket	70-65	<b>223-355</b>	18 Teeth
	1	Cam Sprocket	70-65	<b>223-388</b>	36 Teeth
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	70-65	<b>CS-652</b>	Hyd.
	12	Lifter	70-65	<b>HT-2011</b> Std Only	Hyd.; Carton of 117
	12	Lifter, Bulk	70-65	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
	1	Prelube	70-65	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	70-65	<b>KC-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
	1	Cam/Lifter/Timing Kit	70-65	<b>KCT-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Arm	70-65	<b>R-864</b>	Cast iron
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	70-65	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
	6	Intake	70-65	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Guide	70-65	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	70-65	<b>VS-666</b>	w/damper; 2.2600" Free Height
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Valve Stem Seal	70-65	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal Bulk	70-65	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

(continued on next page)

# AMC

## 8 3.3L 199 OHV L6, 3.75" Bore 1970-65

(cont.) VIN Codes "A" 1966-70, "B" 1970, "E" 1966, "J" 1965-69, "P" 1968-69

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	70-65	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	70-65	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	70-65	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	70-65	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	70-65	VK-174	4 groove
24	Keeper	70-65	VK-174R	4 groove; Hardened
12	Spring Insert	70-65	259-103C	.015"; ID 1.030"; Carton of 100
12	Spring Insert	70-65	259-103B	.030"; ID 1.030"; Carton of 100
12	Spring Insert	70-65	259-103BRS	.030"; ID 1.030"; Carton of 500
12	Spring Insert	70-65	259-103A	.060"; ID 1.030"; Carton of 100
12	Spring Insert	70-65	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	70-65	E-222K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	70-65	E-222X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	70-65	WE-222K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	70-65	WE-222X Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	70-65	SL-19M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	70-65	4289M Std-10-20-30-40-60	
1	Rod Set	70-65	6-3310CPA Std-1-10-20-30-40-50-60	
6	Rod Pair	70-65	3310CPA Std-1-2-10-20-30-40-50-60	
1	Cam Set	70-65	1244M Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	70-65	224-41199	Replaces pump w/o cover having tab & slotted hole
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	70-65	260-1007	Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	70-65	381-8000	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
70-65	Premium valve stem seals incl.	Re-ring	205-610	205-110
		Re-ring w/Mains	205-610M	205-110M

## 9 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore 1979-64

VIN Codes "B" 1966-69, "C" 1968-69, "E" 1967-79, "F" 1966-71, "G" 1966-71, "L" 1964-68, "M" 1966-67 & 1969, "P" 1967-69, "Q" 1970-71, "S" 1965-67, "T" 1967, "V" 1966, "W" 1965

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	79-64	KT3-494S	Incl. (1) 222-494, (1) 223-355, (1) 223-388
1	Timing Chain	79-64	222-494	48 Links
1	Crank Sprocket	79-64	223-355	18 Teeth
1	Cam Sprocket	79-64	223-388	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	79-76	CS-652	VIN Code "E"
1	Camshaft	75-64	CS-652	
12	Lifter	79-66	HT-2011 Std Only	Hyd.
12	Lifter, Bulk	79-66	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	79-64	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	79-76	KC-652	VIN Code "E"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	75-66	KC-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-76	KCT-652	VIN Code "E"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-66	KCT-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	79-75	RP-3171	9.5940" O.A.L.
12	Push Rod	74-72	RP-3171	w/o rocker arm shaft; 9.5940" O.A.L.
12	Push Rod	74-72	RP-3163	w/rocker arm shaft; 9.6560" O.A.L.
12	Push Rod	71-68	RP-3163	9.6560" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	79-72	R-905	w/o rocker arm shaft; Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm

(continued on next page)

**3.8L 232 OHV L6 (Hi Torque), 3.75" Bore 1979-64 9**

VIN Codes "B" 1966-69, "C" 1968-69, "E" 1967-79, "F" 1966-71, "G" 1966-71, "L" 1964-68, "M" 1966-67 (cont.) & 1969, "P" 1967-69, "Q" 1970-71, "S" 1965-67, "T" 1967, "V" 1966, "W" 1965

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
12	Arm Assy., Bulk	79-72	<b>R-905B</b>	w/o rocker arm shaft; Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
12	Arm	79-75	<b>R-905A</b>	Stamped rocker arm
12	Arm	74-72	<b>R-905A</b>	w/o rocker arm shaft; Stamped rocker arm
12	Arm	74-72	<b>R-864</b>	w/rocker arm shaft; Cast iron
12	Arm	71-64	<b>R-864</b>	Cast iron
6	Pivot	79-75	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge
6	Pivot	74-72	<b>MR-1909</b>	w/o rocker arm shaft; Incl. 2-pivots & 1-bridge
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	79-74	<b>V-2023</b> Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	73-64	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Intake	79-64	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	79-64	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	79-78	<b>VS-743</b>	1.9900" Free Height
12	Spring	77	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	77	<b>VS-743</b>	w/Rotators; 1.9900" Free Height
12	Spring	76	<b>VS-743</b>	1.9900" Free Height
12	Spring	75	<b>VS-666</b>	w/damper; 2.2600" Free Height
12	Spring	74	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	73-64	<b>VS-666</b>	w/damper; 2.2600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	79-64	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	79-64	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	79-64	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	79-64	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	79-64	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	79-64	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	79-73	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	79-73	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	79-73	<b>VK-174</b>	4 groove
24	Keeper	79-73	<b>VK-174R</b>	4 groove; Hardened
24	Keeper	72-64	<b>VK-138</b>	1 groove; Square cut key groove
24	Keeper	72-64	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	72-64	<b>VK-174</b>	4 groove
24	Keeper	72-64	<b>VK-174R</b>	4 groove; Hardened
24	Keeper, Bulk	79-73	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	72-64	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	79-64	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
12	Spring Insert	79-64	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
12	Spring Insert	79-64	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
12	Spring Insert	79-64	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
12	Spring Insert	79-64	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	79-77	<b>456NP</b> Std-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	79-77	<b>456P</b> Std-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	76-68	<b>409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston	67-64	<b>409P</b> Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	79-77	<b>W456NP</b> * Std Only	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston - Individual	79-77	<b>W456P</b> Std-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston - Individual	76-68	<b>W409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	67-64	<b>W409P</b> Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

(continued on next page)

# AMC

## 9 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore 1979-64

(cont.) VIN Codes "B" 1966-69, "C" 1968-69, "E" 1967-79, "F" 1966-71, "G" 1966-71, "L" 1964-68, "M" 1966-67 & 1969, "P" 1967-69, "Q" 1970-71, "S" 1965-67, "T" 1967, "V" 1966, "W" 1965

QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	79-64	E-222K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	79-64	E-222X Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	79-64	WE-222K Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	79-64	WE-222X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	79-64	SL-19M Std Only	3/32" wall, must be cut to correct length	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	79-64	4289M Std-10-20-30-40-60		
1	Rod Set	79-64	6-3310CPA Std-1-10-20-30-40-50-60		
6	Rod Pair	79-64	3310CPA Std-1-2-10-20-30-40-50-60		
1	Cam Set	79-64	1244M Std-10		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	79-67	224-43428	Incl. pump & screen	
1	Oil Pump	79-64	224-41199	Replaces pump w/o cover having tab & slotted hole	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	79-64	260-1007	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	79-64	381-8000	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Engs.	
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
		79-64	Premium valve stem seals incl.	205-610	205-110
			Re-ring	205-610M	205-110M
			Re-ring w/Mains		

## 10 4.1L 250 OHV V8 (AMC), 3.5" Bore 1959-56

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	59-56	222-349	5/8" wide; 62 Links
1	Crank Sprocket	59-56	223-281	Use w/5/8" wide chain; 23 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	59-57	AT-937 Std Only	Barrel shaped mech.
16	Lifter	59-57	AT-2084 Std Only	Dumbbell shaped mech.
16	Lifter	57-56	HT-879 Std Only	Exc. Hudson; Hyd.
16	Lifter, Bulk	59-57	AT-937B Std Only	Barrel shaped mech.; Carton of 117
16	Lifter, Bulk	59-57	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	59	V-2023 Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
8	Intake	59	V-1981 Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	59-56	VS-666	w/damper; 2.2600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	59	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	58-56	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	59	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	59	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	59	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	58-56	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	59-56	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
8	Exh.	59-56	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
8	Int.	59-56	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	59-56	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	59	VK-174	4 groove
32	Keeper	59	VK-174R	4 groove; Hardened
32	Keeper	58-56	VK-115	1 groove; Square cut key groove
32	Keeper	58-56	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	58-56	VK-115B	1 groove; Square cut key groove; Carton of 1000

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**4.1L 250 OHV V8 (AMC), 3.5" Bore 1959-56 10**

(cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>
	1	Premium Set	59-56	<b>E-236K</b> Std-30	2-5/64, 1-3/16	
	1	Standard Set	59-56	<b>E-236X</b> Std-30-40	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	59-56	<b>WE-236K</b> Std-30	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	59-56	<b>WE-236X</b> Std-30-40	2-5/64, 1-3/16		
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Repair Sleeve	59-56	<b>SL-15M</b> Std Only	3/32" wall, Must be cut to correct length		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	59-56	<b>4010M</b> Std-10-20			
8	Rod Pair	59-56	<b>2230CP</b> Std-10-20			

**4.2L 258 OHV L6, 3.75" Bore 1988-71 11**

VIN Codes "A" 1971-79, "B" 1971, "C" 1976-88

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
	1	3 Piece Set	88-82	<b>KT3-504S</b>	Incl. (1) 222-504, (1) 223-355, (1) 223-388	
	1	3 Piece Set	81-71	<b>KT3-494S</b>	Incl. (1) 222-494, (1) 223-355, (1) 223-388	
	1	Timing Chain	88-82	<b>222-504</b>	48 Links	
	1	Timing Chain	81-71	<b>222-494</b>	48 Links	
	1	Crank Sprocket	88-71	<b>223-355</b>	18 Teeth	
	1	Cam Sprocket	88-71	<b>223-388</b>	36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	88-81	<b>CS-713</b>		
	1	Camshaft	80-79	<b>CS-652</b>	VIN Code "A"	
	1	Camshaft	80-79	<b>CS-652</b>	VIN Code "C"; w/M/T	
	1	Camshaft	78-76	<b>CS-652</b>	VIN Code "A"	
	1	Camshaft	75-71	<b>CS-652</b>		
	12	Lifter	88-71	<b>HT-2011</b> Std Only	Hyd.	
12	Lifter, Bulk	88-71	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117		
1	Prelube	88-71	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam/Lifter Kit	88-81	<b>KC-713</b>	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	80-79	<b>KC-652</b>	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	80-79	<b>KC-652</b>	VIN Code "C"; w/M/T; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	78-76	<b>KC-652</b>	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	75-71	<b>KC-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B		
1	Cam/Lifter/Timing Kit	88-82	<b>KCT-713A</b>	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) KT3-504S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	81	<b>KCT-713</b>	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) KT3-494S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	80-79	<b>KCT-652</b>	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	80-79	<b>KCT-652</b>	VIN Code "C"; w/M/T; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	78-76	<b>KCT-652</b>	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	75-71	<b>KCT-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B		
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Push Rod	88-81	<b>RP-3180</b>	9.6800" O.A.L.		
12	Push Rod	80-75	<b>RP-3171</b>	9.5940" O.A.L.		
12	Push Rod	74-72	<b>RP-3171</b>	w/o rocker arm shaft; 9.5940" O.A.L.		
12	Push Rod	74-72	<b>RP-3163</b>	w/rocker arm shaft; 9.6560" O.A.L.		
12	Push Rod	71	<b>RP-3163</b>	9.6560" O.A.L.		
12	Push Rod, Bulk	88-81	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Arm Assy.	88-75	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm w/o rocker arm shaft; Incl. 2-arms, 2-pivots & 1-bridge;		
6	Arm Assy.	74-72	<b>R-905</b>	Stamped rocker arm		
6	Arm Assy., Bulk	88-75	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32		
6	Arm Assy., Bulk	74-72	<b>R-905B</b>	w/o rocker arm shaft; Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32		
12	Arm	88-75	<b>R-905A</b>	Stamped rocker arm		
12	Arm	74-72	<b>R-905A</b>	w/o rocker arm shaft; Stamped rocker arm		
12	Arm	74-72	<b>R-864</b>	w/rocker arm shaft; Cast iron		
12	Arm	71	<b>R-864</b>	Cast iron		
6	Bridge	88-72	<b>MR-1840</b>			
6	Pivot	88-75	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge		

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**11 4.2L 258 OHV L6, 3.75" Bore 1988-71**  
 (cont.) VIN Codes "A" 1971-79, "B" 1971, "C" 1976-88

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
12	Pivot	88-75	MR-1839	Pivot only
6	Pivot	74-72	MR-1909	w/o rocker arm shaft; Incl. 2-pivots & 1-bridge
12	Pivot	74-72	MR-1839	w/o rocker arm shaft; Pivot only
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	88-81	V-2205 Std Only	1 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	80-74	V-2023 Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	73-71	V-2023 Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Intake	88-81	V-2206 Std Only	1 groove; Chrome plated stem; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	80-74	V-1981 Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	73-71	V-1981 Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	88-71	VG-5062	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	88-78	VS-743	1.9900" Free Height
12	Spring	77	VS-666	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	77	VS-743	w/Rotators; 1.9900" Free Height
12	Spring	76	VS-743	1.9900" Free Height
12	Spring	75	VS-666	w/damper; 2.2600" Free Height
12	Spring	74	VS-666	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	73-71	VS-666	w/damper; 2.2600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	88-71	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	88-71	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	88-71	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	88-71	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	88-71	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	88-71	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	88-81	VK-138	1 groove; Square cut key groove
12	Keeper	88-81	VK-138R	1 groove; Square cut key groove; Hardened
12	Keeper	80-75	VK-174	4 groove
12	Keeper	80-75	VK-174R	4 groove; Hardened
12	Keeper	74-73	VK-115	1 groove; Square cut key groove
12	Keeper	74-73	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper	74-73	VK-174	4 groove
24	Keeper	74-73	VK-174R	4 groove; Hardened
24	Keeper	72-71	VK-138	1 groove; Square cut key groove
24	Keeper	72-71	VK-138R	1 groove; Square cut key groove; Hardened
24	Keeper	72-71	VK-174	4 groove
24	Keeper	72-71	VK-174R	4 groove; Hardened
12	Keeper, Bulk	88-81	VK-138B	1 groove; Square cut key groove; Carton of 1000
12	Keeper, Bulk	74-73	VK-115B	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	72-71	VK-138B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	88-71	259-103C	.015"; ID 1.030"; Carton of 100
12	Spring Insert	88-71	259-103B	.030"; ID 1.030"; Carton of 100
12	Spring Insert	88-71	259-103BRS	.030"; ID 1.030"; Carton of 500
12	Spring Insert	88-71	259-103A	.060"; ID 1.030"; Carton of 100
12	Spring Insert	88-71	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	88-80	470NP Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	88-80	470AP Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston	79	470NP Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	79	470AP Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep

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**4.2L 258 OHV L6, 3.75" Bore 1988-71 11**  
**VIN Codes "A" 1971-79, "B" 1971, "C" 1976-88 (cont.)**

QTY		PISTON (cont.)		PART NO.	DESCRIPTION
		YEARS			
6	Cast Piston	79		<b>456NP</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	79		<b>456P</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	78-77		<b>456NP</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	78-77		<b>456P</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	76-71		<b>409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	88-80		<b>W470NP</b> Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston - Individual	88-80		<b>W470AP</b> * Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	79		<b>W470NP</b> Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston - Individual	79		<b>W470AP</b> * Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	79		<b>W456NP</b> * Std Only	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston - Individual	79		<b>W456P</b> Std-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston - Individual	78-77		<b>W456NP</b> * Std Only	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston - Individual	78-77		<b>W456P</b> Std-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston - Individual	76-71		<b>W409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
1	Cast Piston Set w/Prem. Rings	88-80		<b>6K470NP30</b> 30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
1	Cast Piston Set w/Prem. Rings	79		<b>6K470NP30</b> 30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
QTY		RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-71		<b>E-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	88-71		<b>E-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	88-71		<b>WE-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	88-71		<b>WE-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY		SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	88-71		<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-71		<b>4289M</b> Std-10-20-30-40-60	
1	Rod Set	88-71		<b>6-3310CPA</b> Std-1-10-20-30-40-50-60	
6	Rod Pair	88-71		<b>3310CPA</b> Std-1-2-10-20-30-40-50-60	
1	Cam Set	88-71		<b>1244M</b> Std-10	
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	88-83		<b>224-41198</b>	Replaces pump w/cover having tab & slotted hole
1	Oil Pump	82-80		<b>224-43428</b>	Exc. Eagle; Incl. pump & screen
1	Oil Pump	82-71		<b>224-41199</b>	Replaces pump w/o cover having tab & slotted hole
1	Oil Pump	79-71		<b>224-43428</b>	Incl. pump & screen
1	Pump Repair Kit	88-83		<b>224-51198</b>	Use w/pump having cover w/tab & slotted hole
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	88-86		<b>260-1193</b>	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-81		<b>260-1134</b>	Premium valve stem seals incl.
1	Kit Gasket Set	80-71		<b>260-1007</b>	Premium valve stem seals incl.
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	88-71		<b>381-8000</b>	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Engs.
		<b>RE-RING KIT</b>			
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	88-86	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-860</b> <b>205-860M</b>	<b>205-360</b> <b>205-360M</b>

**BLOCK**

**BLOCK**

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# AMC

## 11 4.2L 258 OHV L6, 3.75" Bore 1988-71

(cont.) VIN Codes "A" 1971-79, "B" 1971, "C" 1976-88

K I T S	RE-RING KIT (cont.)			PREMIUM	ECONOMY
	YEARS	DESCRIPTION		KIT NO.	KIT NO.
	85-81	Premium valve stem seals incl.	Re-ring	205-716	205-216
			Re-ring w/Mains	205-716M	205-216M
	80-71	Premium valve stem seals incl.	Re-ring	205-610	205-110
			Re-ring w/Mains	205-610M	205-110M
	OVERHAUL KIT			PREMIUM	ECONOMY
	YEARS	DESCRIPTION		KIT NO.	KIT NO.
	88-86	VIN Code "C"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.	Block	BK-6197	----
	88-86	VIN Code "C"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Block w/Pump & Freeze Plugs	BKP-6197	----
88-86	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master w/o Pistons	MK-860C	MK-360C	
88-86	VIN Code "C"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master	MKP-860C	MKP-360C	

## 12 4.7L 287 OHV V8, 3.75" Bore 1966-63

VIN Codes "H" 1966, "N" 1966, "T" 1966

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	66-65	222-349	5/8" wide; 62 Links
	1	Crank Sprocket	66-65	223-281	Use w/5/8" wide chain; 23 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter	66-63	HT-2011 Std Only	Hyd.
	16	Lifter, Bulk	66-63	HT-2011B Std Only	Hyd.; Carton of 117
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod	66-63	RP-3083	8.6870" O.A.L.
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	66-63	V-2023 Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
8	Intake	66-63	V-1981 Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
16	Spring	66-63	VS-666	w/damper; 2.2600" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	66-63	ST-2011	No tools req'd.; Positive type; Rubber/PTFE	
16	Valve Stem Seal Bulk	66-63	ST-2011BC	No tools req'd.; Positive type; Carton of 100; Rubber/PTFE	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Exh.	66-63	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth	
8	Exh.	66-63	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth	
8	Int.	66-63	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth	
8	Int.	66-63	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	66-63	VK-138	1 groove; Square cut key groove	
32	Keeper	66-63	VK-138R	1 groove; Square cut key groove; Hardened	
32	Keeper	66-63	VK-174	4 groove	
32	Keeper	66-63	VK-174R	4 groove; Hardened	
32	Keeper, Bulk	66-63	VK-138B	1 groove; Square cut key groove; Carton of 1000	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	66-63	E-240K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	66-63	E-240X Std-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	66-63	WE-240K Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	66-63	WE-240X Std-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	66-63	SL-19M Std Only	3/32" wall, must be cut to correct length	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	66-63	4010M Std-10-20		
8	Rod Pair	66-63	2230CP Std-10-20		

VIN Codes "C" 1966-67, "D" 1966-67, "H" 1966-69, "M" 1968-69, "N" 1966-69, "U" 1967

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-66	<b>KT3-349S</b>	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	69-66	<b>222-349</b>	5/8" wide; 62 Links
1	Crank Sprocket	69-66	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	69-66	<b>223-412</b>	Use w/5/8" wide chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-66	<b>CS-646</b>	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	69-66	<b>CS-1026R</b>	
16	Lifter	69-66	<b>HT-2011</b> Std Only	Hyd.
16	Lifter	69-66	<b>HT-2011R</b> Std Only	Hyd. Hi-Rev
16	Lifter, Bulk	69-66	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
1	Prelube	69-66	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-66	<b>KC-646</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	69-66	<b>KC-1026R</b>	
1	Cam/Lifter/Timing Kit	69-66	<b>KCT-646</b>	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	69-66	<b>R-853</b>	Incl. arm, ball & nut
16	Arm	69-66	<b>R-853A</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-66	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
8	Intake	69-66	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	69-66	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-66	<b>VS-703</b>	2.0560" Free Height
16	Spring, Bulk	69-66	<b>VS-703B</b>	Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-66	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	69-66	<b>ST-2002BC</b>	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-66	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
8	Exh.	69-66	<b>245-1500-1</b> Std Only	
8	Int.	69-66	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	69-66	<b>245-1875-1</b> Std Only	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-66	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	69-66	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper	69-66	<b>VK-174</b>	4 groove
32	Keeper	69-66	<b>VK-174R</b>	4 groove; Hardened
32	Keeper, Bulk	69-66	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-66	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	69-66	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	69-66	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	69-66	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-66	<b>WE-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-66	<b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	69-66	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-66	<b>5037M</b> Std-1-10-20-30	Std-1-10-20-30-40
1	Rod Set	69-66	<b>8-3310CPA</b>	
8	Rod Pair	69-66	<b>3310CPA</b>	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

(continued on next page)

# AMC

## 13 4.7L 290 OHV V8, 3.75" Bore 1969-66

(cont.) VIN Codes "C" 1966-67, "D" 1966-67, "H" 1966-69, "M" 1968-69, "N" 1966-69, "U" 1967

<b>BLOCK</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>BLOCK</b>
	1	(cont.) Cam Set	69-66	1401M Std Only		
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Pump Repair Kit	69-66	224-51285		
	1	Screen Assy.	69-66	224-14161		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	69-66	260-1010	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	69-66	260-4008			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	69-66	381-8001			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
69-66	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring		205-617	205-117

## 14 5.0L 304 OHV V8, 3.75" Bore 1979-70

VIN Codes "H" 1970-79, "I" 1970-71, "M" 1971-74

<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>VALVE TRAIN</b>
	1	3 Piece Set	79-70	KT3-369S	1/2" wide timing sprocket teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) 222-369, (1) 223-512, (1) 223-515	
	1	3 Piece Set	79-70	KT3-349S	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412	
	1	Timing Chain	79	222-369	1/2" wide; 62 Links	
	1	Timing Chain	79-70	222-349	5/8" wide; 62 Links	
	1	Crank Sprocket	79	223-515	Use w/1/2" wide chain; 23 Teeth	
	1	Crank Sprocket	79-70	223-281	Use w/5/8" wide chain; 23 Teeth	
	1	Cam Sprocket	79	223-512	Use w/1/2" wide chain; 46 Teeth	
	1	Cam Sprocket	79-70	223-412	Use w/5/8" wide chain; 46 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	79	CS-828 +	When depleted use CS-646	
	1	Camshaft	79-70	CS-646		
	1	Performance Cam	79-70	CS-1026R	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees	
	16	Lifter	79-70	HT-2011 Std Only	Hyd.	
	16	Lifter	79-70	HT-2011R Std Only	Hyd. Hi-Rev	
	16	Lifter, Bulk	79-70	HT-2011B Std Only	Hyd.; Carton of 117	
1	Prelube	79-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam/Lifter Kit	79	KC-828 +	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B; When depleted use KC-646		
1	Cam/Lifter Kit	79-70	KC-646	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	79-70	KC-1026R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B		
1	Cam/Lifter/Timing Kit	79-70	KCT-646A	Hyd.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) CS-646, (16) HT-2011, (1) KT3-369S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	79-70	KCT-646	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B		
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Push Rod	79-70	RP-3212R	Chrome-Moly; 7.7900" O.A.L.		
16	Push Rod	79-70	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.		
16	Push Rod	79-70	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.		
16	Push Rod	79-70	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.		
16	Push Rod	79-70	RP-3093	7.7940" O.A.L.		
16	Push Rod, Bulk	79-70	BRP-3093	Carton of 100; 7.7940" O.A.L.		
16	Push Rod, Bulk	79-70	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.		
16	Push Rod, Bulk	79-70	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Arm Assy.	79-73	R-875	Incl. 2-arms, 2-pivots & 1-bridge		
16	Arm Assy.	72-70	R-853	Incl. arm, ball & nut		
8	Arm Assy., Bulk	79-73	R-875B	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32		
16	Arm	79-73	R-875A			
16	Arm	72-70	R-853A			
8	Bridge	79-70	MR-1840			
16	Pivot	76-70	MR-1839	Pivot only		

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VALVE TRAIN		VALVE		BLOCK	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exhaust	79-73	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
8	Exhaust	72-70	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
8	Intake	79-73	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
8	Intake	72-70	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Guide	79-70	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Spring	79-78	<b>VS-743</b>	1.9900" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Valve Stem Seal	79-70	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate	
16	Valve Stem Seal	71-70	<b>MV-1771C</b>	Umbrella type; Polyacrylate	
16	Valve Stem Seal Bulk	79-70	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
16	Valve Stem Seal Bulk	71-70	<b>MV-1771</b>	Umbrella type; Carton of 100; Polyacrylate	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exh.	79-70	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth	
8	Exh.	79-70	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth	
8	Int.	79-70	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth	
8	Int.	79-70	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
32	Keeper	79-73	<b>VK-174</b>	4 groove	
32	Keeper	79-73	<b>VK-174R</b>	4 groove; Hardened	
32	Keeper	72-70	<b>VK-138</b>	1 groove; Square cut key groove	
32	Keeper	72-70	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened	
32	Keeper	72-70	<b>VK-174</b>	4 groove	
32	Keeper	72-70	<b>VK-174R</b>	4 groove; Hardened	
32	Keeper, Bulk	72-70	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	79-70	<b>259-102C</b>	.015"; Carton of 100	
16	Spring Insert	79-70	<b>259-102B</b>	.030"; Carton of 100	
16	Spring Insert	79-70	<b>259-102A</b>	.060"; Carton of 100	
16	Spring Insert	79-70	<b>259-102ARS</b>	.060"; Carton of 500	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Cast Piston	79-70	<b>1079P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .130" deep x 3.320" dia. - 8.4:1 C.R.	
8	Cast Piston - Individual	79-70	<b>W1079P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .130" deep x 3.320" dia. - 8.4:1 C.R.	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	79-70	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	79-70	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	79-70	<b>WE-240K</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	79-70	<b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16	
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Repair Sleeve	79-70	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	79-70	<b>5037M</b> Std-1-10-20-30		
1	Rod Set	79-70	<b>8-3310CPA</b> Std-1-10-20-30-40		
8	Rod Pair	79-70	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60		
1	Cam Set	79-70	<b>1401M</b> Std Only		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Pump Repair Kit	79-70	<b>224-51285</b>		
1	Screen Assy.	79-78	<b>224-14161</b>	Exc. Pacer	
1	Screen Assy.	77-73	<b>224-14161</b>		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	79-70	<b>260-1010</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	79-70	<b>260-4008</b>		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	79-70	<b>381-8001</b>		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>205-617</b>	<b>205-117</b>
79-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring			

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## 14 5.0L 304 OHV V8, 3.75" Bore 1979-70

(cont.) VIN Codes "H" 1970-79, "I" 1970-71, "M" 1971-74

K I T S	OVERHAUL KIT			PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
	79-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives	Master Master w/o Pistons	MKP-617A MK-617A	MKP-117A MK-117A	
	79-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives	Master Master w/o Pistons	MKP-617C MK-617C	MKP-117C MK-117C	

## 15 5.3L 327 OHV V8 (Vigilante), 4" Bore 1966-56

VIN Codes "J" 1966, "K" 1966, "P" 1966, "Q" 1966, "U" 1966, "W" 1966

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E  T R A I N
		1	Timing Chain	66-57	222-349	
	1	Crank Sprocket	66-57	223-281	Use w/5/8" wide chain; 23 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	16	Lifter	66-61	HT-2011 Std Only	Hyd.	
	16	Lifter	60-57	HT-879 Std Only	Hyd.	
	16	Lifter	57	AT-2084 Std Only	Dumbbell shaped mech.	
	16	Lifter, Bulk	66-61	HT-2011B Std Only	Hyd.; Carton of 117	
	16	Lifter, Bulk	57	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	66-61	RP-3083	8.6870" O.A.L.	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	8	Exhaust	66-59	V-2023 Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
	8	Intake	66-59	V-1981 Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	16	Spring	66-57	VS-666	w/damper; 2.2600" Free Height	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
	16	Valve Stem Seal	66-63	ST-2011	Positive type; Rubber/PTFE	
	16	Valve Stem Seal	62-59	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE	
	16	Valve Stem Seal	58-57	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE	
	16	Valve Stem Seal Bulk	66-63	ST-2011BC	Positive type; Carton of 100; Rubber/PTFE	
	16	Valve Stem Seal Bulk	62-59	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	16	Valve Stem Seal Bulk	58-57	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	8	Exh.	66-57	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth	
	8	Exh.	66-57	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth	
	8	Int.	66-57	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth	
	8	Int.	66-57	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth	
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	32	Keeper	66-59	VK-174	4 groove	
	32	Keeper	66-59	VK-174R	4 groove; Hardened	
	32	Keeper	58-57	VK-115	1 groove; Square cut key groove	
	32	Keeper	58-57	VK-115R	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	58-57	VK-115B	1 groove; Square cut key groove; Carton of 1000	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	66-57	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16	
	1	Premium Set	66-57	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	66-57	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	66-57	WE-251K Std-20-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	66-57	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	66-57	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16	
	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
	8	Repair Sleeve	66-57	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
	8	Repair Sleeve	66-57	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	66-56	4010M Std-10-20		
	8	Rod Pair	66-56	2230CP Std-10-20		



VIN Codes "J" 1967, "K" 1967, "Q" 1967, "R" 1967, "S" 1968-69, "T" 1968-69, "V" 1967, "W" 1967, "X" 1967-69, "Z" 1967-69

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	<b>KT3-349S</b>	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	69-67	<b>222-349</b>	5/8" wide; 62 Links
1	Crank Sprocket	69-67	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	69-67	<b>223-412</b>	Use w/5/8" wide chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-67	<b>CS-646</b>	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	69-67	<b>CS-1026R</b>	
16	Lifter	69-67	<b>HT-2011</b> Std Only	Hyd.
16	Lifter	69-67	<b>HT-2011R</b> Std Only	Hyd. Hi-Rev
16	Lifter, Bulk	69-67	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
1	Prelube	69-67	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-67	<b>KC-646</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	69-67	<b>KC-1026R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-67	<b>KCT-646</b>	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	69-67	<b>R-853</b>	Incl. arm, ball & nut
16	Arm	69-67	<b>R-853A</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-67	<b>V-1830</b> Std Only	1 groove; 1.6250" Head Dia., .3710" Stem Dia., 4.9180" O.A.L.
8	Intake	69-67	<b>V-1831</b> Std Only	1 groove; 2.0150" Head Dia., .3715" Stem Dia., 4.8990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	69-67	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-67	<b>VS-703</b>	2.0560" Free Height
16	Spring, Bulk	69-67	<b>VS-703B</b>	Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-67	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	69-67	<b>ST-2002BC</b>	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-67	<b>245-1687-2N</b> Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	69-67	<b>245-1687-2</b> Std Only	
8	Int.	69-67	<b>245-2000-1</b> Std Only	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-67	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	69-67	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-67	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-67	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	69-67	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	69-67	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	69-67	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	69-67	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	69-67	<b>E-301K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	69-67	<b>E-301X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-67	<b>WE-301K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-67	<b>WE-301X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-67	<b>5037M</b> Std-1-10-20-30	40-50-60
1	Rod Set	69-67	<b>8-3310CPA</b> Std-1-10-20-30-40	
8	Rod Pair	69-67	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60	
1	Cam Set	69-67	<b>1401M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	69-67	<b>224-51285</b>	
1	Screen Assy.	69-67	<b>224-14161</b>	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# AMC

## 16 5.6L 343 OHV V8, 4.08" Bore 1969-67

(cont.) VIN Codes "J" 1967, "K" 1967, "Q" 1967, "R" 1967, "S" 1968-69, "T" 1968-69, "V" 1967, "W" 1967, "X" 1967-69, "Z" 1967-69

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	69-67	260-1151	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	69-67	260-4008		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	69-67	381-8001		
RE-RING KIT				PREMIUM	ECONOMY
YEARS	DESCRIPTION			KIT NO.	KIT NO.
69-67	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring Re-ring w/Mains	205-715 205-715M	205-215 205-215M

## 17 5.8L 352 OHV V8 (Packard), 4" Bore 1956

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	56	222-349	5/8" wide; 62 Links
1	Crank Sprocket	56	223-281	Use w/5/8" wide chain; 23 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	56	HT-879 Std Only	Hyd.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	56	VK-138	1 groove; Square cut key groove
32	Keeper	56	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	56	VK-138B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	56	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	56	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	56	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	56	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	56	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	56	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	56	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	56	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"

## 18 5.9L 360 OHV V8, 4.08" Bore 1978-70

VIN Codes "H" 1971, "N" 1970-78, "P" 1970-76

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	78-70	KT3-349S	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	78-70	222-349	5/8" wide; 62 Links
1	Crank Sprocket	78-70	223-281	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	78-70	223-412	Use w/5/8" wide chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	78-70	CS-646	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	78-70	CS-1026R	
16	Lifter	78-70	HT-2011 Std Only	Hyd.
16	Lifter	78-70	HT-2011R Std Only	Hyd. Hi-Rev
16	Lifter, Bulk	78-70	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	78-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	78-70	KC-646	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	78-70	KC-1026R	
1	Cam/Lifter/Timing Kit	78-70	KCT-646	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	78-70	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	78-70	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	78-70	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	78-70	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	78-70	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	78-70	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	78-70	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	78-70	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	78-74	R-875	Incl. 2-arms, 2-pivots & 1-bridge
16	Arm Assy.	73-70	R-853	Incl. arm, ball & nut

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**5.9L 360 OHV V8, 4.08" Bore 1978-70 18**  
 VIN Codes "H" 1971, "N" 1970-78, "P" 1970-76 (cont.)

<b>QTY</b>	<b>ROCKER PARTS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy., Bulk	78-74	<b>R-875B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32
16	Arm	78-74	<b>R-875A</b>	
16	Arm	73-70	<b>R-853A</b>	
8	Bridge	78-70	<b>MR-1840</b>	
16	Pivot	78-70	<b>MR-1839</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	78-75	<b>V-2024</b> Std Only	4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74-73	<b>V-2024</b> Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74-73	<b>V-1980</b> Std Only	w/Rotators; 1 groove; w/Rotocaps; 1.6800" Head Dia., .3710" Stem Dia., 4.9290" O.A.L.
8	Exhaust	72	<b>V-1830</b> Std Only	Early Eng's.; 1 groove; 1.6250" Head Dia., .3710" Stem Dia., 4.9180" O.A.L.
8	Exhaust	72	<b>V-2024</b> Std Only	Late Eng's.; 4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	71-70	<b>V-1830</b> Std Only	1 groove; 1.6250" Head Dia., .3710" Stem Dia., 4.9180" O.A.L.
8	Exhaust, Bulk	78-75	<b>V-2024B</b> Std Only	4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	74-73	<b>V-2024B</b> Std Only	w/o Rotators; 4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	72	<b>V-2024B</b> Std Only	Late Eng's.; 4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Intake	78-73	<b>V-1979</b> Std Only	4 groove; 2.0260" Head Dia., .3719" Stem Dia., 4.8980" O.A.L.
8	Intake	72-70	<b>V-1831</b> Std Only	1 groove; 2.0150" Head Dia., .3715" Stem Dia., 4.8990" O.A.L.
8	Intake, Bulk	78-73	<b>V-1979B</b> Std Only	4 groove; Carton of 25; 2.0256" Head Dia., .3719" Stem Dia., 4.8976" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	78-70	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	78	<b>VS-743</b>	Exh. & Int.; 1.9900" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	78-70	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	78-70	<b>ST-2002BC</b>	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	78-70	<b>245-1750-3N</b> Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth
8	Exh.	78-70	<b>245-1750-3</b> Std Only	
8	Int.	78-70	<b>245-2125-1</b> Std Only	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	78-75	<b>VK-174</b>	Exh. & Int.; 4 groove
32	Keeper	78-75	<b>VK-174R</b>	Exh. & Int.; 4 groove; Hardened
32	Keeper	74-73	<b>VK-138</b>	Exh.; 1 groove; Square cut key groove
32	Keeper	74-73	<b>VK-138R</b>	Exh.; 1 groove; Square cut key groove; Hardened
32	Keeper	74-73	<b>VK-174</b>	Int.; 4 groove
32	Keeper	74-73	<b>VK-174R</b>	Int.; 4 groove; Hardened
32	Keeper	72-70	<b>VK-138</b>	Exh. & Int.; 1 groove; Square cut key groove
32	Keeper	72-70	<b>VK-138R</b>	Exh. & Int.; 1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	74-73	<b>VK-138B</b>	Exh.; 1 groove; Square cut key groove; Carton of 1000
32	Keeper, Bulk	72-70	<b>VK-138B</b>	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	78-70	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	78-70	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	78-70	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	78-70	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	78-70	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	78-70	<b>362NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	78-70	<b>362NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual	78-70	<b>W362NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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## 18 5.9L 360 OHV V8, 4.08" Bore 1978-70 (cont.) VIN Codes "H" 1971, "N" 1970-78, "P" 1970-76

BLOCK	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK	
	8	Cast Piston - Individual	78-70	<b>W362NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs - 9.0:1 C.R.		
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
	1	Premium Set	78-70	<b>E-301K</b> Std-20-30-40-60	2-5/64, 1-3/16		
	1	Standard Set	78-70	<b>E-301X</b> Std-20-30-40-60	2-5/64, 1-3/16		
	8	Premium Single Cylinder Set	78-70	<b>WE-301K</b> Std-20-30-40-60	2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	78-70	<b>WE-301X</b> Std-20-30-40-60	2-5/64, 1-3/16		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	78-70	<b>5037M</b> Std-1-10-20-30			
	1	Rod Set	78-70	<b>8-3310CPA</b> Std-1-10-20-30-40			
8	Rod Pair	78-70	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60				
1	Cam Set	78-70	<b>1401M</b> Std Only				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Pump Repair Kit	78-70	<b>224-51285</b>				
1	Screen Assy.	78-70	<b>224-14161</b>				
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	78-70	<b>260-1151</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.			
1	Valley Pan Gasket Set	78-70	<b>260-4008</b>				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	78-70	<b>381-8001</b>				
KITS	RE-RING KIT				<i>PREMIUM</i>	<i>ECONOMY</i>	KITS
	YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>	
	78-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-715</b>	<b>205-215</b>	
			Re-ring w/Mains		<b>205-715M</b>	<b>205-215M</b>	
OVERHAUL KIT				<i>PREMIUM</i>	<i>ECONOMY</i>		
YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>		
78-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Block		<b>BK-6198</b>	----		

## 19 6.4L 390 OHV V8, 4.165" Bore 1970-68 VIN Codes "W" 1968-69, "X" 1968-70, "Y" 1970

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	70-68	<b>KT3-349S</b>	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412	
	1	Timing Chain	70-68	<b>222-349</b>	5/8" wide; 62 Links	
	1	Crank Sprocket	70-68	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth	
	1	Cam Sprocket	70-68	<b>223-412</b>	Use w/5/8" wide chain; 46 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	70-68	<b>CS-646</b>		
	1	Performance Cam	70-68	<b>CS-1026R</b>	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees	
	16	Lifter	70-68	<b>HT-2011</b> Std Only	Hyd.	
	16	Lifter	70-68	<b>HT-2011R</b> Std Only	Hyd. Hi-Rev	
16	Lifter, Bulk	70-68	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117		
1	Prelube	70-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	70-68	<b>KC-646</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B		
1	Cam/Lifter Kit	70-68	<b>KC-1026R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B		
1	Cam/Lifter/Timing Kit	70-68	<b>KCT-646</b>	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
16	Push Rod	70	<b>RP-3093</b>	7.7940" O.A.L.		
16	Push Rod, Bulk	70	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
16	Arm Assy.	70-68	<b>R-853</b>	Incl. arm, ball & nut		
16	Arm	70-68	<b>R-853A</b>			
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	70-68	<b>V-1830</b> Std Only	1 groove; 1.6250" Head Dia., .3710" Stem Dia., 4.9180" O.A.L.		
8	Intake	70-68	<b>V-1831</b> Std Only	1 groove; 2.0150" Head Dia., .3715" Stem Dia., 4.8990" O.A.L.		

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**6.4L 390 OHV V8, 4.165" Bore 1970-68 19**  
VIN Codes "W" 1968-69, "X" 1968-70, "Y" 1970 (cont.)

<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	70-68	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	70-68	<b>VS-703</b>	2.0560" Free Height
16	Spring, Bulk	70-68	<b>VS-703B</b>	Carton of 250; 2.0560" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	70-68	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate Umbrella type; Polyacrylate
16	Valve Stem Seal	70-68	<b>MV-1771C</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	70-68	<b>ST-2002BC</b>	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	70-68	<b>MV-1771</b>	Umbrella type; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	70-68	<b>245-1687-2N</b> Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	70-68	<b>245-1687-2</b> Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	70-68	<b>245-1687-3</b> Std Only	1.6925" OD, 1.4375" ID, .2480" Depth
8	Int.	70-68	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	70-68	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	70-68	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	70-68	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	70-68	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	70-68	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	70-68	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	70-68	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	70-68	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	70-68	<b>E-302K30</b> 30-40-60	2-5/64, 1-3/16
1	Standard Set	70-68	<b>E-302X</b> Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	70-68	<b>WE-302K30</b> 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	70-68	<b>WE-302X30</b> 30	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	70	<b>4950M10</b> 10-20-30	
1	Main Set	69-68	<b>5037M</b> Std-1-10-20-30	
1	Cam Set	70-68	<b>1401M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pump Repair Kit	70-68	<b>224-51285</b>	
1	Screen Assy.	70-68	<b>224-14161</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	70-68	<b>260-1151</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	70-68	<b>260-4008</b>	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	70-68	<b>381-8001</b>	

**6.6L 401 OHV V8, 4.165" Bore 1976-71 20**  
VIN Code "Z" 1971-76

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	74-71	<b>KT3-349S</b>	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	76-71	<b>222-349</b>	5/8" wide; 62 Links
1	Crank Sprocket	76-71	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	76-71	<b>223-412</b>	Use w/5/8" wide chain; 46 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	74-71	<b>CS-646</b>	
1	Performance Cam	74-71	<b>CS-1026R</b>	Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 110 Degrees
16	Lifter	74-71	<b>HT-2011</b> Std Only	Hyd.
16	Lifter	74-71	<b>HT-2011R</b> Std Only	Hyd. Hi-Rev
16	Lifter, Bulk	74-71	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
1	Prelube	74-71	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	74-71	<b>KC-646</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	74-71	<b>KC-1026R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1026R, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-71	<b>KCT-646</b>	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B

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## 20 6.6L 401 OHV V8, 4.165" Bore 1976-71

(cont.) VIN Code "Z" 1971-76

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	74-71	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	74-71	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	74-71	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	74-71	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	74-71	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	74-71	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	74-71	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	74-71	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	74	R-875	Incl. 2-arms, 2-pivots & 1-bridge
16	Arm Assy.	73-71	R-853	Incl. arm, ball & nut
8	Arm Assy., Bulk	74	R-875B	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32
16	Arm	74	R-875A	
16	Arm	73-71	R-853A	
8	Bridge	74	MR-1840	
8	Pivot	74	MR-1909	Incl. 2-pivots & 1-bridge
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	74-73	V-2024 Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74-73	V-1980 Std Only	w/Rotators; 1 groove; w/Rotocaps; 1.6800" Head Dia., .3710" Stem Dia., 4.9290" O.A.L.
8	Exhaust	72-71	V-2024 Std Only	4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	74-73	V-2024B Std Only	w/o Rotators; 4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	72-71	V-2024B Std Only	4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Intake	74-73	V-1979 Std Only	4 groove; 2.0260" Head Dia., .3719" Stem Dia., 4.8980" O.A.L.
8	Intake	72-71	V-1831 Std Only	1 groove; 2.0150" Head Dia., .3715" Stem Dia., 4.8990" O.A.L.
8	Intake, Bulk	74-73	V-1979B Std Only	4 groove; Carton of 25; 2.0256" Head Dia., .3719" Stem Dia., 4.8976" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	74-71	VG-5062	Exh. & Int.; .3735" ID, 2.3800" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	74-71	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	74-71	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	74-71	245-1750-3N Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth
8	Exh.	74-71	245-1750-3 Std Only	1.7555" OD, 1.4375" ID, .2160" Depth
8	Int.	74-71	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	74-73	VK-115	Exh.; 1 groove; Square cut key groove
16	Keeper	74-73	VK-115R	Exh.; 1 groove; Square cut key groove; Hardened
16	Keeper	74-73	VK-174	Int.; 4 groove
16	Keeper	74-73	VK-174R	Int.; 4 groove; Hardened
32	Keeper	72-71	VK-138	Exh. & Int.; 1 groove; Square cut key groove
32	Keeper	72-71	VK-138R	Exh. & Int.; 1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	74-73	VK-115B	Exh.; 1 groove; Square cut key groove; Carton of 1000
32	Keeper, Bulk	72-71	VK-138B	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	74-71	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	74-71	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	74-71	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	74-71	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	74-71	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	74-71	415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
8	Cast Piston - Individual	74-71	W415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
8	Powerforged	71	L-2380F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.505" CD, 1.0007" Pin Dia., Recessed Head .170" deep w/4 valve reliefs. DurOshield® skirt coated piston.

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**6.6L 401 OHV V8, 4.165" Bore 1976-71 20**  
 VIN Code "Z" 1971-76 (cont.)

BLOCK	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Forged Piston - Individual	71	WL-2380F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.505" CD, 1.0007" Pin Dia., Recessed Head .170" deep w/4 valve reliefs. DurOshield® skirt coated piston.
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	74-71	E-302K30 30-40-60	2-5/64, 1-3/16
	1	Standard Set	74-71	E-302X Std-30-40	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	74-71	WE-302K30 30	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	74-71	WE-302X30 30	2-5/64, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	74-71	4950M10 10-20-30		
1	Cam Set	74-71	1401M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Pump Repair Kit	74-71	224-51285		
1	Screen Assy.	74-71	224-14161		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	76-71	260-1151	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	76-71	260-4008		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	76-71	381-8001		

Engine Finding Index				
Engine	For Year	Line No.	Engine	For Year Line No.
1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1974-73	1	2.0L 1986cc SOHC Diesel L5 76.5mm Bore (10 Valve)	1982-79 8
1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) (VW Eng.)	1983-82	2	2.0L 1986cc SOHC Turbo-Diesel L5 76.5mm Bore (10 Valve)	1983 9
1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve) (VW Eng.)	1983-82	3	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve)	1985-78 10
1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	1980-75	4	2.1L 2144cc SOHC Turbo L5 79.5mm Bore (10 Valve)	1985-80 11
1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	1983-81	5	2.2L 2226cc SOHC L5 81mm Bore (10 Valve)	1988-84 12
1.8L 1780cc SOHC L4 81mm Bore (8 Valve) (VW Eng.)	1987-84	6	2.2L 2226cc DOHC Turbo L5 81mm Bore (20 Valve)	1990 13
2.0L 1984cc SOHC L4 82.5mm Bore (8 Valve) (VW Eng.)	1990-88	7	2.2L 2226cc SOHC Turbo L5 81mm Bore (10 Valve)	1990-86 14
			2.3L 2309cc SOHC L5 82.5mm Bore (10 Valve)	1990-88 15
			2.3L 2309cc DOHC L5 82.5mm Bore (20 Valve)	1990-89 16

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
CN	2.0L 1986cc SOHC Diesel L5 76.5mm Bore (10 Valve)	8	WK	2.1L 2144cc SOHC Turbo L5 79.5mm Bore (10 Valve)	11
CR	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) (VW Eng.)	2	WT	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	5
CY	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve) (VW Eng.)	3	WU	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve)	10
DE	2.0L 1986cc SOHC Turbo-Diesel L5 76.5mm Bore (10 Valve)	9	WX	2.1L 2144cc SOHC Turbo L5 79.5mm Bore (10 Valve)	11
JK	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) (VW Eng.)	2	XV	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
JN	1.8L 1780cc SOHC L4 81mm Bore (8 Valve) (VW Eng.)	6	XW	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
JT	2.2L 2226cc SOHC L5 81mm Bore (10 Valve)	12	XY	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
KH	2.1L 2144cc SOHC Turbo L5 79.5mm Bore (10 Valve)	11	XZ	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
KX	2.2L 2226cc SOHC L5 81mm Bore (10 Valve)	12	YG	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	4
KZ	2.2L 2226cc SOHC L5 81mm Bore (10 Valve)	12	YH	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	4
MC	2.2L 2226cc DOHC Turbo L5 81mm Bore (20 Valve)	13	YK	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	4
MC	2.2L 2226cc SOHC Turbo L5 81mm Bore (10 Valve)	14	YM	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	4
MG	1.8L 1780cc SOHC L4 81mm Bore (8 Valve) (VW Eng.)	6	ZD	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
NF	2.2L 2226cc SOHC L5 81mm Bore (10 Valve)	12	ZE	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve) (VW Eng.)	1
NF	2.3L 2309cc SOHC L5 82.5mm Bore (10 Valve)	15	3A	2.0L 1984cc SOHC L4 82.5mm Bore (8 Valve) (VW Eng.)	7
NG	2.3L 2309cc SOHC L5 82.5mm Bore (10 Valve)	15	3B	2.2L 2226cc DOHC Turbo L5 81mm Bore (20 Valve)	13
WD	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve)	10	7A	2.3L 2309cc DOHC L5 82.5mm Bore (20 Valve)	16
WE	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve)	10			

### 1 1.5L 1471cc SOHC L4 (8 Valve), 76.5mm Bore (VW Eng.) 1974-73 Eng. Codes "XV" 1974, "XW" 1974, "XY" 1974, "XZ" 1974, "ZD" 1973, "ZE" 1973

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	74-73	222-17	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	74-73	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	74-73	ST-2039	Positive type; Rubber
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	74-73	68099YA	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	74-73	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	74-73	1726M	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	74-73	381-8036	

### 2 1.6L 1588cc SOHC Diesel L4 (8 Valve), 76.5mm Bore (VW Eng.) 1983-82 Eng. Codes "CR" 1982, "JK" 1983

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	83-82	222-43	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	83-82	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	83-82	ST-2039	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	83-82	VK-204	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	83-82	E-493KC Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM
4	Premium Single Cylinder Set	83-82	WE-493KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-82	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	83-82	4-68150CP Std Only	

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1.6L 1588cc SOHC Diesel L4 (8 Valve), 76.5mm Bore (VW Eng.) 1983-82 <b>2</b>					
Eng. Codes "CR" 1982, "JK" 1983 (cont.)					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	(cont.) Aux. Shaft Set	83-82	1726M		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	83-82	381-8036		
1.6L 1588cc SOHC Turbo-Diesel L4 (8 Valve), 76.5mm Bore (VW Eng.) 1983-82 <b>3</b>					
Eng. Code "CY" 1982-83					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	83	222-43		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	83	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	83	ST-2039	Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	83	VK-204	3 groove; w/.3125 Stem Dia.	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	83	E-493KC Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM
	4	Premium Single Cylinder Set	83	WE-493KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
	1	Main Set	83	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	83	4-68150CP Std Only		
1	Aux. Shaft Set	83	1726M		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	83-82	381-8036		
1.6L 1588cc SOHC L4 (8 Valve), 79.5mm Bore (VW Eng.) 1980-75 <b>4</b>					
Eng. Codes "YG" 1975-80, "YH" 1975-80, "YK" 1976, "YM" 1975-76					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	80-75	222-17		
1	Timing Belt & Tensioner Set	80-75	BTS-17		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	80-75	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	80-75	ST-2039	Positive type; Rubber	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	4	Pin Bushing	80-75	68099YA	
	1	Main Set	80-75	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	80-75	1726M		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	80-75	381-8036		
1.7L 1715cc SOHC L4 (8 Valve), 79.5mm Bore (VW Eng.) 1983-81 <b>5</b>					
Eng. Code "WT" 1981-83					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	83-81	222-17		
1	Timing Belt & Tensioner Set	83-81	BTS-17		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	83-81	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	83-81	ST-2039	Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	83-82	VK-204	3 groove; w/.3125 Stem Dia.	
16	Keeper	81	VK-204	From Chassis No. 81B-136-916; 3 groove; w/.3125 Stem Dia.	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Pin Bushing	83-81	68099YA		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	83-81	6834M Std-.25MM	w/std. length flange brg.	
1	Aux. Shaft Set	83-81	1726M		

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## 6 1.8L 1780cc SOHC L4 (8 Valve), 81mm Bore (VW Eng.) 1987-84 Eng. Codes "JN" 1984, "MG" 1985-87

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	87-84	222-17		
1	Timing Belt Tensioner	87-84	222-148BT		
1	Timing Belt & Tensioner Set	87-84	BTS-17		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	86-84	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	85-84	ST-2039	Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	86-84	VK-204	3 groove; w/.3125 Stem Dia.	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Pin Bushing	87-84	4469Y		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	86-84	E-494K Std Only	1-1.50MM, 1-1.75MM, 1-3.00MM	
1	Premium Set	86-84	E-494KC Std Only	1-1.50MM, 1-1.75MM, 1-3.00MM	
4	Premium Single Cylinder Set	86-84	WE-494KC Std Only	1-1.50MM, 1-1.75MM, 1-3.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	87-84	6834M Std-.25MM	w/std. length flange brg.	
1	Rod Set	87-84	4-68150CP Std Only		
1	Aux. Shaft Set	87-84	1726M		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	84	224-41912		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	87-84	260-1299	Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.	
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION		205-6072	----
86-84	Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.	Re-ring			
KITS	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION		MK-6072A	----
86-84	Timing belt, cam kit, oil pump & freeze plugs not incl.; Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.; w/std. length flange brg.	Master w/o Pistons			

## 7 2.0L 1984cc SOHC L4 (8 Valve), 82.5mm Bore (VW Eng.) 1990-88 Eng. Code "3A" 1988-90

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-17	
1	Timing Belt Tensioner	90-88	222-148BT	
1	Timing Belt & Tensioner Set	90-88	BTS-17	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-88	V-4520X Std Only	1.2990" Head Dia., .3127" Stem Dia., 3.5910" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-88	VG-1420T	Exh. & Int.; .2765" ID, 1.5950" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-88	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7286M Std-.25MM	
1	Rod Set	90-88	4-4465P Std-.25MM	w/oil hole

## 8 2.0L 1986cc SOHC Diesel L5 (10 Valve), 76.5mm Bore 1982-79 Eng. Code "CN" 1979-82

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
10	Guide	82-79	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
5	Int.	82-79	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	82-80	VK-204	3 groove; w/.3125 Stem Dia.
20	Keeper	79	VK-204	From Chassis No. 43B-036-373; 3 groove; w/.3125 Stem Dia.

2.0L 1986cc SOHC Turbo-Diesel L5 (10 Valve), 76.5mm Bore 1983 9				
Eng. Code "DE" 1982-85				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
10	Guide	83	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
10	Valve Stem Seal	83	ST-2039	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
5	Int.	83	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	83	VK-204	3 groove; w/.3125 Stem Dia.
2.1L 2144cc SOHC L5 (10 Valve), 79.5mm Bore 1985-78 10				
Eng. Codes "WD" 1978-83, "WE" 1978-85, "WU" 1984-85				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85	222-B127	
1	Timing Belt	84	222-B127	From Ser. No. 44D-200-001
1	Timing Belt	83	222-B127	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
10	Guide	85-78	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
10	Valve Stem Seal	85-78	ST-2039	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	85-84	VK-205	4 groove
20	Keeper	85-84	VK-205R	4 groove; Hardened
20	Keeper	83-82	VK-204	3 groove; w/.3125 Stem Dia.
20	Keeper	81	VK-204	From Chassis No. 43B-036-373; 3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-78	E-806KC Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	83-78	5-68095CP Std Only	
5	Rod Pair	85-84	68150CP Std Only	
2.1L 2144cc SOHC Turbo L5 (10 Valve), 79.5mm Bore 1985-80 11				
Eng. Codes "KH" 1980-85, "WK" 1980-83, "WX" 1983-85				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85-82	222-B127	5000
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
10	Guide	85	VG-705	To Chassis No. 43A-220-0000; Bronze; .3150" ID, 1.4400" O.A.L.
10	Guide	84-80	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
10	Valve Stem Seal	85-80	ST-2039	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	85-82	VK-204	3 groove; w/.3125 Stem Dia.
20	Keeper	81	VK-204	3 groove; w/.3125 Stem Dia.
20	Keeper	80	VK-204	From Eng. No. 007-924; 3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-80	E-806KC Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	83-80	5-68095CP Std Only	
5	Rod Pair	85-84	68150CP Std Only	
2.2L 2226cc SOHC L5 (10 Valve), 81mm Bore 1988-84 12				
Eng. Codes "JT" 1984-87, "KX" 1984-87, "KZ" 1985-88, "NF" 1987				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-84	222-B127	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
5	Exh.	87-84	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	87-85	VK-204	3 groove; w/.3125 Stem Dia.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	87-84	68150CP Std Only	

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## 13 2.2L 2226cc DOHC Turbo L5 (20 Valve), 81mm Bore 1990 Eng. Codes "AAN" 1992-97, "MC" 1995-97, "3B" 1990-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B127	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	90	68150CP Std Only	

## 14 2.2L 2226cc SOHC Turbo L5 (10 Valve), 81mm Bore 1990-86 Eng. Code "MC" 1986-91

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B127	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
5	Exh.	86	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	90-86	68150CP Std Only	

## 15 2.3L 2309cc SOHC L5 (10 Valve), 82.5mm Bore 1990-88 Eng. Codes "NF" 1987-91, "NG" 1987-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-B170	
1	Timing Belt	90-88	222-B127	5000S Quattro
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
5	Exhaust	90-88	V-4520X Std Only	1.2990" Head Dia., .3127" Stem Dia., 3.5910" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
5	Int.	88	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
20	Keeper	88	VK-204	3 groove; w/.3125 Stem Dia.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	90-88	68150CP Std Only	

## 16 2.3L 2309cc DOHC L5 (20 Valve), 82.5mm Bore 1990-89 Eng. Code "7A" 1989-92

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	90-89	68150CP Std Only	

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## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.5L 1499cc SOHC L4 82mm Bore (8 Valve).....	1965-62	1	2.7L 2693cc SOHC L6 84mm Bore (12 Valve).....	1988-82	7
1.6L 1573cc SOHC L4 84mm Bore (8 Valve).....	1971-66	2	2.8L 2788cc SOHC L6 86mm Bore (12 Valve).....	1981-79	8
1.8L 1766cc SOHC L4 89mm Bore (8 Valve).....	1985-80	3	3.0L 2985cc SOHC L6 89mm Bore (12 Valve).....	1976-75	9
1.8L 1773cc SOHC L4 84mm Bore (8 Valve).....	1967-64	4	3.2L 3210cc SOHC L6 89mm Bore (12 Valve).....	1984-78	10
2.0L 1990cc SOHC L4 89mm Bore (8 Valve).....	1979-66	5	5.0L 4988cc SOHC V12 84mm Bore (24 Valve).....	1990-88	11
2.5L 2494cc SOHC L6 84mm Bore (12 Valve).....	1990-87	6			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
M10B18	1.8L 1766cc SOHC L4 89mm Bore (8 Valve).....	3	M30B32	3.2L 3210cc SOHC L6 89mm Bore (12 Valve).....	10
M10B20	2.0L 1990cc SOHC L4 89mm Bore (8 Valve).....	5	M70B50	5.0L 4988cc SOHC V12 84mm Bore (24 Valve).....	11
M20B25	2.5L 2494cc SOHC L6 84mm Bore (12 Valve).....	6	114	1.6L 1573cc SOHC L4 84mm Bore (8 Valve).....	2
M20B27	2.7L 2693cc SOHC L6 84mm Bore (12 Valve).....	7	118	1.8L 1773cc SOHC L4 84mm Bore (8 Valve).....	4
M30B28	2.8L 2788cc SOHC L6 86mm Bore (12 Valve).....	8	121	2.0L 1990cc SOHC L4 89mm Bore (8 Valve).....	5
M30B30	3.0L 2985cc SOHC L6 89mm Bore (12 Valve).....	9	128	2.8L 2788cc SOHC L6 86mm Bore (12 Valve).....	8

## 1 1.5L 1499cc SOHC L4 (8 Valve), 82mm Bore 1965-62 Eng. Code "115" 1961-65

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	65-62	4-65545CP Std-.25MM	

<b>1.6L 1573cc SOHC L4 (8 Valve), 84mm Bore 1971-66</b> <span style="float: right;"><b>2</b></span>					
Eng. Codes "M10B16" 1964-71, "114" 1964-71, "116" 1964-71					
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
1	Pin Bushing Set	71-66	4-1384Y20		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	71-66	4-65545CP	Std-.25MM	
<b>1.8L 1766cc SOHC L4 (8 Valve), 89mm Bore 1985-80</b> <span style="float: right;"><b>3</b></span>					
Eng. Code "M10B18" 1968-71 & 1980-85					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Cam Sprocket	84-80	223-2901	36 Teeth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	85-80	VK-204	3 groove; w/.3125 Stem Dia.	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	1	Pin Bushing Set	85-80	4-1384Y20	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	2	Premium Set	85-80	E-585KC	Std-.50MM 1-1.75MM, 1-2.00MM, 1-4.00MM (2 cyl. set)
4	Premium Single Cylinder Set	85-80	WE-585KC	Std Only 1-1.75MM, 1-2.00MM, 1-4.00MM (1 cyl. set)	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	85-80	4-65545CP	Std-.25MM	
<b>1.8L 1773cc SOHC L4 (8 Valve), 84mm Bore 1967-64</b> <span style="float: right;"><b>4</b></span>					
Eng. Codes "M10B18" 1964-67, "118" 1964-67					
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
1	Pin Bushing Set	67-64	4-1384Y20		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	67-64	4-65545CP	Std-.25MM	
<b>2.0L 1990cc SOHC L4 (8 Valve), 89mm Bore 1979-66</b> <span style="float: right;"><b>5</b></span>					
Eng. Codes "M10B20" 1977-79, "121" 1966-76					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Cam Sprocket	79	223-2901	From 11/78; 36 Teeth	
1	Cam Sprocket	78	223-2901	36 Teeth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	79-66	VK-204	3 groove; w/.3125 Stem Dia.	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	1	Pin Bushing Set	79-66	4-1384Y20	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	2	Premium Set	79-66	E-585KC	Std-.50MM 1-1.75MM, 1-2.00MM, 1-4.00MM (2 cyl. set)
4	Premium Single Cylinder Set	79-66	WE-585KC	Std Only 1-1.75MM, 1-2.00MM, 1-4.00MM (1 cyl. set)	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	79-66	4-65545CP	Std-.25MM	
<b>2.5L 2494cc SOHC L6 (12 Valve), 84mm Bore 1990-87</b> <span style="float: right;"><b>6</b></span>					
Eng. Code "M20B25" 1987-93					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90-87	222-131	525i; 127 teeth	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	90-87	V-4661	Std Only Chrome plated stem; 1.4150" Head Dia., .2745" Stem Dia., 4.0350" O.A.L.	
6	Intake	90-87	V-4662	Std Only Chrome plated stem; 1.6510" Head Dia., .2743" Stem Dia., 4.0350" O.A.L.	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	90-87	245-1500-62	Std Only 1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
6	Int.	90-87	245-1750-60	Std Only 1.555" ID top taper; 1.7570" OD, 1.4370" ID, .3020" Depth	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-87	7027M	Std Only Lower halves w/single tang	
1	Rod Set	90-87	6-1390CP	Std Only	
<b>2.7L 2693cc SOHC L6 (12 Valve), 84mm Bore 1988-82</b> <span style="float: right;"><b>7</b></span>					
Eng. Code "M20B27" 1982-88					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	87	222-131	To 2/87; 127 teeth	
1	Timing Belt	86-82	222-131	127 teeth	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
12	Guide	85-82	VG-7638	.008" O/S OD; .2760" ID, 1.7710" O.A.L.	

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<b>7 2.7L 2693cc SOHC L6 (12 Valve), 84mm Bore 1988-82</b> (cont.) Eng. Code "M20B27" 1982-88				
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	88-86	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
6	Int.	88-86	245-1750-60 Std Only	1.555" ID top taper; 1.7570" OD, 1.4370" ID, .3020" Depth
6	Int.	85-82	245-1687-57 Std Only	1.687" OD
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-82	E-602KC.50MM .50MM	1-1.50MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-82	7027M Std Only	Lower halves w/single tang
1	Rod Set	88-82	6-1390CP Std Only	
<b>8 2.8L 2788cc SOHC L6 (12 Valve), 86mm Bore 1981-79</b> Eng. Codes "M30B28" 1979-81, "128" 1979-81				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	81-79	VK-204	3 groove; w/.3125 Stem Dia.
<b>9 3.0L 2985cc SOHC L6 (12 Valve), 89mm Bore 1976-75</b> Eng. Code "M30B30" 1975-78				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	76-75	VK-204	3 groove; w/.3125 Stem Dia.
<b>10 3.2L 3210cc SOHC L6 (12 Valve), 89mm Bore 1984-78</b> Eng. Code "M30B32" 1978-84				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	84-78	VK-204	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
3	Premium Set	84-78	E-585KC Std-.50MM	1-1.75MM, 1-2.00MM, 1-4.00MM (2 cyl. set)
6	Premium Single Cylinder Set	84-78	WE-585KC Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM (1 cyl. set)
<b>11 5.0L 4988cc SOHC V12 (24 Valve), 84mm Bore 1990-88</b> Eng. Code "M70B50" 1988-94				
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
12		90-88	245-1500-63 Std Only	1.5070" OD, 1.2100" ID, .3450" Depth
12		90-88	245-1750-60 Std Only	1.555" ID top taper; 1.7570" OD, 1.4370" ID, .3020" Depth
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7311M Std Only	

# British Leyland

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
.8L 848cc OHV L4 63mm Bore (8 Valve) .....	1967-60	1	1.1L 1098cc OHV L4 64.6mm Bore (8 Valve) .....	1967-62	6
.9L 948cc OHV L4 62.9mm Bore (8 Valve) .....	1962-59	2	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve) .....	1972-67	7
1.0L 997cc OHV L4 62.4mm Bore (8 Valve) .....	1964-62	3	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve) .....	1979-75	8
1.0L 998cc OHV L4 64.6mm Bore (8 Valve) .....	1964	4	1.6L 1622cc OHV L4 76.2mm Bore (8 Valve) .....	1963-61	9
1.1L 1071cc OHV L4 70.6mm Bore (8 Valve) .....	1964	5	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve) .....	1980-65	10

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
ADM.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve).....	8	18GA .....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
ADS.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve).....	8	18GB .....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
FP300.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve).....	8	18GF.....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
10CC .....	1.1L 1098cc OHV L4 64.6mm Bore (8 Valve).....	6	18GH .....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
10CG .....	1.1L 1098cc OHV L4 64.6mm Bore (8 Valve).....	6	18GJ.....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
10GR.....	1.1L 1098cc OHV L4 64.6mm Bore (8 Valve).....	6	18GK .....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
12CC .....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	18V .....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10
12CD .....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	8AM .....	.8L 848cc OHV L4 63mm Bore (8 Valve)....	1
12CE.....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	8MB .....	.8L 848cc OHV L4 63mm Bore (8 Valve)....	1
12CJ.....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	85H .....	.8L 848cc OHV L4 63mm Bore (8 Valve)....	1
12G.....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	9AG .....	1.0L 998cc OHV L4 64.6mm Bore (8 Valve).....	4
12H.....	1.3L 1275cc OHV L4 70.6mm Bore (8 Valve).....	7	9C .....	.9L 948cc OHV L4 62.9mm Bore (8 Valve) .	2
18G.....	1.8L 1798cc OHV L4 80.26mm Bore (8 Valve).....	10	9CG .....	.9L 948cc OHV L4 62.9mm Bore (8 Valve) .	2
			99H.....	1.0L 998cc OHV L4 64.6mm Bore (8 Valve).....	4

<b>.8L 848cc OHV L4 (8 Valve), 63mm Bore 1967-60</b>					<b>1</b>
Eng. Codes "8AM" 1959-74, "8MB" 1959-67, "85H" 1959-67					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	67-60	<b>4-2965CP</b>	Std-10-20-30-40	
<b>.9L 948cc OHV L4 (8 Valve), 62.9mm Bore 1962-59</b>					<b>2</b>
Eng. Codes "9C" 1956-62, "9CG" 1956-62					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	62-59	<b>4-2965CP</b>	Std-10-20-30-40	
<b>1.0L 997cc OHV L4 (8 Valve), 62.4mm Bore 1964-62</b>					<b>3</b>
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	64-62	<b>4-2965CP</b>	Std-10-20-30-40	
<b>1.0L 998cc OHV L4 (8 Valve), 64.6mm Bore 1964</b>					<b>4</b>
Eng. Codes "9AG" 1961-74, "99H" 1961-74					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	64	<b>4-2965CP</b>	Std-10-20-30-40	
<b>1.1L 1071cc OHV L4 (8 Valve), 70.6mm Bore 1964</b>					<b>5</b>
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	64	<b>4-2965CP</b>	Std-10-20-30-40	
<b>1.1L 1098cc OHV L4 (8 Valve), 64.6mm Bore 1967-62</b>					<b>6</b>
Eng. Codes "10CC" 1962-67, "10CG" 1963-64, "10GR" 1962-74					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	67-62	<b>4-2965CP</b>	Std-10-20-30-40	
<b>1.3L 1275cc OHV L4 (8 Valve), 70.6mm Bore 1972-67</b>					<b>7</b>
Eng. Codes "12CC" 1966-67, "12CD" 1968-70, "12CE" 1966-67, "12CJ" 1971-77, "12G" 1965-72, "12H" 1964-72					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	72-67	<b>4-2965CP</b>	Std-10-20-30-40 Eng. Code "12G"	
<b>1.5L 1493cc OHV L4 (8 Valve), 73.7mm Bore 1979-75</b>					<b>8</b>
Eng. Codes "ADM" 1975-79, "ADS" 1975-79, "FP300" 1975-79					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	79-75	<b>65931AF</b>	Std Only Position 3	

# British Leyland

<b>9 1.6L 1622cc OHV L4 (8 Valve), 76.2mm Bore 1963-61</b>					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Thrust Washer Set	63-61	2056BF Std Only	Position 2	
<b>10 1.8L 1798cc OHV L4 (8 Valve), 80.26mm Bore 1980-65</b> Eng. Codes "18G" 1961-64, "18GA" 1961-64, "18GB" 1965-67, "18GF" 1968-69, "18GH" 1970, "18GJ" 1970, "18GK" 1971, "18V" 1972-81					
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	80-70	VG-772	Exh.; .3440" ID, 2.2200" O.A.L.	
4	Guide	80-70	VG-773	Int.; .3440" ID, 1.8700" O.A.L.	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Thrust Washer Set	80-65	65077BF Std Only	Position 3	

**Buick - See GM Car**

**Cadillac - See GM Car**

**Checker - See Engine Manufacturer**

**Chevrolet - See GM Car**

**Chevrolet Minivans - See GMC Truck**

**Chevrolet SUV's - See GMC Truck**

**Chevrolet Truck - See GMC Truck**

**Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)**

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.4L 86 (1410cc) SOHC L4 74mm Bore (8 Valve) (Mitsubishi Eng.)	1984-79	1	2.8L 170 OHV L6 3.4063" Bore	1971-60	22
1.5L 89.5 (1468cc) SOHC L4 75.5mm Bore (8 Valve) (Mitsubishi Eng.)	1990-85	2	3.0L 181.1 (2972cc) SOHC V6 91.1mm Bore (12 Valve) (Mitsubishi Eng.)	1990-88	23
1.6L 97.1 (1592cc) OHV L4 80.6mm Bore (8 Valve) (Peugeot Eng.)	1986-83	3	3.2L 198 OHV L6 3.4063" Bore	1974-70	24
1.6L 97.3 (1595cc) DOHC L4 82.3mm Bore (16 Valve) (Mitsubishi Eng.)	1990-89	4	3.3L 201 (3302cc) OHV V6 93mm Bore (12 Valve)	1990	25
1.6L 97.3 (1595cc) DOHC Turbo L4 82.3mm Bore (16 Valve) (Mitsubishi Eng.)	1990-89	5	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth)	1953-46	26
1.6L 97.5 (1597cc) SOHC L4 76.9mm Bore (8 Valve) (Mitsubishi Eng.)	1984-71	6	3.7L 225 OHV L6 3.4063" Bore	1983-60	27
1.6L 97.5 (1597cc) SOHC Turbo L4 76.9mm Bore (8 Valve) (Mitsubishi Eng.)	1988-84	7	3.8L 230 L-HEAD L6 3.25" Bore (Dodge)	1959-46	28
1.7L 105 (1715cc) SOHC L4 79.5mm Bore (8 Valve) (VW Eng.)	1983-78	8	3.9L 236.6 L-HEAD L6 3.4375" Bore (DeSoto)	1950-46	29
1.8L 107.1 (1755cc) SOHC L4 80.6mm Bore (8 Valve) (Mitsubishi Eng.)	1990-89	9	4.0L 241.4 OHV V8 3.4375" Bore (Dodge)	1955-53	30
2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.)	1979-74	10	4.1L 251 L-HEAD L6 3.4375" Bore (Chrysler)	1954-46	31
2.0L 122 (1997cc) SOHC L4 85mm Bore (8 Valve) (Mitsubishi Eng.)	1990-84	11	4.3L 260 OHV V8 3.5625" Bore (Plymouth)	1955	32
2.0L 122 (1997cc) DOHC L4 85mm Bore (16 Valve) (Mitsubishi Eng.)	1990-89	12	4.3L 265 L-HEAD L6 3.4375" Bore (Chrysler)	1954-52	33
2.0L 122 (1997cc) DOHC Turbo L4 85mm Bore (16 Valve) (Mitsubishi Eng.)	1990	13	4.4L 270 OHV V8 3.625" Bore (Dodge/Plymouth)	1956-55	34
2.2L 135 (2212cc) SOHC L4 87.5mm Bore (8 Valve)	1990-81	14	4.5L 273 OHV V8 3.625" Bore	1969-64	35
2.2L 135 (2212cc) SOHC Turbo L4 87.5mm Bore (8 Valve)	1990-84	15	4.5L 276 OHV V8 3.625" Bore (DeSoto)	1954-52	36
2.2L 135 (2212cc) DOHC Turbo L4 87.5mm Bore (16 Valve)	1990-89	16	4.5L 277 OHV V8 3.75" Bore (Plymouth)	1957-52	37
2.5L 150 OHV L4 3.875" Bore (AMC) (AMC Eng.)	1989-88	17	4.9L 301 OHV V8 3.625" Bore (Chrysler)	1955	38
2.5L 153 (2507cc) SOHC L4 87.5mm Bore (8 Valve)	1990-86	18	4.9L 301 OHV V8 3.625" Bore (Chrysler)	1955	39
2.5L 153 (2507cc) SOHC Turbo L4 87.5mm Bore (8 Valve)	1990-89	19	5.0L 303 OHV V8 3.8125" Bore (Plymouth)	1958-56	40
2.6L 156 (2555cc) SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.)	1985-78	20	5.1L 313 OHV V8 3.875" Bore (Plymouth)	1966-57	41
2.6L 156 (2555cc) SOHC Turbo L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.)	1989-84	21	5.2L 315 OHV V8 3.625" Bore (Dodge)	1956	42
			5.2L 318 OHV V8 3.9063" Bore	1989-57	43
			5.3L 325 OHV V8 3.6875" Bore (Dodge)	1958-57	44
			5.3L 326 OHV V8 3.9531" Bore (Dodge)	1959	45
			5.4L 331 OHV V8 3.8125" Bore (Chrysler)	1956-51	46
			5.6L 340 OHV V8 4.04" Bore	1973-68	47
			5.6L 341 OHV V8 3.7813" Bore (DeSoto)	1957	48
			5.7L 350 OHV V8 4.0625" Bore	1958	49
			5.8L 354 OHV V8 3.9375" Bore (Chrysler)	1959-56	50
			5.9L 360 OHV V8 4" Bore	1980-71	51
			5.9L 361 OHV V8 4.125" Bore	1966-58	52
			6.3L 383 OHV V8 4.25" Bore	1971-59	53
			6.4L 392 OHV V8 4" Bore (Chrysler)	1958-57	54
			6.6L 400 OHV V8 4.342" Bore	1978-72	55
			6.7L 413 OHV V8 4.1875" Bore	1965-59	56
			7.0L 426 OHV V8 4.25" Bore	1971-63	57
			7.2L 440 OHV V8 4.32" Bore	1978-66	58



# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
E82	1.6L 97.1 (1592cc) OHV L4 80.6mm Bore (8 Valve) (Peugeot Eng.)	3	4G32	1.6L 97.5 (1597cc) SOHC L4 76.9mm Bore (8 Valve) (Mitsubishi Eng.)	6
G12B	1.4L 86 (1410cc) SOHC L4 74mm Bore (8 Valve) (Mitsubishi Eng.)	1	4G37	1.8L 107.1 (1755cc) SOHC L4 80.6mm Bore (8 Valve) (Mitsubishi Eng.)	9
G15B	1.5L 89.5 (1468cc) SOHC L4 75.5mm Bore (8 Valve) (Mitsubishi Eng.)	2	4G52	2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.)	10
G32B	1.6L 97.5 (1597cc) SOHC L4 76.9mm Bore (8 Valve) (Mitsubishi Eng.)	6	4G61	1.6L 97.3 (1595cc) DOHC L4 82.3mm Bore (16 Valve) (Mitsubishi Eng.)	4
G32B-T	1.6L 97.5 (1597cc) SOHC Turbo L4 76.9mm Bore (8 Valve) (Mitsubishi Eng.)	7	4G61-T	1.6L 97.3 (1595cc) DOHC Turbo L4 82.3mm Bore (16 Valve) (Mitsubishi Eng.)	5
G52B	2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.)	10	4G63	2.0L 122 (1997cc) SOHC L4 85mm Bore (8 Valve) (Mitsubishi Eng.)	11
G54B	2.6L 156 (2555cc) SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.)	20	4G63	2.0L 122 (1997cc) DOHC L4 85mm Bore (16 Valve) (Mitsubishi Eng.)	12
G54B-T	2.6L 156 (2555cc) SOHC Turbo L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.)	21	4G63-T	2.0L 122 (1997cc) DOHC Turbo L4 85mm Bore (16 Valve) (Mitsubishi Eng.)	13
G63B	2.0L 122 (1997cc) SOHC L4 85mm Bore (8 Valve) (Mitsubishi Eng.)	11	6G72	3.0L 181.1 (2972cc) SOHC V6 91.1mm Bore (12 Valve) (Mitsubishi Eng.)	23
4G15	1.5L 89.5 (1468cc) SOHC L4 75.5mm Bore (8 Valve) (Mitsubishi Eng.)	2			

1.4L 86 (1410cc) SOHC L4 (8 Valve), 74mm Bore (Mitsubishi Eng.) 1984-79 <span style="float: right;">1</span>					
VIN Codes "A" 1984, "J" 1979-80, "2" 1981-83, Eng. Code "G12B" 1979-84					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	84-79	222-73		
1	Timing Belt Tensioner	84-79	222-33BT		
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Rocker Shaft	84-79	RS-638	Exh.
	1	Rocker Shaft	84-79	RS-639	Int.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	84-79	V-2253 Std Only	Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.
	4	Intake	84-79	V-2254 Std Only	Nitrided stem; 1.3400" Head Dia., .2580" Stem Dia., 4.0200" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Guide	84-79	VG-721	Exh.; .2610" ID, 1.9500" O.A.L.
	4	Guide	84-79	VG-722	Int.; .2610" ID, 1.7300" O.A.L.
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	84-79	ST-2056	Positive type; Rubber	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	84-79	245-1312-53 Std Only	1.3195" OD, .9800" ID, .2930" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	84-79	VK-230		
8	Spring Insert	84-79	259-821B	.060"; Case hardened; Carton of 48	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Cast Piston	80-79	12206P Std-.50-.75MM	VIN Code "J"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 29.0mm CD, 18.0mm Pin Dia., Recessed Head 1.50mm deep x 66.00mm dia. - 8.8:1 C.R.	
<b>BLOCK</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	84-79	E-370KC.50MM .50-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	84-79	E-370X Std Only	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	84-79	WE-370KC Std Only	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	84-79	WE-370X Std-.50MM	2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	84-79	6630M Std-.25-.50MM	
	1	Rod Set	84-79	4-3955RA Std-.25-.50-.75MM	
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Kit Gasket Set	84-79	260-1194	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
<b>RE-RING KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
84-79	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-861	205-361
		Re-ring w/Mains		205-861M	205-361M

# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2 1.5L 89.5 (1468cc) SOHC L4 (8 Valve), 75.5mm Bore (Mitsubishi Eng.) 1990-85**  
 VIN Codes "K" 1985-90, "P" 1987-88, "Q" 1985-91, "X" 1988-90, Eng. Codes "4G15" 1987-90, "G15B" 1985-91

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90-87	222-128		
1	Timing Belt	86-85	222-73		
1	Timing Belt Tensioner	90-85	222-33BT		
1	Timing Belt & Tensioner Set	90-87	BTS-128		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Prelube	90-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
6	Arm	90-87	R-1123	Exh. & Int. 1-3	
6	Arm	90-87	R-1124	Exh. & Int. 2-4	
1	Rocker Shaft	90-85	RS-638	Exh.	
1	Rocker Shaft	90-85	RS-639	Int.	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	90-85	V-2253 Std Only	Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.	
4	Intake	90-89	V-4067 Std Only	Chrome plated stem; 1.3790" Head Dia., .2600" Stem Dia., 4.0040" O.A.L.	
4	Intake	88-85	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.	
4	Intake	88-85	V-2254 Std Only	Nitrided stem; 1.3400" Head Dia., .2580" Stem Dia., 4.0200" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	90-85	VG-721	Exh.; .2610" ID, 1.9500" O.A.L.	
4	Guide	90-85	VG-722	Int.; .2610" ID, 1.7300" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	90-85	VS-1512	Exh. & Int.; 1.7990" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	90-85	ST-2056	Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	90-85	245-1312-53 Std Only	1.3195" OD, .9800" ID, .2930" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	90-85	VK-230		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	90-87	12738P.50MM	.50-1.00MM Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-85	E-516KC Std-.50-.75MM	2-1.50MM, 1-4.00MM	
1	Standard Set	90-85	E-516X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	90-85	WE-516KC Std-.50MM	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	90-85	WE-516X Std-.50-1.00MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-85	6630M Std-.25-.50MM		
1	Rod Set	90-89	4-4475RA Std-.25-.50MM		
1	Rod Set	88	4-4475RA Std-.25-.50MM	From 9/88	
1	Rod Set	88	4-3955RA Std-.25-.50-.75MM	To 8/88	
1	Rod Set	87-85	4-3955RA Std-.25-.50-.75MM		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Screen Assy.	90	224-14281		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-89	260-1701	VIN Code "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	90-85	260-1194	VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	88-87	260-1701	VIN Codes "P" & "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90	381-8095		
1	Brass Block Plug Kit	89-88	381-8095		
1	Brass Block Plug Kit	87-85	381-8095		
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	90-89	VIN Code "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6324 205-6324M	205-1324 205-1324M
90-89	VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains	205-6325 205-6325M	205-1325 205-1325M	

(continued on next page)

# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

1.5L 89.5 (1468cc) SOHC L4 (8 Valve), 75.5mm Bore (Mitsubishi Eng.) 1990-85 <b>2</b>					
VIN Codes "K" 1985-90, "P" 1987-88, "Q" 1985-91, "X" 1988-90, Eng. Codes "4G15" 1987-90, "G15B" (cont.) 1985-91					
<b>K I T S</b>	<b>RE-RING KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	88	To 8/88; VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6095 205-6095M	205-1095 205-1095M
	88	To 8/88; VIN Codes "P" & "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6323 205-6323M	205-1323 205-1323M
	88	From 9/88; VIN Codes "P" & "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6324 205-6324M	205-1324 205-1324M
	88	From 9/88; VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains	205-6325 205-6325M	205-1325 205-1325M
	87	VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6095 205-6095M	205-1095 205-1095M
	87	VIN Codes "P" & "X"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6323 205-6323M	205-1323 205-1323M
86-85	VIN Codes "K" & "Q"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6095 205-6095M	205-1095 205-1095M	
<b>1.6L 97.1 (1592cc) OHV L4 (8 Valve), 80.6mm Bore (Peugeot Eng.) 1986-83 <b>3</b></b>					
VIN Code "A" 1983-86, Eng. Code "E82" 1983-86					
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	86-83	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	86-83	381-8036		
<b>1.6L 97.3 (1595cc) DOHC L4 (16 Valve), 82.3mm Bore (Mitsubishi Eng.) 1990-89 <b>4</b></b>					
VIN Code "Y" 1989-90, Eng. Code "4G61" 1989-90					
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	90-89	222-B165	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Lifter	90	HT-2274 Std Only	Hyd. lash adj.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Exhaust	90	V-2653 Std Only	Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
	8	Exhaust, Bulk	90	V-2653B Std Only	Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
	8	Intake	90	V-2652 Std Only	Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
	8	Intake, Bulk	90	V-2652B Std Only	Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	90	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.
	8	Guide	90	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Spring	90	VS-1535	1.8000" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Valve Stem Seal	90	ST-2056	Positive type; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exh.	90	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth	
8	Int.	90	245-1437-68 Std Only	1.4445" OD, 1.1350" ID, .3165" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
32	Keeper	90	VK-230		
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90	E-742KC Std Only	1-1.20MM, 1-1.50MM, 1-3.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	90	5103M Std-.25-.50-.75MM	
1	Rod Set	90	4-3485CP Std-.25-.50-.75MM		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90-89	260-1704	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

4 1.6L 97.3 (1595cc) DOHC L4 (16 Valve), 82.3mm Bore (Mitsubishi Eng.) 1990-89 (cont.) VIN Code "Y" 1989-90, Eng. Code "4G61" 1989-90				
RE-RING KIT			PREMIUM	ECONOMY
YEARS	DESCRIPTION		KIT NO.	KIT NO.
90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6704 205-6704M	----- -----
5 1.6L 97.3 (1595cc) DOHC Turbo L4 (16 Valve), 82.3mm Bore (Mitsubishi Eng.) 1990-89 VIN Code "Z" 1989-90, Eng. Code "4G61-T" 1989-90				
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	90-89	HT-2274 Std Only	Hyd. lash adj.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-89	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.
4	Guide	90-89	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	5103M Std-.25-.50-.75MM	
1	Rod Set	90-89	4-3485CP Std-.25-.50-.75MM	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	260-1704	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
6 1.6L 97.5 (1597cc) SOHC L4 (8 Valve), 76.9mm Bore (Mitsubishi Eng.) 1984-71 VIN Codes "B" 1984, "K" 1971-80, "Z" 1977-80, "3" 1981-83, Eng. Codes "G32B" 1976-84, "4G32" 1971-77				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	80-78	222-13	VIN Code "Z"
1	Timing Belt	77	222-13	
1	Bal. Shaft Belt Tensioner	80-77	222-38BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	84-71	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	84-71	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Intake	84-81	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	84-71	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
4	Guide	84-71	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
4	Guide	84-71	VG-710	Int.; .3155" ID, 1.7280" O.A.L.
4	Guide, Bulk	84-71	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	84	ST-2083	Exh.; To 8/84; Positive type; Rubber
8	Valve Stem Seal	84	ST-2037	Exh. & Int.; From 9/84; Positive type; Rubber
4	Valve Stem Seal	84	ST-2037	Int.; To 8/84; Positive type; Rubber
8	Valve Stem Seal	83-71	ST-2037	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	84-71	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	84	VK-232	
8	Spring Insert	84-71	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	84	E-387KC Std-.50-.75-1.00MM	w/A/T; 2-2.00MM, 1-4.00MM
1	Premium Set	84	E-486KC Std Only	w/M/T; 2-1.50MM, 1-4.00MM
1	Premium Set	83-71	E-387KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
1	Standard Set	84	E-387X Std Only	w/A/T; 2-2.00MM, 1-4.00MM
1	Standard Set	84	E-486X Std Only	w/M/T; 2-1.50MM, 1-4.00MM
1	Standard Set	83-71	E-387X Std Only	2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	84	WE-387KC Std-.50MM	w/A/T; 2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	84	WE-486KC Std Only	w/M/T; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	83-71	WE-387KC Std-.50MM	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	84	WE-387X Std-1.00MM	w/A/T; 2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	83-71	WE-387X Std-1.00MM	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-71	5103M Std-.25-.50-.75MM	
1	Rod Set	84-71	4-3485CP Std-.25-.50-.75MM	
1	Cam Set	84-78	1858M Std Only	
1	Aux. Shaft Set	84-71	1806M	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

1.6L 97.5 (1597cc) SOHC L4 (8 Valve), 76.9mm Bore (Mitsubishi Eng.) 1984-71 <span style="float: right;"><b>6</b></span>				
VIN Codes "B" 1984, "K" 1971-80, "Z" 1977-80, "3" 1981-83, Eng. Codes "G32B" 1976-84, "4G32" (cont.) 1971-77				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	84-71	381-8023	
1.6L 97.5 (1597cc) SOHC Turbo L4 (8 Valve), 76.9mm Bore (Mitsubishi Eng.) 1988-84 <span style="float: right;"><b>7</b></span>				
VIN Code "F" 1984-90, Eng. Code "G32B-T" 1984-90				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	88-84	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
4	Guide	88-84	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
4	Guide	88-84	VG-710	Int.; .3155" ID, 1.7280" O.A.L.
4	Guide, Bulk	88-84	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	88-84	245-1375-51	Std Only 1.3820" OD, 1.0600" ID, .2800" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-84	VK-232	
8	Spring Insert	88-84	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-84	E-486KC	Std Only 2-1.50MM, 1-4.00MM
1	Standard Set	88-84	E-486X	Std Only 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	88-84	WE-486KC	Std Only 2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-84	5103M	Std-.25-.50-.75MM
1	Rod Set	88-84	4-3485CP	Std-.25-.50-.75MM
1	Cam Set	88-84	1858M	Std Only
1	Aux. Shaft Set	88-84	1806M	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	86-84	381-8023	
1.7L 105 (1715cc) SOHC L4 (8 Valve), 79.5mm Bore (VW Eng.) 1983-78 <span style="float: right;"><b>8</b></span>				
VIN Codes "A" 1978-83, "B" 1983				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	83-78	222-17	
1	Timing Belt & Tensioner Set	83-78	BTS-17	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	83-82	VG-776	Exh.; .3149" ID, 1.6750" O.A.L.
4	Guide	83-82	VG-705	Int.; Bronze; .3150" ID, 1.4400" O.A.L.
8	Guide	81-78	VG-705	Exh. & Int.; Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	83-78	ST-2039	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	83-78	VK-204	3 groove; w/.3125 Stem Dia.
8	Spring Insert	83-78	259-821B	.060"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	83-78	68099YA	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-78	6834M	Std-.25MM w/std. length flange brg.
1	Aux. Shaft Set	83-78	1726M	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	83-78	224-41912	
1.8L 107.1 (1755cc) SOHC L4 (8 Valve), 80.6mm Bore (Mitsubishi Eng.) 1990-89 <span style="float: right;"><b>9</b></span>				
VIN Codes "B" 1993-94, "T" 1989-92, Eng. Code "4G37" 1989-94				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-158	Laser
1	Timing Belt Tensioner	90	222-328BT	Colt & Laser
1	Timing Belt Tensioner	89	222-328BT	Colt
1	Bal. Shaft Belt	90	222-159	Laser
1	Bal. Shaft Belt Tensioner	90-89	222-38BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	90-89	HT-6000	Std Only Hyd. lash adj.
8	Lifter, Bulk	90-89	HT-6000B	Std Only Hyd. lash adj.; Carton of 128
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-89	V-2658	Std Only Chrome plated stem; 1.3390" Head Dia., .3125" Stem Dia., 3.7630" O.A.L.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

<b>9 1.8L 107.1 (1755cc) SOHC L4 (8 Valve), 80.6mm Bore (Mitsubishi Eng.) 1990-89</b>						
<b>(cont.) VIN Codes "B" 1993-94, "T" 1989-92, Eng. Code "4G37" 1989-94</b>						
<b>QTY</b>	<b>VALVE (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Intake	90-89	V-2659 Std Only	Chrome plated stem; 1.6540" Head Dia., .3137" Stem Dia., 3.8660" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	90-89	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.		
4	Guide	90-89	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.		
4	Guide	90-89	VG-710	Int.; .3155" ID, 1.7280" O.A.L.		
4	Guide, Bulk	90-89	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	90-89	ST-2083	Exh. & Int.; Positive type; Rubber		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	90-89	VK-232			
8	Spring Insert	90-89	259-821B	.060"; Case hardened; Carton of 48		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	90-89	E-541KC Std Only	2-1.50MM, 1-4.00MM		
1	Standard Set	90-89	E-541X Std Only	2-1.50MM, 1-4.00MM		
4	Premium Single Cylinder Set	90-89	WE-541KC Std Only	2-1.50MM, 1-4.00MM		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	90-89	5103M Std-.25-.50-.75MM			
1	Rod Set	90-89	4-3485CP Std-.25-.50-.75MM			
1	Aux. Shaft Set	90	1806M			
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Screen Assy.	90-89	224-14281			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-89	260-1703	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>	
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>	
90-89	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6375	205-1375	
			Re-ring w/Mains	205-6375M	205-1375M	
<b>10 2.0L 121.7 (1995cc) SOHC L4 (8 Valve), 84mm Bore (Mitsubishi Eng.) 1979-74</b>						
<b>VIN Code "U" 1974-79, Eng. Codes "G52B" 1974-79, "4G52" 1974-79</b>						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Complete Set	78-74	KT-1013S	Incl. sprockets, chain, tensioner & guides		
1	Bal. Shaft Set	78	KT-1014S	Incl. sprockets, chain & guides		
1	Timing Chain	78-74	222-3DR102	Double rlr.; 102 Links		
1	Timing Chain Tensioner	78-76	222-49CT			
1	Timing Chain Guide	78-74	222-31GP	Slack Side		
1	Timing Chain Guide	78-74	222-30GP	Tension Side		
1	Bal. Shaft Chain Guide	78-76	222-51GP	Lower		
1	Crank Sprocket	78-76	223-407	Single row; 34 Teeth		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Intake	78	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	78-74	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.		
4	Guide	78-74	VG-715	Int.; .3155" ID, 1.8500" O.A.L.		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	78-74	ST-2037	Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exh.	78-74	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth		
4	Int.	78-74	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring Insert	78-74	259-821B	.060"; Case hardened; Carton of 48		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Cast Piston	79	12207P Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 40.3mm CD, 22.0mm Pin Dia., Flat Head - 8.5:1 C.R.		
4	Cast Piston	78	12207P Std Only	Exc. Canada; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 40.3mm CD, 22.0mm Pin Dia., Flat Head - 8.5:1 C.R.		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	79-74	E-357KC Std-1.00MM	2-2.00MM, 1-4.00MM		
1	Standard Set	79-74	E-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM		
4	Premium Single Cylinder Set	79-74	WE-357KC Std-.50-.75MM	2-2.00MM, 1-4.00MM		
4	Standard Single Cylinder Set	79-74	WE-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM		

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.0L 121.7 (1995cc) SOHC L4 (8 Valve), 84mm Bore (Mitsubishi Eng.) 1979-74 <b>10</b>					
VIN Code "U" 1974-79, Eng. Codes "G52B" 1974-79, "4G52" 1974-79 (cont.)					
<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	79	<b>6618M</b> Std-.25-.50-.75MM	
	1	Main Set	78-74	<b>6593M</b> Std-.25-.50-.75MM	
	1	Rod Set	79-74	<b>4-66675P</b> Std-.25-.50-.75-1.00MM	
	1	Aux. Shaft Set	79-74	<b>1805M</b>	Rear bal. shaft; Aux. shaft
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	78-76	<b>224-41914</b>		
2.0L 122 (1997cc) SOHC L4 (8 Valve), 85mm Bore (Mitsubishi Eng.) 1990-84 <b>11</b>					
VIN Codes "D" 1984-88, "V" 1989-92, Eng. Codes "G63B" 1984-91, "4G63" 1989-92					
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	90	<b>222-158</b>	Colt, Laser, Talon & Vista
	1	Timing Belt	89	<b>222-158</b>	Colt & Vista
	1	Timing Belt	89	<b>222-155</b>	2000 GTX
	1	Timing Belt	88-87	<b>222-158</b>	
	1	Timing Belt	86	<b>222-89</b>	w/M/T
	1	Timing Belt	86	<b>222-158</b>	From 1/2/86; w/A/T
	1	Timing Belt	86	<b>222-89</b>	To 1/1/86; w/A/T
	1	Timing Belt	85-84	<b>222-89</b>	
	1	Timing Belt Tensioner	90	<b>222-105BT</b>	Colt, Laser, Talon & Vista
	1	Timing Belt Tensioner	89	<b>222-105BT</b>	Colt & Vista
	1	Timing Belt Tensioner	89	<b>222-333BT</b>	2000 GTX
	1	Timing Belt Tensioner	88-84	<b>222-105BT</b>	
	1	Bal. Shaft Belt	90-87	<b>222-159</b>	
	1	Bal. Shaft Belt	86-84	<b>222-90</b>	
	1	Bal. Shaft Belt Tensioner	90-88	<b>222-161BT</b>	
	1	Bal. Shaft Belt Tensioner	87	<b>222-161BT</b>	From 5/87
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	90	<b>CS-817</b>	Exc. 2000 GTX
	1	Camshaft	89	<b>CS-817</b>	Exc. 2000 GTX
	1	Camshaft	88-85	<b>CS-817</b>	
	8	Lifter	90-85	<b>HT-6000</b> Std Only	Hyd. lash adj.
	8	Lifter, Bulk	90-85	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Arm	90-89	<b>R-958</b>	Exh. & Int. R.H.; w/o Jet valves
	2	Arm	89-85	<b>R-958</b>	Exh. 1-3; w/Jet valves
	1	Rocker Shaft	90-85	<b>RS-658</b>	Exh.
	1	Rocker Shaft	90-85	<b>RS-659</b>	Int.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	90-84	<b>V-3933</b> Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.
	4	Intake	90-84	<b>V-2331</b> Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.
	4	Intake	86	<b>V-3953</b> Std Only	To 10/31/86; Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
	4	Intake	85-84	<b>V-3953</b> Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Guide	90-84	<b>VG-714</b>	Exh.; .3160" ID, 2.0500" O.A.L.
	4	Guide	90-84	<b>VG-715</b>	Int.; .3155" ID, 1.8500" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Spring	90-85	<b>VS-1461</b>	Exh. & Int.; 1.9600" Free Height
	8	Spring, Bulk	90-85	<b>VS-1461B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Valve Stem Seal	90-84	<b>ST-2083</b>	Exh.; Positive type; Rubber
	4	Valve Stem Seal	90-84	<b>ST-2037</b>	Int.; Positive type; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90-84	<b>245-1500-62</b> Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
4	Int.	90-84	<b>245-1750-61</b> Std Only	1.7570" OD, 1.4450" ID, .3100" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	90-84	<b>VK-232</b>		
8	Spring Insert	90-84	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	90-88	<b>E-455KC</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM	
1	Premium Set	87	<b>E-455KC</b> Std-.50-.75-1.00-1.50MM	VIN Code "D"; From 11/1/86; 2-1.50MM, 1-4.00MM	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**11 2.0L 122 (1997cc) SOHC L4 (8 Valve), 85mm Bore (Mitsubishi Eng.) 1990-84**  
 (cont.) VIN Codes "D" 1984-88, "V" 1989-92, Eng. Codes "G63B" 1984-91, "4G63" 1989-92

BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	87	<b>E-452KC</b> Std-.75-1.00MM	VIN Code "D"; To 10/31/86; 2-2.00MM, 1-4.00MM
	1	Premium Set	86-84	<b>E-452KC</b> Std-.75-1.00MM	2-2.00MM, 1-4.00MM
	1	Standard Set	90-88	<b>E-455X</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	1	Standard Set	87	<b>E-455X</b> Std-.50-.75-1.00-1.50MM	VIN Code "D"; From 11/1/86; 2-1.50MM, 1-4.00MM
	1	Standard Set	87	<b>E-452X</b> Std-.50-.75-1.00MM	VIN Code "D"; To 10/31/86; 2-2.00MM, 1-4.00MM
	1	Standard Set	86-84	<b>E-452X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	90-88	<b>WE-455KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	87	<b>WE-455KC</b> Std-.50-.75-1.00MM	VIN Code "D"; From 11/1/86; 2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	87	<b>WE-455KC</b> Std-.50-.75-1.00MM	VIN Code "D"; To 10/31/86; 2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	86-84	<b>WE-452KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	90-88	<b>WE-455X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	87	<b>WE-455X</b> Std-.50-.75-1.00MM	VIN Code "D"; From 11/1/86; 2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-84	<b>5103M</b> Std-.25-.50-.75MM		
1	Rod Set	90-84	<b>4-3485CP</b> Std-.25-.50-.75MM		
1	Bal. Shaft Set	90-84	<b>1810M</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-84	<b>260-1199</b>	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-84	<b>381-8099</b>	Eng. Code "G63B"	

KITS	RE-RING KIT				
	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-88	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-875</b> <b>205-875M</b>	<b>205-375</b> <b>205-375M</b>
	87	To 10/31/86; Exh. pipe packing not incl.; VIN Code "D"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-874</b> <b>205-874M</b>	<b>205-374</b> <b>205-374M</b>
	87	From 11/1/86; Exh. pipe packing not incl.; VIN Code "D"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-875</b> <b>205-875M</b>	<b>205-375</b> <b>205-375M</b>
86-84	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-874</b> <b>205-874M</b>	<b>205-374</b> <b>205-374M</b>	

**12 2.0L 122 (1997cc) DOHC L4 (16 Valve), 85mm Bore (Mitsubishi Eng.) 1990-89**  
 VIN Codes "E" 1993-94, "R" 1989-93, Eng. Code "4G63" 1989-94

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90	<b>222-B167</b>	
	1	Timing Belt Tensioner	90	<b>222-327BT</b>	
	1	Timing Belt & Tensioner Set	90	<b>BTS-167</b>	
	1	Bal. Shaft Belt	90	<b>222-B168</b>	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter	90	<b>HT-2274</b> Std Only	Hyd. lash adj.
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	90-89	<b>V-2653</b> Std Only	Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
	8	Exhaust, Bulk	90-89	<b>V-2653B</b> Std Only	Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
8	Intake	90-89	<b>V-2652</b> Std Only	Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
8	Intake, Bulk	90-89	<b>V-2652B</b> Std Only	Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	90-89	<b>VG-903</b>	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.	
8	Guide	90-89	<b>VG-904</b>	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
16	Spring	90-89	<b>VS-1535</b>	1.8000" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	90-89	<b>ST-2056</b>	Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Int.	90	<b>245-1437-68</b> Std Only	1.4445" OD, 1.1350" ID, .3165" Depth	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.0L 122 (1997cc) DOHC L4 (16 Valve), 85mm Bore (Mitsubishi Eng.) 1990-89 12**

VIN Codes "E" 1993-94, "R" 1989-93, Eng. Code "4G63" 1989-94 (cont.)

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-89	<b>245-1312-64</b> Std Only	1.3190" OD, 1.0450" ID, .3165" Depth
32	VALVE, MISC Keeper	90-89	<b>PK-230</b>	DESCRIPTION
4	PISTON Cast Piston	90	<b>13507P</b> Std Only	DESCRIPTION Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 35.0mm CD, 21.0mm Pin Dia., Recessed Head 2.10mm deep x 75.00mm dia. w/4 valve reliefs
4	Cast Piston - Individual	90	<b>W13507P</b> Std Only	DESCRIPTION Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 35.0mm CD, 21.0mm Pin Dia., Recessed Head 2.10mm deep x 75.00mm dia. w/4 valve reliefs
1	RINGS Premium Set	90	<b>E-522KC</b> Std-.50-.75-1.00MM	DESCRIPTION 1-1.20MM, 1-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	<b>WE-522KC</b> Std-1.00MM	DESCRIPTION 1-1.20MM, 1-1.50MM, 1-3.00MM
1	ENGINE BEARINGS Main Set	90-89	<b>5103M</b> Std-.25-.50-.75MM	DESCRIPTION
1	Rod Set	90-89	<b>4-3485CP</b> Std-.25-.50-.75MM	
1	Bal. Shaft Set	90-89	<b>1810M</b>	
1	OIL PUMP Oil Pump	90	<b>224-43602</b>	DESCRIPTION Eng. Code "4G63"
1	GASKETS Kit Gasket Set	90-89	<b>260-1704</b>	DESCRIPTION Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>
90	DESCRIPTION Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	<b>205-6328</b>
			Re-ring w/Mains	<b>205-6328M</b>
				<b>ECONOMY KIT NO.</b>
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<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>
90	DESCRIPTION Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. 13507P piston		Block	<b>BK-6296</b>
				<b>ECONOMY KIT NO.</b>
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**2.0L 122 (1997cc) DOHC Turbo L4 (16 Valve), 85mm Bore (Mitsubishi Eng.) 1990 13**

VIN Codes "F" 1993-98, "U" 1989-92, Eng. Code "4G63-T" 1989-98

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	<b>222-B167</b>	
1	Timing Belt Tensioner	90	<b>222-327BT</b>	
1	Timing Belt & Tensioner Set	90	<b>BTS-167</b>	
1	Bal. Shaft Belt	90	<b>222-B168</b>	
16	CAMSHAFT/LIFTER Lifter	90	<b>HT-2274</b> Std Only	DESCRIPTION Hyd. lash adj.
8	VALVE Exhaust	90	<b>V-2653</b> Std Only	DESCRIPTION Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
8	Exhaust, Bulk	90	<b>V-2653B</b> Std Only	DESCRIPTION Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
8	Intake	90	<b>V-2652</b> Std Only	DESCRIPTION Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
8	Intake, Bulk	90	<b>V-2652B</b> Std Only	DESCRIPTION Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
8	VALVE GUIDE Guide	90	<b>VG-903</b>	DESCRIPTION Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.
8	Guide	90	<b>VG-904</b>	DESCRIPTION Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.
16	VALVE SPRING Spring	90	<b>VS-1535</b>	DESCRIPTION 1.8000" Free Height
16	VALVE SEAL Valve Stem Seal	90	<b>ST-2056</b>	DESCRIPTION Positive type; Rubber
8	VALVE SEAT Exh.	90	<b>245-1312-64</b> Std Only	DESCRIPTION 1.3190" OD, 1.0450" ID, .3165" Depth
8	Int.	90	<b>245-1437-68</b> Std Only	DESCRIPTION 1.4445" OD, 1.1350" ID, .3165" Depth
8	VALVE, MISC Keeper	90	<b>VK-230</b>	DESCRIPTION
1	RINGS Premium Set	90	<b>E-522KC</b> Std-.50-.75-1.00MM	DESCRIPTION 1-1.20MM, 1-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	<b>WE-522KC</b> Std-1.00MM	DESCRIPTION 1-1.20MM, 1-1.50MM, 1-3.00MM

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

<b>13 2.0L 122 (1997cc) DOHC Turbo L4 (16 Valve), 85mm Bore (Mitsubishi Eng.) 1990</b>							
(cont.) VIN Codes "F" 1993-98, "U" 1989-92, Eng. Code "4G63-T" 1989-98							
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Main Set	90	5103M	Std-.25-.50-.75MM		
	1	Rod Set	90	4-3485CP	Std-.25-.50-.75MM		
1	Bal. Shaft Set	90	1810M				
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	90	260-1704	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.		
YEARS	DESCRIPTION						
90	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-6328 205-6328M ----- -----		

<b>14 2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81</b>						
VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.)						
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
	1	Bal. Shaft Chain	90	222-2SR60	60 Links	
	1	Bal. Shaft Chain Guide	90-89	222-297GP		
	1	Timing Belt	90-89	222-153		
	1	Timing Belt	88-81	222-71		
	1	Timing Belt Tensioner	90-89	222-192BT		
	1	Timing Belt Tensioner	88-81	222-91BT		
	1	Timing Belt & Tensioner Set	90-89	BTS-153		
	1	Timing Belt & Tensioner Set	88-81	BTS-71		
	1	Bal. Shaft Belt Tensioner	90	222-1298BT		
	1	Crank Sprocket	90	223-640	36 Teeth	
	1	Bal. Shaft Sprocket	90	223-642	18 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90-88	CS-785			
1	Camshaft	90-88	CS-922	w/.020" O/S journals		
8	Lifter	90-81	HT-2105	Std Only Hyd. lash adj.		
8	Lifter, Bulk	90-81	HT-2105B	Std Only Hyd. lash adj.; Carton of 247		
1	Prelube	90-81	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	90-88	KC-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B		
1	Cam/Flwr. Kit	90-88	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B		
1	Cam/Lifter/Flwr. Kit	90-88	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B		
1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B		
1	Cam/Lifter/Timing Kit	88	KCT-785D	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-71, (1) 55-403B		
1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B		
1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B		
1	Cam/Lifter/Flwr./Timing Kit	88	KCT-785F	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-71, (1) 55-403B		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Arm	90-88	R-951			
8	Arm	87-81	R-912			
8	Arm, Bulk	90-88	R-951B	Carton of 32		
8	Arm, Bulk	87-81	R-912B	Carton of 64		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	90-88	V-2427	Std-15 w/TBI; 4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Exhaust	87	V-2427	Std-15 w/TBI; 4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Exhaust	87	V-2194	Std Only w/2 Bbl. Carb.; Omni & Horizon; Chrome plated stem; 1.3937" Head Dia., .3106" Stem Dia., 4.4420" O.A.L.		
4	Exhaust	86	V-2427	Std-15 w/2 Bbl. Carb.; Exc. Omni & Horizon; 4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Exhaust	86	V-2194	Std Only w/2 Bbl. Carb.; Omni & Horizon; Chrome plated stem; 1.3937" Head Dia., .3106" Stem Dia., 4.4420" O.A.L.		
4	Exhaust	85-81	V-2194	Std Only Chrome plated stem; 1.3937" Head Dia., .3106" Stem Dia., 4.4420" O.A.L.		
4	Exhaust, Bulk	90-88	V-2427B	Std-15 w/TBI; 4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Exhaust, Bulk	87	V-2427B	Std-15 w/TBI; 4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81 14**

VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.) (cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
4	Exhaust, Bulk	86	<b>V-2427B</b> Std-15	w/2 Bbl. Carb.; Exc. Omni & Horizon; 4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.
4	Intake	90-88	<b>V-2428</b> Std Only	w/TBI; Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.
4	Intake	87	<b>V-2428</b> Std Only	w/TBI; Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.
4	Intake	86	<b>V-2428</b> Std Only	w/2 Bbl. Carb.; Exc. Omni & Horizon; Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-81	<b>VG-700</b>	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.
4	Guide	90-81	<b>VG-870</b>	Exh.; .3145" ID, 1.6930" O.A.L.
4	Guide	90-81	<b>VG-701</b>	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.
4	Guide	90-81	<b>VG-869</b>	Int.; .3145" ID, 1.5750" O.A.L.
4	Guide, Bulk	90-81	<b>VG-700B</b>	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.
4	Guide, Bulk	90-81	<b>VG-701B</b>	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-88	<b>VS-1457</b>	Exh. & Int.; 2.2250" Free Height
8	Spring, Bulk	90-88	<b>VS-1457B</b>	Exh. & Int.; Carton of 250; 2.2250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-81	<b>ST-2015</b>	Positive type; Viton®
8	Valve Stem Seal	90-81	<b>MV-1919</b>	Umbrella type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-81	<b>245-1500-63</b> Std Only	1.5070" OD, 1.2100" ID, .3450" Depth
4	Int.	90-81	<b>245-1687-51</b> Std Only	1.6945" OD, 1.3900" ID, .3050" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	90-81	<b>VK-225</b>	Exh.; 4 groove
8	Keeper	90-81	<b>VK-144</b>	Int.; 1 groove; Square cut key groove
8	Keeper	90-81	<b>VK-144R</b>	Int.; 1 groove; Square cut key groove; Hardened
8	Keeper, Bulk	90-81	<b>VK-144B</b>	Int.; 1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	90-81	<b>259-821B</b>	.060"; Case hardened; Carton of 48
8	Spring Insert	88-86	<b>259-820B</b>	.030"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90	<b>527P</b> Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
4	Cast Piston	89-87	<b>527P</b> Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
4	Cast Piston	86	<b>527P</b> Std.-50-.75-1.00MM	From 3/27/86; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
4	Cast Piston - Individual	90	<b>W527P</b> Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
4	Cast Piston - Individual	89-87	<b>W527P</b> Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
4	Cast Piston - Individual	86	<b>W527P</b> Std.-50-.75-1.00MM	From 3/27/86; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	<b>E-454K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	86	<b>E-418K</b> Std.-50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM
1	Premium Set	86	<b>E-454K</b> Std.-50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM
1	Premium Set	85-81	<b>E-418K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-87	<b>E-454X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	86	<b>E-418X</b> Std.-50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM
1	Standard Set	86	<b>E-454X</b> Std.-50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM
1	Standard Set	85-81	<b>E-418X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-87	<b>WE-454K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	86	<b>WE-418K</b> Std.-50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	86	<b>WE-454K</b> Std.-50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	85-81	<b>WE-418K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-81	<b>6678MA</b> Std.-25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-81	<b>4-3800CPA</b> Std.-25-.50-.75-1.00MM	
4	Rod Pair	90-81	<b>3800CPA</b> Std.-026-.25-.50-.75-1.00MM	
1	Cam Set	90-81	<b>1840M</b> Std Only	
1	Aux. Shaft Set	90-81	<b>1487M</b>	
1	Bal. Shaft Set	90	<b>1792MSEMI</b>	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-86	<b>224-4168</b>	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**14** 2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81  
 (cont.) VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.)

QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	85-81	224-4168S	w/screen		
1	Screen Assy.	90-88	224-1268			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	90-89	260-1427	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-89	260-1616	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-89	260-1425	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	88-81	260-1093	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		
1	Head Bolt Set	90-85	260-2501	Replacement recommended; 11MM Head bolts		
1	Head Bolt Set	85-81	260-2505	Replacement recommended; 10MM Head bolts		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-81	381-8050			
RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION					
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6093M	205-1093M	
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6093	205-1093	
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6097M	205-1097M	
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6097	205-1097	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6205M	205-1205M	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6205	205-1205	
88-87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains		205-869M	205-369M	
88-87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring		205-869	205-369	
86	VIN Code "C"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains		205-681M	205-181M	
86	VIN Code "C"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring		205-681	205-181	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81 **14**

VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.) (cont.)

	RE-RING KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>			
	86	VIN Code "D"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains  205-869M	205-369M	
	86	VIN Code "D"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring  205-869	205-369	
	85-81	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains  205-681M	205-181M	
	85-81	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring  205-681	205-181	
	<b>OVERHAUL KIT</b>				
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master  MKP-6093A	MKP-6093A	MKP-1093A
	90	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains  505-6093A	505-6093A	505-1093A
	90	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons  MK-6093C	MK-6093C	MK-1093C
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons  ----		MK-1205A	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons  MK-6205A	MK-6205A	----	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons  MK-6205B	MK-6205B	----	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master  MKP-6205C	MKP-6205C	----	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Freeze plugs not incl.	Master w/o Rods & Mains  505-6205C	505-6205C	----	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master  MKP-6217A	MKP-6217A	MKP-1217A	
90	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains  505-6217A	505-6217A	505-1217A	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**14** 2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81  
 (cont.) VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.)

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master	MKP-6361	----
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6199	----
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6199	----
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6200	----
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6200	----
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6201	----
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6201	----
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-7057	----
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-7057	----
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. A-series aluminum bearings	Master	MKP-7057	----
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-7058 MK-7058	MKP-2058 MK-2058
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-7058	505-2058
89	Exc. Medallion; w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master	MKP-6093A	MKP-1093A
89	Exc. Medallion; w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6093A	505-1093A

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## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-81 14**

VIN Codes "B" 1981-82, "C" 1983-88, "D" 1983-94, "F" 1983-86 (Hi-Perf.), "8" 1983-88 (H.O.) (cont.)

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>		
	89	Exc. Medallion; w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons <b>MK-6093C</b>	<b>MK-1093C</b>
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons ----	<b>MK-1205A</b>
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons <b>MK-6205A</b>	----
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons <b>MK-6205B</b>	----
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master <b>MKP-6205C</b>	----
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Freeze plugs not incl.	Master w/o Rods & Mains <b>505-6205C</b>	----
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master <b>MKP-6217A</b>	<b>MKP-1217A</b>
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains <b>505-6217A</b>	<b>505-1217A</b>
	89	Exc. Medallion; w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master <b>MKP-6361</b>	----
	88	Exc. Medallion; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons <b>MKP-869C</b> <b>MK-869C</b>	<b>MKP-369C</b> <b>MK-369C</b>
	88	Exc. Medallion; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam seal w/52.45mm OD (yellow marking) not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains <b>505-869C</b>	<b>505-369C</b>

**2.2L 135 (2212cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-84 15**

VIN Codes "A" 1987-89, "C" 1990, "E" 1984-89, "P" 1989

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Bal. Shaft Chain	90	<b>222-2SR60</b>	60 Links
1	Timing Belt	90-89	<b>222-153</b>	
1	Timing Belt	88-84	<b>222-71</b>	
1	Timing Belt Tensioner	90-89	<b>222-192BT</b>	
1	Timing Belt Tensioner	88-84	<b>222-91BT</b>	
1	Timing Belt & Tensioner Set	90	<b>BTS-153</b>	
1	Timing Belt & Tensioner Set	88-84	<b>BTS-71</b>	
1	Crank Sprocket	90	<b>223-640</b>	36 Teeth
1	Bal. Shaft Sprocket	90	<b>223-642</b>	18 Teeth

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**15** 2.2L 135 (2212cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-84

(cont.) VIN Codes "A" 1987-89, "C" 1990, "E" 1984-89, "P" 1989

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-785	
1	Camshaft	90-88	CS-922	w/.020" O/S journals
1	Camshaft	87-84	CS-775	
8	Lifter	90-84	HT-2105 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-84	HT-2105B Std Only	Hyd. lash adj.; Carton of 247
1	Prelube	90-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B
1	Cam/Lifter Kit	87-84	KC-775	Hyd.; Incl. (1) CS-775, (8) HT-2105, (1) 55-403B
1	Cam/Flwr. Kit	90-88	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B
1	Cam/Flwr. Kit	87-84	KC-775A	Incl. (1) CS-775, (8) R-912, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	90-88	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	87-84	KC-775C	Hyd.; Incl. (1) CS-775, (8) HT-2105, (8) R-912, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	KCT-785D	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-71, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-84	KCT-775	Hyd.; Incl. (1) CS-775, (8) HT-2105, (1) 222-71, (1) 55-403B
1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Flwr./Timing Kit	87-84	KCT-775A	Incl. (1) CS-775, (8) R-912, (1) 222-71, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	88	KCT-785F	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-71, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	87-84	KCT-775C	Hyd.; Incl. (1) CS-775, (8) HT-2105, (8) R-912, (1) 222-71, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-88	R-951	
8	Arm	87-84	R-912	
8	Arm, Bulk	90-88	R-951B	Carton of 32
8	Arm, Bulk	87-84	R-912B	Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-87	V-3940 Std Only	w/Intercooler; Chrome plated stem; 1.3940" Head Dia., .3116" Stem Dia., 4.5220" O.A.L.
4	Exhaust	86	V-3940 Std Only	Chrome plated stem; 1.3940" Head Dia., .3116" Stem Dia., 4.5220" O.A.L.
4	Intake	90-87	V-2434 Std Only	w/Intercooler; Chrome plated stem; 1.5984" Head Dia., .3127" Stem Dia., 4.4990" O.A.L.
4	Intake	86	V-2434 Std Only	Chrome plated stem; 1.5984" Head Dia., .3127" Stem Dia., 4.4990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-84	VG-700	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.
4	Guide	90-84	VG-870	Exh.; .3145" ID, 1.6930" O.A.L.
4	Guide	90-84	VG-701	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.
4	Guide	90-84	VG-869	Int.; .3145" ID, 1.5750" O.A.L.
4	Guide, Bulk	90-84	VG-700B	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.
4	Guide, Bulk	90-84	VG-701B	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-88	VS-1457	2.2250" Free Height
8	Spring, Bulk	90-88	VS-1457B	Carton of 250; 2.2250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-84	ST-2015	Positive type; Viton®
8	Valve Stem Seal	90-84	MV-1919	Umbrella type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-84	245-1500-63 Std Only	1.5070" OD, 1.2100" ID, .3450" Depth
4	Int.	90-84	245-1687-51 Std Only	1.6945" OD, 1.3900" ID, .3050" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	90-84	VK-225	Exh.; 4 groove
8	Keeper	90-84	VK-144	Int.; 1 groove; Square cut key groove
8	Keeper	90-84	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
8	Keeper, Bulk	90-84	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	90-84	259-821B	.060"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-86	533P Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.
4	Cast Piston - Individual	90-86	W533P Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.2L 135 (2212cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-84 15**  
VIN Codes "A" 1987-89, "C" 1990, "E" 1984-89, "P" 1989 (cont.)

	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
BLOCK	1	Premium Set	90-84	<b>E-453K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	90-84	<b>WE-453K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-84	<b>6678MA</b> Std.-25-.50-.75MM	<b>A-Series aluminum bearings</b>	
	1	Rod Set	90-84	<b>4-3800CPA</b> Std.-25-.50-.75-1.00MM		
	4	Rod Pair	90-84	<b>3800CPA</b> Std.-026-.25-.50-.75-1.00MM		
	1	Aux. Shaft Set	90-84	<b>1487M</b>		
	1	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	90-86	<b>224-4168</b>		
	1	Oil Pump	85-84	<b>224-4168S</b>	w/screen	
1	Screen Assy.	90	<b>224-1568</b>			
1	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-89	<b>260-1549</b>	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-88	<b>260-1426</b>	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	88	<b>260-1276</b>	Valve cover gskts. not incl.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	87-84	<b>260-1276</b>	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		
1	Head Bolt Set	90-85	<b>260-2501</b>	Replacement recommended; 11MM Head bolts		
1	Head Bolt Set	85-84	<b>260-2505</b>	Replacement recommended; 10MM Head bolts		
1	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-84	<b>381-8050</b>			
KITS	<b>RE-RING KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-6094M</b>	----
	90-88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6094</b>	----
	88	Valve cover gskts. not incl.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-868M</b>	----
	88	Valve cover gskts. not incl.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring		<b>205-868</b>	----
	87-84	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-868M</b>	----
	87-84	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring		<b>205-868</b>	----
	<b>OVERHAUL KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Pistons		<b>MK-6094A</b>	----	
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master		<b>MKP-6094C</b>	----	
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		<b>505-6094C</b>	----	
90-89	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		<b>BK-6207</b>	----	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 15 2.2L 135 (2212cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-84

(cont.) VIN Codes "A" 1987-89, "C" 1990, "E" 1984-89, "P" 1989

K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	90-88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	<b>BKP-6206</b>	----	
	90-88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	<b>BK-6206</b>	----	
	88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6094D</b> <b>MK-6094D</b>	----	
	88	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6094D</b>	----	
	87-86	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-868C</b> <b>MK-868C</b>	----	
	87-86	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-868C</b>	----	

## 16 2.2L 135 (2212cc) DOHC Turbo L4 (16 Valve), 87.5mm Bore 1990-89

VIN Codes "A" 1989-93, "P" 1989-90, "R" 1989-90

B L O C K	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Timing Belt & Tensioner Set	89	<b>BTS-153</b>		
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	90-89	<b>E-453K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	90-89	<b>WE-453K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	90-89	<b>6678MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
	1	Rod Set	90-89	<b>4-3800CPA</b> Std-.25-.50-.75-1.00MM		
	4	Rod Pair	90-89	<b>3800CPA</b> Std-.026-.25-.50-.75-1.00MM		
	1	Aux. Shaft Set	90-89	<b>1487M</b>		
	1	Bal. Shaft Set	90-89	<b>1792MSEMI</b>		
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	90-89	<b>224-4168</b>		
	1	Screen Assy.	90-89	<b>224-1268</b>		
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
	1	Brass Block Plug Kit	90-89	<b>381-8050</b>		

## 17 2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1989-88

VIN Codes "H" 1989, "Z" 1988

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	3 Piece Set	89-88	<b>KT3-3SR64S</b>	Incl. (1) 222-3SR64, (1) 223-607, (1) 223-608A	
	1	Timing Chain	89-88	<b>222-3SR64</b>	Single rlr.; 64 Links	
	1	Timing Chain Tensioner	89-88	<b>222-167CT</b>		
	1	Crank Sprocket	89-88	<b>223-607</b>	24 Teeth	
	1	Cam Sprocket	89-88	<b>223-608A</b>	48 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	88	<b>CS-779</b>	Hyd.	
	8	Lifter	89-88	<b>HT-2011</b> Std Only	Hyd.; Carton of 117	
	8	Lifter, Bulk	89-88	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117	
	1	Prelube	88	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	88	<b>KC-779</b>	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	88	<b>KCT-779</b>	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) KT3-3SR64S, (1) 55-403B	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	8	Push Rod	89-88	<b>RP-3236</b>	9.4860" O.A.L.	
	8	Push Rod, Bulk	89-88	<b>BRP-3236</b>	Carton of 100; 9.4860" O.A.L.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	4	Arm Assy.	89-88	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1989-88 17**  
VIN Codes "H" 1989, "Z" 1988 (cont.)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
4	Arm Assy., Bulk	89-88	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
8	Arm	89-88	<b>R-905A</b>	Stamped rocker arm
4	Bridge	89-88	<b>MR-1840</b>	
4	Pivot	89-88	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge
8	Pivot	89-88	<b>MR-1839</b>	Pivot only
<b>VALVE</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	89-88	<b>V-2526</b> Std-15	Chrome plated stem; w/radius key groove; 1.5000" Head Dia., .3108" Stem Dia., 4.9390" O.A.L.
4	Exhaust	89-88	<b>V-2295</b> Std Only	Chrome plated stem; Square cut key groove; 1.5000" Head Dia., .3115" Stem Dia., 4.9390" O.A.L.
4	Exhaust, Bulk	89-88	<b>V-2526B15</b> 15	Chrome plated stem; w/radius key groove; Carton of 25; 1.5000" Head Dia., .3258" Stem Dia., 4.9390" O.A.L.
4	Intake	89-88	<b>V-2527</b> Std-15	w/radius key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
4	Intake	89-88	<b>V-2294</b> Std Only	Chrome plated stem; Square cut key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
4	Intake, Bulk	89-88	<b>V-2527B15</b> 15	w/radius key groove; Carton of 25; 1.9100" Head Dia., .3265" Stem Dia., 4.9110" O.A.L.
<b>TRAIN</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	89	<b>VS-1456</b>	Conical design; 2.0160" Free Height
<b>VALVE SEAL</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Valve Stem Seal	89-88	<b>ST-2043</b>	Exh.; Positive type; Rubber
4	Valve Stem Seal	89-88	<b>ST-2044</b>	Int.; Positive type; Rubber
4	Valve Stem Seal Bulk	89-88	<b>ST-2043B</b>	Exh.; Positive type; Carton of 1000; Rubber
<b>VALVE SEAT</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exh.	89-88	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	89-88	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	89-88	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
<b>VALVE, MISC</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	89-88	<b>VK-216</b>	Radius cut; 1 groove
16	Keeper	89-88	<b>VK-144</b>	1 groove; Square cut key groove
16	Keeper	89-88	<b>VK-144R</b>	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	89-88	<b>VK-216B</b>	Radius cut; 1 groove; Carton of 1000
16	Keeper, Bulk	89-88	<b>VK-144B</b>	1 groove; Square cut key groove; Carton of 1000
<b>PISTON</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	89-88	<b>525CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	89-88	<b>525P</b> Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.
4	Cast Piston - Individual	89-88	<b>W525CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	89-88	<b>W525P</b> Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.
<b>RINGS</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	89-88	<b>E-450K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	89-88	<b>E-450X</b> Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set	89-88	<b>WE-450K</b> Std-20-30-40-60	2-5/64, 1-3/16
4	Standard Single Cylinder Set	89-88	<b>WE-450X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>ENGINE BEARINGS</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	89-88	<b>6676M</b> Std-10-20-30	
1	Rod Set	89-88	<b>4-3310CPA</b> Std-10-20-30-40	
4	Rod Pair	89-88	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60	
1	Cam Set	89-88	<b>1244M</b> Std-10	
<b>OIL PUMP</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	89-88	<b>224-41198</b>	Replaces pump w/cover having tab & slotted hole
1	Pump Repair Kit	89-88	<b>224-51198</b>	Use w/pump having cover w/tab & slotted hole
<b>GASKETS</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	89-88	<b>260-1192</b>	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
<b>FREEZE PLUGS</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	89-88	<b>381-8086</b>	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**17 2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1989-88**  
 (cont.) VIN Codes "H" 1989, "Z" 1988

RE-RING KIT	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	89-88	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-859 205-859M
OVERHAUL KIT	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	89-88	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Block w/Pump & Freeze Plugs	BKP-6187	----
	89-88	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block	BK-6187	----
	88	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master Master w/o Pistons Master w/o Rods & Mains	MKP-7050 MK-7050 505-7050	MKP-2050 MK-2050 505-2050
88	Freeze plugs not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master Master w/o Pistons Master w/o Rods & Mains	MKP-859A MK-859A 505-859A	MKP-359A MK-359A 505-359A	

**18 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-86**  
 VIN Codes "K" 1986-95, "V" 1993-94 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Bal. Shaft Chain	90-86	222-2SR60	60 Links
1	Bal. Shaft Chain Guide	90-86	222-297GP	
1	Timing Belt	90-89	222-153	
1	Timing Belt	88	222-132	
1	Timing Belt	87-86	222-114	
1	Timing Belt Tensioner	90-89	222-192BT	
1	Timing Belt Tensioner	88-86	222-191BT	
1	Timing Belt & Tensioner Set	90-89	BTS-153	
1	Bal. Shaft Belt Tensioner	90-86	222-1298BT	
1	Crank Sprocket	90-86	223-640	36 Teeth
1	Bal. Shaft Sprocket	90-86	223-642	18 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-785	
1	Camshaft	90-88	CS-922	w/.020" O/S journals
8	Lifter	90-86	HT-2105 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-86	HT-2105B Std Only	Hyd. lash adj.; Carton of 247
1	Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B
1	Cam/Flwr. Kit	90-88	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	90-88	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	KCT-785G	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-132, (1) 55-403B
1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Flwr./Timing Kit	88	KCT-785H	Incl. (1) CS-785, (8) R-951, (1) 222-132, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	88	KCT-785K	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-132, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-88	R-951	
8	Arm	87-86	R-912	
8	Arm, Bulk	90-88	R-951B	Carton of 32
8	Arm, Bulk	87-86	R-912B	Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-86	V-2427 Std-15	4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.
4	Exhaust, Bulk	90-86	V-2427B Std-15	4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.
4	Intake	90-86	V-2428 Std Only	Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-86	VG-700	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.
4	Guide	90-86	VG-870	Exh.; .3145" ID, 1.6930" O.A.L.
4	Guide	90-86	VG-701	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.
4	Guide	90-86	VG-869	Int.; .3145" ID, 1.5750" O.A.L.

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## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-86 **18**

VIN Codes "K" 1986-95, "V" 1993-94 (Flex Fuel) (cont.)

VALVE TRAIN	QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	4	Guide, Bulk	90-86	<b>VG-700B</b>	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.	
	4	Guide, Bulk	90-86	<b>VG-701B</b>	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.	
	8	Spring	90-88	<b>VS-1457</b>	2.2250" Free Height	
	8	Spring, Bulk	90-88	<b>VS-1457B</b>	Carton of 250; 2.2250" Free Height	
	8	Valve Stem Seal	90-86	<b>MV-1919</b>	Umbrella type; Viton®	
	4	Exh.	90-86	<b>245-1500-63</b> Std Only	1.5070" OD, 1.2100" ID, .3450" Depth	
	4	Int.	90-86	<b>245-1687-51</b> Std Only	1.6945" OD, 1.3900" ID, .3050" Depth	
	8	Keeper	90-86	<b>VK-225</b>	Exh.; 4 groove	
	8	Keeper	90-86	<b>VK-144</b>	Int.; 1 groove; Square cut key groove	
	8	Keeper	90-86	<b>VK-144R</b>	Int.; 1 groove; Square cut key groove; Hardened	
	8	Keeper, Bulk	90-86	<b>VK-144B</b>	Int.; 1 groove; Square cut key groove; Carton of 1000	
	8	Spring Insert	90-87	<b>259-820B</b>	.030"; Case hardened; Carton of 48	
	8	Spring Insert	90-86	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
	4	Cast Piston	90-89	<b>571CP</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .147" deep x 3.015" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	4	Cast Piston	88-86	<b>533P</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.	
	4	Cast Piston - Individual	90-89	<b>W571CP</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .147" deep x 3.015" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	4	Cast Piston - Individual	88-86	<b>W533P</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.	
	1	Premium Set	90-86	<b>E-454K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	Standard Set	90-86	<b>E-454X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	90-86	<b>WE-454K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	Main Set	90-86	<b>6678MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
	1	Rod Set	90-86	<b>4-3800CPA</b> Std-.25-.50-.75-1.00MM		
	4	Rod Pair	90-86	<b>3800CPA</b> Std-.026-.25-.50-.75-1.00MM		
	1	Cam Set	90-86	<b>1840M</b> Std Only		
	1	Aux. Shaft Set	90-86	<b>1487M</b>		
	1	Bal. Shaft Set	90-86	<b>1792MSEMI</b>		
	1	Oil Pump	90-86	<b>224-4168</b>		
	1	Screen Assy.	90-89	<b>224-1568</b>		
	1	Kit Gasket Set	90-89	<b>260-1425</b>	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	90-88	<b>260-1427</b>	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	90-88	<b>260-1616</b>	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	87-86	<b>260-1200</b>	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	
	1	Head Bolt Set	90-86	<b>260-2501</b>	Replacement recommended; 11MM Head bolts	
	1	Brass Block Plug Kit	90-86	<b>381-8050</b>		

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**18** 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-86  
 (cont.) VIN Codes "K" 1986-95, "V" 1993-94 (Flex Fuel)

RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6093M	205-1093M
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6093	205-1093
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6097M	205-1097M
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6097	205-1097
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6205M	205-1205M
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6205	205-1205
88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6097M	205-1097M
88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6097	205-1097
88	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6205M	205-1205M
88	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6205	205-1205
87-86	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-870M	205-370M
87-86	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring	205-870	205-370
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6093C MK-6093C	MKP-1093C MK-1093C
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6093C	505-1093C
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	----	MK-1205A

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-86 **18**

VIN Codes "K" 1986-95, "V" 1993-94 (Flex Fuel) (cont.)

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons MKP-6205A MK-6205A	----- MKP-1205A	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	----- 505-1205A	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6205B 505-1205B	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons MKP-6205B MK-6205B	----- MKP-1205B	
	90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6208 -----	
	90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6208 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6209 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6209 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6210 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6210 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-7057 -----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-7058 MK-2058	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master	MKP-7059 MKP-2059	
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-7059 505-2059	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**18 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-86**  
 (cont.) VIN Codes "K" 1986-95, "V" 1993-94 (Flex Fuel)

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-7060	----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	MKP-7060	----	
	88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	MKP-6097A MK-6097A	MKP-1097A MK-1097A	
	88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-6097A	505-1097A	

**19 2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89**  
 VIN Code "J" 1989-92

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Bal. Shaft Chain	90-89	222-2SR60	
	1	Timing Belt	90-89	222-153		
	1	Timing Belt Tensioner	90-89	222-192BT		
	1	Timing Belt & Tensioner Set	90-89	BTS-153		
	1	Crank Sprocket	90-89	223-640	36 Teeth	
	1	Bal. Shaft Sprocket	90-89	223-642	18 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	90-89	CS-785		
	1	Camshaft	90-89	CS-922	w/.020" O/S journals	
	8	Lifter	90-89	HT-2105 Std Only	Hyd. lash adj.	
	8	Lifter, Bulk	90-89	HT-2105B Std Only	Hyd. lash adj.; Carton of 247	
	1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	90-89	KC-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B	
	1	Cam/Flwr. Kit	90-89	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Flwr. Kit	90-89	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B	
	1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B	
	1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	8	Arm	90-89	R-951		
	8	Arm, Bulk	90-89	R-951B	Carton of 32	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	4	Exhaust	90-89	V-3940 Std Only	Chrome plated stem; 1.3940" Head Dia., .3116" Stem Dia., 4.5220" O.A.L.	
	4	Intake	90-89	V-2434 Std Only	Chrome plated stem; 1.5984" Head Dia., .3127" Stem Dia., 4.4990" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	4	Guide	90-89	VG-700	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.	
	4	Guide	90-89	VG-870	Exh.; .3145" ID, 1.6930" O.A.L.	
	4	Guide	90-89	VG-701	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.	
	4	Guide	90-89	VG-869	Int.; .3145" ID, 1.5750" O.A.L.	
	4	Guide, Bulk	90-89	VG-700B	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.	
	4	Guide, Bulk	90-89	VG-701B	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	8	Spring	90-89	VS-1457	2.2250" Free Height	
	8	Spring, Bulk	90-89	VS-1457B	Carton of 250; 2.2250" Free Height	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
	8	Valve Stem Seal	90-89	MV-1919	Umbrella type; Viton®	
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	4	Exh.	90-89	245-1500-63 Std Only	1.5070" OD, 1.2100" ID, .3450" Depth	
	4	Int.	90-89	245-1687-51 Std Only	1.6945" OD, 1.3900" ID, .3050" Depth	

(continued on next page)



# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89 **19**

VIN Code "J" 1989-92 (cont.)

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	90-89	VK-225	Exh.; 4 groove
8	Keeper	90-89	VK-144	Int.; 1 groove; Square cut key groove
8	Keeper	90-89	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
8	Keeper, Bulk	90-89	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	90-89	259-820B	.030"; Case hardened; Carton of 48
8	Spring Insert	90-89	259-821B	.060"; Case hardened; Carton of 48
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	90-89	H579P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .300" deep x 2.865" dia. w/2 valve reliefs
4	Cast Piston - Individual	90-89	WH579P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .300" deep x 2.865" dia. w/2 valve reliefs
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-89	E-453K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-89	WE-453K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-89	6678MA Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-89	4-3800CPA Std-.25-.50-.75-1.00MM	
4	Rod Pair	90-89	3800CPA Std-.026-.25-.50-.75-1.00MM	
1	Aux. Shaft Set	90-89	1487M	
1	Bal. Shaft Set	90-89	1792MSEMI	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	
1	Oil Pump	90-89	224-4168	
1	Screen Assy.	90-89	224-1568	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-89	260-1426	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-89	260-1549	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-89	260-2501	Replacement recommended; 11MM Head bolts
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	90-89	381-8050	
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6094M	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6094	----
<b>OVERHAUL KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6094A MK-6094A	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6094A	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6218	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6218	----
90-89	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6219	----

BLOCK

BLOCK

KITS

KITS

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 19 2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89

(cont.) VIN Code "J" 1989-92

### OVERHAUL KIT (cont.)

YEARS	DESCRIPTION	Block
90-89	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	

**PREMIUM  
KIT NO.  
BK-6219**

**ECONOMY  
KIT NO.  
-----**

## 20 2.6L 156 (2555cc) SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1985-78

VIN Codes "D" 1981-82, "F" 1978-80, "G" 1983-85, "7" 1981-83, Eng. Code "G54B" 1978-85

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	85-78	KT-1013S	Incl. sprockets, chain, tensioner & guides
1	Bal. Shaft Set	85-78	KT-1014S	Incl. sprockets, chain & guides
1	Timing Chain	85-78	222-3DR102	Double rlr.; 102 Links
1	Timing Chain Tensioner	85-78	222-49CT	
1	Timing Chain Guide	85-78	222-31GP	Slack Side
1	Timing Chain Guide	85-78	222-30GP	Tension Side
1	Bal. Shaft Chain Guide	85-78	222-51GP	Lower
1	Bal. Shaft Chain Guide	85-78	222-64GP	R.H.
1	Crank Sprocket	85-78	223-407	Outer; Single row; 34 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	85-83	CS-769	VIN Code "G"; w/Mech. lash adjusters
1	Camshaft	82-81	CS-769	VIN Code "D"; w/Mech. lash adjusters
1	Prelube	85-81	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	85	V-2313 Std Only	Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
4	Exhaust	84	V-2313 Std Only	From 6/84; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
4	Intake	85	V-2312 Std Only	1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
4	Intake	85-78	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
4	Intake	84	V-2312 Std Only	From 6/84; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	85-78	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	85-78	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	85	VS-1461	Exh. & Int.; 1.9600" Free Height
8	Spring	84	VS-1461	Exh. & Int.; From 6/84; 1.9600" Free Height
8	Spring, Bulk	85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 6/84; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	85-78	ST-2083	Exh. & Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	85-81	245-1875-51 Std Only	1.8820" OD, 1.5750" ID, .3170" Depth
4	Exh.	80-78	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
4	Int.	80-78	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85	VK-232	
16	Keeper	84	VK-232	From 6/84
8	Spring Insert	85-78	259-821B	.060"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	85-84	12220P.75MM .75-1.00MM	VIN Code "G"; Use w/E-439KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.2mm CD, 22.0mm Pin Dia., Recessed Head .200" deep x 2.670" dia.
4	Cast Piston	83	H589P.50MM .50-.75-1.00-1.50MM	To 4/83; VIN Code "G"; Use in sets only; Use w/E-425KC or E-425X ring set; Hypereutectic; 2-2.00mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Recessed Head .130" deep x 2.670" dia.; Not factory duplicate
4	Cast Piston	82-81	H589P.50MM .50-.75-1.00-1.50MM	VIN Code "D"; Use in sets only; Use w/E-425KC or E-425X ring set; Hypereutectic; 2-2.00mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Recessed Head .130" deep x 2.670" dia.; Not factory duplicate
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-84	E-439KC Std.-.50-.75-1.00-1.50MM	VIN Code "G"; 2-1.50MM, 1-4.00MM
1	Premium Set	83	E-439KC Std.-.50-.75-1.00-1.50MM	From 5/83; VIN Code "G"; 2-1.50MM, 1-4.00MM
1	Premium Set	83	E-425KC1.00MM 1.00MM	To 4/83; VIN Code "G"; 2-2.00MM, 1-4.00MM
1	Premium Set	82-81	E-425KC1.00MM 1.00MM	VIN Code "D"; 2-2.00MM, 1-4.00MM

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**2.6L 156 (2555cc) SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1985-78 20**  
 VIN Codes "D" 1981-82, "F" 1978-80, "G" 1983-85, "7" 1981-83, Eng. Code "G54B" 1978-85 (cont.)

	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION	
BLOCK	1	Premium Set	80	<b>E-425KC1.00MM</b> 1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM	
	1	Standard Set	85-84	<b>E-439X</b> Std.-50-.75-1.00MM	VIN Code "G"; 2-1.50MM, 1-4.00MM	
	1	Standard Set	83	<b>E-439X</b> Std.-50-.75-1.00MM	From 5/83; VIN Code "G"; 2-1.50MM, 1-4.00MM	
	1	Standard Set	83	<b>E-425X1.00MM</b> 1.00MM	To 4/83; VIN Code "G"; 2-2.00MM, 1-4.00MM	
	1	Standard Set	82-81	<b>E-425X1.00MM</b> 1.00MM	VIN Code "D"; 2-2.00MM, 1-4.00MM	
	1	Standard Set	80	<b>E-425X1.00MM</b> 1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM	
	4	Premium Single Cylinder Set	85-84	<b>WE-439KC</b> Std.-50-.75-1.00MM	VIN Code "G"; 2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	83	<b>WE-439KC</b> Std.-50-.75-1.00MM	From 5/83; VIN Code "G"; 2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	83	<b>WE-425KC</b> Std.-50-.75-1.00MM	To 4/83; VIN Code "G"; 2-2.00MM, 1-4.00MM	
	4	Premium Single Cylinder Set	82-81	<b>WE-425KC</b> Std.-50-.75-1.00MM	VIN Code "D"; 2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	80	<b>WE-425KC</b> Std.-50-.75-1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM		
BLOCK	QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	85-78	<b>6618M</b> Std.-25-.50-.75MM		
	1	Rod Set	85-78	<b>4-66675P</b> Std.-25-.50-.75-1.00MM		
	1	Cam Set	85-78	<b>1858M</b> Std Only		
	1	Aux. Shaft Set	85-78	<b>1805M</b>	Rear bal. shaft; Aux. shaft	
	QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	85-78	<b>224-41914</b>	Eng. Code "G54B"	
	QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	85-83	<b>260-1156</b>	VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	83-81	<b>260-1155</b>	VIN Code "7"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	82-81	<b>260-1156</b>	VIN Code "D"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	Head Bolt Set	85-78	<b>260-2513</b>	Replacement recommended		
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	85-78	<b>381-8051</b>			
KITS	<b>RE-RING KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	85-84	VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-747</b> <b>205-747M</b>	<b>205-247</b> <b>205-247M</b>
	83	To 4/30/83; VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-746</b> <b>205-746M</b>	----- -----
	83	From 5/1/83; VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-747</b> <b>205-747M</b>	<b>205-247</b> <b>205-247M</b>
	82-81	VIN Code "D"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-746</b> <b>205-746M</b>	----- -----
	<b>OVERHAUL KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	85-84	VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		<b>MKP-747C</b> <b>MK-747C</b>	----- <b>MK-247C</b>
	83	To 4/30/83; VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains		<b>MKP-746C</b> <b>MK-746C</b> <b>505-746C</b>	----- ----- -----
83	From 5/1/83; VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		<b>MK-747C</b>	<b>MK-247C</b>	
82-81	VIN Code "D"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains		<b>MKP-746C</b> <b>MK-746C</b> <b>505-746C</b>	----- ----- -----	

# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 21 2.6L 156 (2555cc) SOHC Turbo L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1989-84

VIN Codes "H" 1984-87, "N" 1985-89, Eng. Code "G54B-T" 1984-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	89-84	KT-1013S	Incl. sprockets, chain, tensioner & guides
1	Bal. Shaft Set	89-84	KT-1014S	Incl. sprockets, chain & guides
1	Timing Chain	89-84	222-3DR102	Double rlr.; 102 Links
1	Timing Chain Tensioner	87-84	222-49CT	
1	Timing Chain Guide	89-84	222-31GP	Slack Side
1	Timing Chain Guide	89-84	222-30GP	Tension Side
1	Bal. Shaft Chain Guide	89-84	222-51GP	Lower
1	Bal. Shaft Chain Guide	89-84	222-64GP	R.H.
1	Crank Sprocket	89-84	223-407	Outer; Single row; 34 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-86	CS-810	
8	Lifter	89-86	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	89-86	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	89-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	89-86	R-958	Exh.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	88	V-2313 Std Only	Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
4	Exhaust	87-85	V-2313 Std Only	Exc. Intercooled; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
4	Exhaust	84	V-2313 Std Only	From 6/84; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
4	Intake	89-85	V-2312 Std Only	1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
4	Intake	89-84	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
4	Intake	84	V-2312 Std Only	From 6/84; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-84	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	89-84	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	89-85	VS-1461	Exh. & Int.; 1.9600" Free Height
8	Spring	84	VS-1461	Exh. & Int.; From 6/84; 1.9600" Free Height
8	Spring, Bulk	89-85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 6/84; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	89-84	ST-2083	Exh. & Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	89-84	245-1875-51 Std Only	1.8820" OD, 1.5750" ID, .3170" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-85	VK-232	
16	Keeper	84	VK-232	From 6/84
8	Spring Insert	89-84	259-821B	.060"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	89-84	12220P.75MM .75-1.00MM	Use w/E-439KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.2mm CD, 22.0mm Pin Dia., Recessed Head .200" deep x 2.670" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-84	E-439KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	89-84	WE-439KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-84	6618M Std-.25-.50-.75MM	
1	Rod Set	89-84	4-66675P Std-.25-.50-.75-1.00MM	
1	Cam Set	89-84	1858M Std Only	
1	Aux. Shaft Set	89-84	1805M	Rear bal. shaft; Aux. shaft
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	89-84	224-41915	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87	260-1201	To 2/28/87; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86-84	260-1201	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

2.6L 156 (2555cc) SOHC Turbo L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1989-84 <b>21</b>						
VIN Codes "H" 1984-87, "N" 1985-89, Eng. Code "G54B-T" 1984-89 (cont.)						
QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Head Bolt Set	89-84	260-2513	Replacement recommended		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	89-84	381-8051			
K I T S	RE-RING KIT				PREMIUM	ECONOMY
	YEARS	DESCRIPTION			KIT NO.	KIT NO.
	87	To 2/28/87; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-871	----
	86-84	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-871 205-871M	---- ----
2.8L 170 OHV L6, 3.4063" Bore 1971-60 <b>22</b>						
VIN Code "A" 1966-71						
QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	3 Piece Set	71-60	KT3-495SA	Incl. (1) KT3-495SA		
1	Timing Chain	71-60	222-495	Silent type; 50 Links		
1	Crank Sprocket	71-60	223-291	Use w/silent type chain; 19 Teeth		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	69-60	CS-380			
12	Lifter	71-60	AT-2084 Std Only	Dumbbell shaped mech.		
12	Lifter, Bulk	71-60	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117		
1	Prelube	69-60	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	69-60	KC-380	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
12	Push Rod	71-60	RP-3079	8.5220" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
1	Rocker Shaft	71-60	RS-620			
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
6	Exhaust	71-60	V-4093 Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.		
6	Exhaust, Bulk	71-60	V-4093B15 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.		
6	Intake	71-60	V-1434 Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
6	Guide	71-60	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
12	Spring	71-60	VS-510	2.0000" Free Height		
12	Spring, Bulk	71-60	VS-510B	Carton of 250; 2.0000" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
12	Valve Stem Seal	71-60	ST-2014	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE		
6	Valve Stem Seal	71-60	ST-2004	Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE		
6	Valve Stem Seal	71-63	MV-1918	Exh.; Umbrella type; Viton®		
6	Valve Stem Seal	69-63	MV-1771C	Int.; Umbrella type; Polyacrylate		
6	Valve Stem Seal	62-61	MV-1599C	Int.; Umbrella type; Rubber		
12	Valve Stem Seal Bulk	71-60	ST-2014BC	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE		
6	Valve Stem Seal Bulk	71-60	ST-2004BC	Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
6	Valve Stem Seal Bulk	69-63	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate		
6	Valve Stem Seal Bulk	62-61	MV-1599	Int.; Umbrella type; Carton of 100; Rubber		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
6	Exh.	71-60	245-1437-1 Std Only	1.4420" OD, 1.2500" ID, .2160" Depth		
6	Int.	71-60	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth		
6	Int.	71-60	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
12	Keeper	71-60	VK-174	Exh.; 4 groove		
12	Keeper	71-60	VK-174R	Exh.; 4 groove; Hardened		
12	Keeper	71-60	VK-66	Int.; 2 groove		
12	Keeper	71-60	VK-66R	Int.; 2 groove; Hardened		
12	Spring Insert	71-60	259-103C	.015"; ID 1.030"; Carton of 100		
12	Spring Insert	71-60	259-103B	.030"; ID 1.030"; Carton of 100		
12	Spring Insert	71-60	259-103BRS	.030"; ID 1.030"; Carton of 500		
12	Spring Insert	71-60	259-103A	.060"; ID 1.030"; Carton of 100		

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 22 2.8L 170 OHV L6, 3.4063" Bore 1971-60

(cont.) VIN Code "A" 1966-71

	QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
	12	Spring Insert	71-60	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
	6	Rotocap	69-61	<b>RC-78S</b>	
BLOCK	6	<b>PISTON</b> Cast Piston	71-60	<b>244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
	6	Cast Piston - Individual	71-60	<b>W244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
	1	<b>RINGS</b> Premium Set	71-60	<b>E-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	Standard Set	71-60	<b>E-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
	6	Premium Single Cylinder Set	71-60	<b>WE-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
	6	Standard Single Cylinder Set	71-60	<b>WE-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	<b>ENGINE BEARINGS</b> Main Set	71-60	<b>4092M</b> Std-10-20-30	
	1	Rod Set	71-60	<b>6-2375CP</b> Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable
	6	Rod Pair	71-60	<b>2375CP</b> Std-10-20-30-40	
	1	Cam Set	71-60	<b>1454M</b> Std Only	
	1	<b>OIL PUMP</b> Oil Pump	71-60	<b>224-4165C</b>	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump
	1	Oil Pump	71-60	<b>224-4165V</b>	High Volume; Will replace 5 bolt pump
1	<b>GASKETS</b> Kit Gasket Set	71-62	<b>260-1004</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	61-60	<b>260-1004</b>	w/1 Bbl. Carb.; Premium valve stem seals incl.	
1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	71-60	<b>381-8012</b>		

	YEARS	RE-RING KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	71-62	Premium valve stem seals incl.	Re-ring	<b>205-602</b>	<b>205-102</b>
			Re-ring w/Mains	<b>205-602M</b>	<b>205-102M</b>
	61-60	w/1 Bbl. Carb.; Premium valve stem seals incl.	Re-ring	<b>205-602</b>	<b>205-102</b>
			Re-ring w/Mains	<b>205-602M</b>	<b>205-102M</b>
KITS		<b>OVERHAUL KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	69-62	Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master	<b>MKP-602A</b>	<b>MKP-102A</b>
			Master w/o Pistons	<b>MK-602A</b>	<b>MK-102A</b>
	69-62	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	<b>505-602A</b>	<b>505-102A</b>
	61-60	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master	<b>MKP-602A</b>	<b>MKP-102A</b>
		Master w/o Pistons	<b>MK-602A</b>	<b>MK-102A</b>	
61-60	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	<b>505-602A</b>	<b>505-102A</b>	

## 23 3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-88

VIN Codes "H" 1993-96, "S" 1990-92, "3" 1988-95, Eng. Code "6G72" 1988-96

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90-88	<b>222-139</b>	
	1	Timing Belt Tensioner	90-88	<b>222-195BT</b>	
	1	Timing Belt & Tensioner Set	90-88	<b>BTS-139</b>	
VALVE TRAIN	1	<b>CAMSHAFT/LIFTER</b> Camshaft	90	<b>CS-865</b>	L.H. Front; 16" length w/gear; Hyd. rlr.
	1	Camshaft	90	<b>CS-864</b>	R.H. Rear; 14.5" length; Hyd. rlr.
	1	Camshaft	89-88	<b>CS-820</b>	L.H. Front; 16" length w/gear
	1	Camshaft	89-88	<b>CS-822</b>	R.H. Rear; 14.5" length
	12	Lifter	90-88	<b>HT-6000</b> Std Only	Hyd. lash adj.
	12	Lifter, Bulk	90-88	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-88	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	<b>CAM KIT</b> Cam/Lifter Kit	90	<b>KC-865</b>	Front; Incl. 16" L.H. Front rlr. camshaft w/gear; Incl. (1) CS-865, (6) HT-6000, (1) 55-403B
	1	Cam/Lifter Kit	90	<b>KC-866</b>	Front & Rear; Incl. 14.5" R.H. Rear & 16" L.H. Front rlr. camshafts w/gear; Incl. (1) CS-864, (1) CS-865, (6) HT-6000, (1) 55-403B

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-88 23**  
 VIN Codes "H" 1993-96, "S" 1990-92, "3" 1988-95, Eng. Code "6G72" 1988-96 (cont.)

QTY	PART NO.	YEARS	DESCRIPTION
1	<b>CAM KIT</b> (cont.) Cam/Lifter Kit	90	<b>KC-864</b> Rear; Incl. 14.5" R.H. Rear rlr. camshaft w/gear; Incl. (1) CS-864, (6) HT-6000, (1) 55-403B
12	<b>ROCKER PARTS</b> Arm	90-88	<b>R-1003</b> w/Mech. lifters
12	Arm	90-88	<b>R-1122</b> w/Rlr. lifters
1	Rocker Shaft	90-88	<b>RS-699</b> L.H. Front
1	Rocker Shaft	90-88	<b>RS-700</b> R.H. Rear
6	<b>VALVE</b> Exhaust	90-88	<b>V-3952</b> Std Only Nitrided stem; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Exhaust, Bulk	90-88	<b>V-3952B</b> Std Only 1 groove; Nitrided stem; Carton of 25; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Intake	90-88	<b>V-2563</b> Std Only Nitrided stem; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
6	Intake, Bulk	90-88	<b>V-2563B</b> Std Only Nitrided stem; Carton of 25; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
6	<b>VALVE GUIDE</b> Guide	90-88	<b>VG-13152</b> Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
6	Guide	90-88	<b>VG-1315</b> Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
6	Guide	90-88	<b>VG-710</b> Int.; .3155" ID, 1.7280" O.A.L.
6	Guide, Bulk	90-88	<b>VG-1315B</b> Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
12	<b>VALVE SPRING</b> Spring	90-88	<b>VS-1461</b> Exh. & Int.; 1.9600" Free Height
12	Spring, Bulk	90-88	<b>VS-1461B</b> Exh. & Int.; Carton of 250; 1.9600" Free Height
12	<b>VALVE SEAL</b> Valve Stem Seal	90	<b>ST-2037</b> Positive type; Rubber
6	<b>VALVE SEAT</b> Exh.	90-88	<b>245-1562-69</b> Std Only 1.5695" OD, 1.2190" ID, .3170" Depth
6	Int.	90-88	<b>245-1750-61</b> Std Only 1.7570" OD, 1.4450" ID, .3100" Depth
24	<b>VALVE, MISC</b> Keeper	90-88	<b>VK-232</b>
6	<b>PISTON</b> Cast Piston	90-88	<b>H834CP</b> Std.-50-.75-1.00-1.50MM Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	90-88	<b>WH834CP</b> Std.-50-.75-1.00-1.50MM Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90-88	<b>6KH834CP</b> Std.-50-.75-1.00MM Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	<b>RINGS</b> Premium Set	90-88	<b>E-528KC</b> Std.-50-.75-1.00MM 2-1.50MM, 1-4.00MM
1	Standard Set	90-88	<b>E-528X</b> Std.-50-.75-1.00MM 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-88	<b>WE-528KC</b> Std.-50-.75-1.00MM 2-1.50MM, 1-4.00MM
1	<b>ENGINE BEARINGS</b> Main Set	90-88	<b>7090M</b> Std.-25-.50-.75MM
1	Thrust Washer Set	90-88	<b>1736AF</b> Std Only Position 3
1	Rod Set	90-88	<b>6-1735CP</b> Std.-25-.50-.75MM
1	<b>OIL PUMP</b> Oil Pump	90-88	<b>224-42000</b> VIN Code "3"
1	Pump Repair Kit	90-88	<b>224-51385</b> VIN Code "3"
1	Screen Assy.	90-88	<b>224-15048</b> VIN Code "3"
1	<b>GASKETS</b> Kit Gasket Set	90-88	<b>260-1432</b> Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl. Replacement recommended
1	Head Bolt Set	90-88	<b>260-2516</b>
1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	90-88	<b>381-8090</b> Eng. Code "6G72"

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**23 3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-88**  
 (cont.) VIN Codes "H" 1993-96, "S" 1990-92, "3" 1988-95, Eng. Code "6G72" 1988-96

K I T S	RE-RING KIT			PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
	90-88	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6102 205-6102M	205-1102 205-1102M	
K I T S	OVERHAUL KIT			PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
	90	VIN Code "3"; Head bolts not incl.; Freeze plugs not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6329A MK-6329A 505-6329A	MKP-1329A MK-1329A 505-1329A	
	90-88	Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	BK-6254	----	
90-88	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block w/Pump & Freeze Plugs	BKP-6254	----		

**24 3.2L 198 OHV L6, 3.4063" Bore 1974-70**  
 VIN Code "B" 1970-74

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	3 Piece Set	74-70	KT3-495SA	
	1	Timing Chain	74-70	222-495	Silent type; 50 Links	
	1	Crank Sprocket	74-70	223-291	Use w/silent type chain; 19 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	74-70	CS-380		
	12	Lifter	74-70	AT-2084 Std Only	Dumbbell shaped mech.	
	12	Lifter, Bulk	74-70	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117	
	1	Prelube	74-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	74-70	KC-380	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B	
V A L V E T R A I N	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Push Rod	74-70	RP-3036	9.9540" O.A.L.	
	12	Push Rod, Bulk	74-70	BRP-3036	Carton of 100; 9.9540" O.A.L.	
V A L V E T R A I N	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Rocker Shaft	74-70	RS-620		
	12	Adj. Screw	74-70	MR-1933		
V A L V E T R A I N	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	6	Exhaust	74-70	V-4093 Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.	
	6	Exhaust, Bulk	74-70	V-4093B15 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.	
	6	Intake	74-70	V-1434 Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.	
V A L V E T R A I N	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Guide	74-70	VG-5087	Exh. & Int.; Bronze; .3740" ID, 2.5000" O.A.L.	
	6	Guide	74-70	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.	
V A L V E T R A I N	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Spring	74-70	VS-510	2.0000" Free Height	
	12	Spring, Bulk	74-70	VS-510B	Carton of 250; 2.0000" Free Height	
V A L V E T R A I N	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	6	Valve Stem Seal	74-70	ST-2004	Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE	
	6	Valve Stem Seal	74-70	MV-1918	Exh.; Umbrella type; Viton®	
	6	Valve Stem Seal	74-70	MV-1771C	Int.; Umbrella type; Polyacrylate	
	6	Valve Stem Seal Bulk	74-70	ST-2004BC	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	6	Valve Stem Seal Bulk	74-70	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate	
V A L V E T R A I N	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	6	Exh.	74-70	245-1437-1 Std Only	1.4420" OD, 1.2500" ID, .2160" Depth	
	6	Int.	74-70	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	
	6	Int.	74-70	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
V A L V E T R A I N	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Keeper	74-70	VK-174	Exh.; 4 groove	
	12	Keeper	74-70	VK-174R	Exh.; 4 groove; Hardened	
	12	Keeper	74-70	VK-66	Int.; 2 groove	
	12	Keeper	74-70	VK-66R	Int.; 2 groove; Hardened	
	12	Spring Insert	74-70	259-103C	.015"; ID 1.030"; Carton of 100	
	12	Spring Insert	74-70	259-103B	.030"; ID 1.030"; Carton of 100	
	12	Spring Insert	74-70	259-103BRS	.030"; ID 1.030"; Carton of 500	

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## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**3.2L 198 OHV L6, 3.4063" Bore 1974-70 24**

VIN Code "B" 1970-74 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
12	Spring Insert	74-70	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
12	Spring Insert	74-70	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	74-70	<b>244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Cast Piston - Individual	74-70	<b>W244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	74-70	<b>E-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	74-70	<b>E-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	74-70	<b>WE-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	74-70	<b>WE-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74-70	<b>4092M</b> Std-10-20-30	
1	Rod Set	74-70	<b>6-2375CP</b> Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable
6	Rod Pair	74-70	<b>2375CP</b> Std-10-20-30-40	
1	Cam Set	74-70	<b>1454M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	74-70	<b>224-4165C</b>	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump
1	Oil Pump	74-70	<b>224-4165V</b>	High Volume; Will replace 5 bolt pump
1	Screen Assy.	74-72	<b>224-14157</b>	Dart, Duster, Valiant
1	Screen Assy.	71	<b>224-14157</b>	Barracuda, Dart, Duster, Valiant
1	Screen Assy.	70	<b>224-14157</b>	Dart, Duster, Valiant
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	74-70	<b>260-1004</b>	Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	74-70	<b>381-8012</b>	

	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
<b>YEARS</b>	<b>DESCRIPTION</b>			
74-70	Premium valve stem seals incl.	Re-ring	<b>205-602</b>	<b>205-102</b>
		Re-ring w/Mains	<b>205-602M</b>	<b>205-102M</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
74-70	Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master	<b>MKP-602A</b>	<b>MKP-102A</b>
		Master w/o Pistons	<b>MK-602A</b>	<b>MK-102A</b>
74-70	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	<b>505-602A</b>	<b>505-102A</b>

**3.3L 201 (3302cc) OHV V6 (12 Valve), 93mm Bore 1990 25**

VIN Codes "R" 1990-93, "T" 1993-97, "U" 1994-96 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	<b>KT3-388S</b>	Incl. (1) 222-388, (1) 223-715, (1) 223-788
1	Timing Chain	90	<b>222-388</b>	VIN Codes "R" & "T"; 64 Links
1	Crank Sprocket	90	<b>223-715</b>	20 Teeth
1	Cam Sprocket	90	<b>223-788</b>	VIN Codes "R" & "T"; 40 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	90	<b>CS-1503</b>	VIN Code "R"
12	Lifter	90	<b>HT-2269</b> Std Only	Hyd. rlr.
12	Lifter, Bulk	90	<b>HT-2269B</b> Std Only	Hyd. rlr.; Carton of 117
1	Prelube	90	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90	<b>KC-1503</b>	VIN Code "R"; Hyd. rlr.; Incl. (1) CS-1503, (12) HT-2269, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90	<b>RP-3279</b>	5.1160" O.A.L.
12	Push Rod, Bulk	90	<b>BRP-3279</b>	Carton of 100; 5.1160" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm	90	<b>R-1094</b>	
2	Rocker Shaft	90	<b>RS-725</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90	<b>V-2558</b> Std Only	Chrome plated stem; 1.4760" Head Dia., .3116" Stem Dia., 4.9740" O.A.L.
6	Intake	90	<b>V-2557</b> Std Only	Chrome plated stem; 1.7913" Head Dia., .3127" Stem Dia., 4.9490" O.A.L.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**25 3.3L 201 (3302cc) OHV V6 (12 Valve), 93mm Bore 1990**  
 (cont.) VIN Codes "R" 1990-93, "T" 1993-97, "U" 1994-96 (Flex Fuel)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90	VG-910	.3155" ID, 2.2750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90	VS-1458	Exh. & Int.; 1.9000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90	MV-1919	Umbrella type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90	245-1562-74 Std Only	1.5695" OD, 1.2900" ID, .3240" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	90	VK-225	Exh.; 4 groove
12	Spring Insert	90	259-820B	.030"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	574CP Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .9011" Pin Dia., Recessed Head .094" deep - 8.9:1 C.R.; DurOshield® skirt coated piston
6	Cast Piston - Individual	90	W574CP Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .9011" Pin Dia., Recessed Head .094" deep - 8.9:1 C.R.; DurOshield® skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-529K Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
6	Premium Single Cylinder Set	90	WE-529K Std-.50-.75MM	2-1.50MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7278MA Std-.25-.50-.75MM	A-Series aluminum bearings
1	Rod Set	90	6-1920RA Std-.25-.50-.75MM	A-Series aluminum bearings
6	Rod Pair	90	1920RA Std-.25-.50MM	A-Series aluminum bearings
1	Cam Set	90	1809M Std Only	
1	Cam Set	90	1894M Std Only	Spec. oil control set
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	90	224-51384	
1	Screen Assy.	90	224-15051	VIN Code "R"
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1646	Int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	90	260-4030	Upper set incl.
1	Head Bolt Set	90	260-2520	Replacement recommended
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90	381-8060	
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90	Head bolts not incl.; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6206A 205-6206AM	----- -----
<b>OVERHAUL KIT</b>				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90	VIN Code "R"; Head bolts not incl.; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings	Master Master w/o Pistons	MKP-6206A MK-6206A	----- -----
90	VIN Code "R"; Head bolts not incl.; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6206A	-----
90	Int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block	BK-6228	-----

**26 3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.25" Bore 1953-46**

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	53-46	37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Cast Piston - Individual	53-46	W37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Pin Bushing	53-46	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	53-46	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	53-46	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	53-46	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.25" Bore 1953-46** **26**  
(cont.)

BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	53-46	<b>E-108KC</b> Std-30-60	2-3/32, 2-5/32	
	1	Standard Set	53-46	<b>E-108X</b> Std-30-40-60	2-3/32, 2-5/32	
	6	Standard Single Cylinder Set	53-46	<b>WE-108X</b> Std-30	2-3/32, 2-5/32	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Main Set	53-46	<b>415M</b> Std-10-20-30-40	w/M/T	
	1	Rod Set	53-46	<b>6-9185CP</b> Std-10-20-30-40		
	6	Rod Pair	53-46	<b>9185CP</b> Std-10-20-30-40		
	1	Cam Set	53-46	<b>1010M</b> Std Only		

**3.7L 225 OHV L6, 3.4063" Bore 1983-60** **27**  
VIN Codes "B" 1966-69, "C" 1966-80, "D" 1977-80, "E" 1972 & 1981-82, "F" 1981-82, "G" 1981-82, "H" 1981-83, "J" 1983, "K" 1983, "L" 1983

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	83-60	<b>KT3-495SA</b>	Incl. (1) KT3-495SA	
	1	Timing Chain	83-60	<b>222-495</b>	Silent type; 50 Links	
	1	Crank Sprocket	83-60	<b>223-291</b>	Use w/silent type chain; 19 Teeth	
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Camshaft	83-81	<b>CS-709</b>		
	1	Camshaft	80-60	<b>CS-380</b>		
	12	Lifter	83-81	<b>HT-2089</b> Std Only	Hyd.	
	12	Lifter	80-60	<b>AT-2084</b> Std Only	Dumbbell shaped mech.	
	12	Lifter, Bulk	83-81	<b>HT-2089B</b> Std Only	Hyd.; Carton of 117	
	12	Lifter, Bulk	80-60	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117	
	1	Prelube	83-60	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Cam/Lifter Kit	83-81	<b>KC-709</b>	Hyd.; Incl. (1) CS-709, (12) HT-2089, (1) 55-403B	
	1	Cam/Lifter Kit	80-60	<b>KC-380</b>	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B	
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Push Rod	83-81	<b>RP-3208</b>	9.9850" O.A.L.	
	12	Push Rod	80-60	<b>RP-3036</b>	w/Mech. lifters; 9.9540" O.A.L.	
	12	Push Rod, Bulk	83-81	<b>BRP-3208</b>	Carton of 100; 9.9850" O.A.L.	
	12	Push Rod, Bulk	80-60	<b>BRP-3036</b>	w/Mech. lifters; Carton of 100; 9.9540" O.A.L.	
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Arm	83-81	<b>R-893</b>		
	12	Arm, Bulk	83-81	<b>R-893B</b>	Carton of 64	
	1	Rocker Shaft	80-60	<b>RS-620</b>		
	12	Adj. Screw	80-60	<b>MR-1933</b>		
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Exhaust	83-60	<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.	
	6	Exhaust, Bulk	83-60	<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.	
	6	Intake	83-60	<b>V-1434</b> Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.	
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Guide	83-60	<b>VG-5087</b>	Exh. & Int.; Bronze; .3740" ID, 2.5000" O.A.L.	
	6	Guide	83-60	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.	
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Spring	83-60	<b>VS-510</b>	2.0000" Free Height	
	12	Spring, Bulk	83-60	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height	
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Valve Stem Seal	83-82	<b>ST-2004</b>	Exh.; Positive type; Installation requires valve guide machining; Rubber/PTFE	
	6	Valve Stem Seal	83-82	<b>ST-2048</b>	Int.; Positive type; Viton®	
	12	Valve Stem Seal	81-60	<b>ST-2004</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE	
	6	Valve Stem Seal	81-65	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate	
	6	Valve Stem Seal	80-78	<b>MV-1918</b>	Exh.; Umbrella type; Viton®	
	6	Valve Stem Seal	77-65	<b>MV-1918</b>	Exh.; Umbrella type; Viton®	
	6	Valve Stem Seal Bulk	83-82	<b>ST-2004BC</b>	Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	6	Valve Stem Seal Bulk	81-65	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate	
	12	Valve Stem Seal Bulk	81-60	<b>ST-2004BC</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Exh.	83-60	<b>245-1437-1</b> Std Only	1.4420" OD, 1.2500" ID, .2160" Depth	
	6	Int.	83-60	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**27** 3.7L 225 OHV L6, 3.4063" Bore 1983-60  
 (cont.) VIN Codes "B" 1966-69, "C" 1966-80, "D" 1977-80, "E" 1972 & 1981-82, "F" 1981-82, "G" 1981-82, "H" 1981-83, "J" 1983, "K" 1983, "L" 1983

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION	
6	Int.	83-60	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
12	Keeper	83-60	<b>VK-174</b>	Exh.; 4 groove	
12	Keeper	83-60	<b>VK-174R</b>	Exh.; 4 groove; Hardened	
12	Keeper	83-60	<b>VK-66</b>	Int.; 2 groove	
12	Keeper	83-60	<b>VK-66R</b>	Int.; 2 groove; Hardened	
12	Spring Insert	83-60	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100	
12	Spring Insert	83-60	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100	
12	Spring Insert	83-60	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500	
12	Spring Insert	83-60	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100	
12	Spring Insert	83-60	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	83-60	<b>244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
6	Cast Piston - Individual	83-60	<b>W244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
6	Pin Bushing	83-60	<b>2134Y</b>		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	83-60	<b>E-196K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	83-60	<b>E-196X</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	83-60	<b>WE-196K</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	83-60	<b>WE-196X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	83-76	<b>5070M</b> Std-10-20-30-40		
1	Main Set	76-60	<b>4092M</b> Std-10-20-30	w/Forged crankshaft	
1	Rod Set	83-77	<b>6-3695RA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Rod Set	76	<b>6-3695RA</b> Std-10-20-30-40	w/Cast crankshaft; <b>A-Series aluminum bearings</b>	
1	Rod Set	76	<b>6-2375CP</b> Std-10-20-30-40	w/Forged crankshaft; 6-2375CA 60 avail. as unplated & resizeable	
1	Rod Set	75-60	<b>6-2375CP</b> Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable	
6	Rod Pair	83-77	<b>3695RA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
6	Rod Pair	76	<b>3695RA</b> Std-1-10-20-30-40	w/Cast crankshaft; <b>A-Series aluminum bearings</b>	
6	Rod Pair	76	<b>2375CP</b> Std-10-20-30-40	w/Forged crankshaft	
6	Rod Pair	75-60	<b>2375CP</b> Std-10-20-30-40		
1	Cam Set	83-79	<b>1473M</b> Std Only		
1	Cam Set	78-60	<b>1454M</b> Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	83-60	<b>224-4165C</b>	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump	
1	Oil Pump	83-60	<b>224-4165V</b>	High Volume; Will replace 5 bolt pump	
1	Screen Assy.	83-60	<b>224-14157</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	83-81	<b>260-1038</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	80-63	<b>260-1004</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	62-61	<b>260-1004</b>	w/1 Bbl. Carb.; Premium valve stem seals incl.	
1	Kit Gasket Set	60	<b>260-1004</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	83-60	<b>381-8012</b>		
RE-RING KIT				<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>
83-81	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-604</b>	<b>205-104</b>
		Re-ring w/Mains		<b>205-604M</b>	<b>205-104M</b>
80-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-603</b>	<b>205-103</b>
		Re-ring w/Mains		<b>205-603M</b>	<b>205-103M</b>
76	w/Forged crankshaft; Premium valve stem seals incl.	Re-ring		<b>205-602</b>	<b>205-102</b>
		Re-ring w/Mains		<b>205-602M</b>	<b>205-102M</b>
76	w/Cast crankshaft; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-603</b>	<b>205-103</b>
		Re-ring w/Mains		<b>205-603M</b>	<b>205-103M</b>
75-63	w/Forged crankshaft; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-602M</b>	<b>205-102M</b>
75-63	Premium valve stem seals incl.	Re-ring		<b>205-602</b>	<b>205-102</b>
62-61	w/1 Bbl. Carb.; w/Forged crankshaft; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-602M</b>	<b>205-102M</b>
62-61	w/1 Bbl. Carb.; Premium valve stem seals incl.	Re-ring		<b>205-602</b>	<b>205-102</b>
60	w/Forged crankshaft; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-602M</b>	<b>205-102M</b>

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**3.7L 225 OHV L6, 3.4063" Bore 1983-60 27**

VIN Codes "B" 1966-69, "C" 1966-80, "D" 1977-80, "E" 1972 & 1981-82, "F" 1981-82, "G" 1981-82, "H" 1981-82, "J" 1983, "K" 1983, "L" 1983 (cont.)

	<b>RE-RING KIT (cont.)</b>					
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>RE-RING</b>	<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	60	Premium valve stem seals incl.	Re-ring	205-602	205-102	
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>RE-RING</b>	<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	83-81	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-604A MK-604A	MKP-104A MK-104A	
	83-81	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-604A	505-104A	
	80-79	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-603C MK-603C	MKP-103C MK-103C	
	80-79	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-603C	505-103C	
	78-77	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-602A	505-102A	
	78-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-603A MK-603A	MKP-103A MK-103A	
	76	w/Forged crankshaft; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-602A MK-602A	MKP-102A MK-102A	
	76	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-602A	505-102A	
	76	w/Cast crankshaft; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-603A MK-603A	MKP-103A MK-103A	
	75-63	w/Forged crankshaft; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-602A MK-602A	MKP-102A MK-102A	
	75-63	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-602A	505-102A	
	62-61	w/1 Bbl. Carb.; w/Forged crankshaft; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-602A MK-602A	MKP-102A MK-102A	
	62-61	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-602A	505-102A	
	60	w/Forged crankshaft; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons	MKP-602A MK-602A	MKP-102A MK-102A	
	60	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains	505-602A	505-102A	

**3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore 1959-46 28**

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
	6	Exhaust	59-46	<b>V-1351</b> Std Only	1.4070" Head Dia., .3405" Stem Dia., 4.8410" O.A.L.	
	6	Intake	59-46	<b>V-1086</b> Std Only	1.5310" Head Dia., .3405" Stem Dia., 4.8450" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Guide	59-46	<b>VG-419</b>	Exh.; .3445" ID, 2.8130" O.A.L.	
	6	Guide	59-46	<b>VG-420</b>	Int.; .3425" ID, 2.8130" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Spring	59-46	<b>VS-304</b>	w/o Rotocaps; 2.0000" Free Height	
	12	Spring	59-46	<b>VS-506</b>	Use w/Rotocaps; 1.8570" Free Height	
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Valve Stem Seal	59-58	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
	12	Valve Stem Seal Bulk	59-58	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Int.	59-46	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth	
	6	Int.	59-46	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	

(continued on next page)

## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**28** 3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore 1959-46  
(cont.)

	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	24	Keeper	59-46	VK-63	2 groove; Round key groove
<b>BLOCK</b>	QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Cast Piston	59-46	37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
	6	Cast Piston - Individual	59-46	W37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
	6	Pin Bushing	59-56	1904V	Split type bushing
	6	Pin Bushing	59-46	8649XAS	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing	59-46	8649XA	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing	59-46	8649V	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing	59-46	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	6	Pin Bushing	55	1904V	From Ser. No. 17001; Split type bushing
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	59-46	E-108KC Std-30-60	2-3/32, 2-5/32	
1	Standard Set	59-46	E-108X Std-30-40-60	2-3/32, 2-5/32	
6	Standard Single Cylinder Set	59-46	WE-108X Std-30	2-3/32, 2-5/32	
QTY	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Repair Sleeve	59-46	SL-123M Std Only	3/32" wall, cut to length; Press fit sleeve	
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	59-46	415M Std-10-20-30-40	w/M/T	
1	Rod Set	59-46	6-9185CP Std-10-20-30-40		
6	Rod Pair	59-46	9185CP Std-10-20-30-40		
1	Cam Set	59-46	1010M Std Only		
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	59-46	224-4160	w/rotor pump; w/Ext. drive gear; Rotor type	

**29** 3.9L 236.6 L-HEAD L6 (DeSoto), 3.4375" Bore 1950-46

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	50-46	222-401	48 Links
<b>VALVE TRAIN</b>	QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	50-49	V-1004 Std Only	1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Exhaust	48	V-1004 Std Only	Chrysler; From Ser. No. 175886; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Exhaust	48	V-1004 Std Only	Dodge; From Ser. No. 18448; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Intake	50-46	V-1005 Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.
	QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	50-46	VG-419	Exh.; .3445" ID, 2.8130" O.A.L.
	6	Guide	50-46	VG-420	Int.; .3425" ID, 2.8130" O.A.L.
	QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Spring	50-46	VS-304	w/o Rotocaps; 2.0000" Free Height
6	Spring	50-46	VS-506	Use w/Rotocaps; 1.8570" Free Height	
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	50-46	VK-63	2 groove; Round key groove	
<b>BLOCK</b>	QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Cast Piston	50-46	32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Cast Piston - Individual	50-46	W32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Pin Bushing	50-46	8649XAS	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing	50-46	8649XA	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing	50-46	8649V	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing	50-46	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Standard Set	50-46	E-107X Std-30-40-60	2-3/32, 2-5/32
	QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	50-46	485M Std-10-20-30-40		
6	Rod Pair	50-46	9560CPA Std-10-20-30-40-50		
1	Cam Set	50-46	1011M Std Only		
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	50-46	224-4160	Rotor type	

## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

4.0L 241.4 OHV V8 (Dodge), 3.4375" Bore 1955-53 <b>30</b>					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Lifter	55-53	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	55-53	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Spring	55	<b>VS-510</b>	2.0000" Free Height
	16	Spring, Bulk	55	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Valve Stem Seal	55	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate
	16	Valve Stem Seal Bulk	55	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	55	<b>VK-174</b>	Exh. & Int.; 4 groove	
16	Keeper	55	<b>VK-174R</b>	Exh. & Int.; 4 groove; Hardened	
16	Keeper	54-53	<b>VK-174</b>	Exh.; 4 groove	
16	Keeper	54-53	<b>VK-174R</b>	Exh.; 4 groove; Hardened	
16	Keeper	54-53	<b>VK-66</b>	Int.; 2 groove	
16	Keeper	54-53	<b>VK-66R</b>	Int.; 2 groove; Hardened	
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Repair Sleeve	55-53	<b>SL-14M</b> Std Only	3/32" wall, must be cut to correct length	
4.1L 251 L-HEAD L6 (Chrysler), 3.4375" Bore 1954-46 <b>31</b>					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain	54-46	<b>222-401</b>	48 Links
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	54-49	<b>V-1004</b> Std Only	1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Exhaust	48	<b>V-1004</b> Std Only	Chrysler; From Ser. No. 175886; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Exhaust	48	<b>V-1004</b> Std Only	Dodge; From Ser. No. 18448; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Intake	54-46	<b>V-1005</b> Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	54-46	<b>VG-419</b>	Exh.; .3445" ID, 2.8130" O.A.L.
	6	Guide	54-46	<b>VG-420</b>	Int.; .3425" ID, 2.8130" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Spring	54-46	<b>VS-304</b>	w/o Rotocaps; 2.0000" Free Height	
6	Spring	54-46	<b>VS-506</b>	Use w/Rotocaps; 1.8570" Free Height	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	54-46	<b>VK-63</b>	2 groove; Round key groove	
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Cast Piston	54-46	<b>32NP</b> Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Cast Piston - Individual	54-46	<b>W32NP</b> Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Pin Bushing	54-46	<b>8649XAS</b>	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing	54-46	<b>8649XA</b>	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing	54-46	<b>8649V</b>	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing	54-46	<b>8649V20</b>	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Standard Set	54-46	<b>E-107X</b> Std-30-40-60	2-3/32, 2-5/32
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	54-46	<b>485M</b> Std-10-20-30-40		
6	Rod Pair	54-46	<b>9560CPA</b> Std-10-20-30-40-50		
1	Cam Set	54-46	<b>1011M</b> Std Only		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	54-46	<b>224-4160</b>	Rotor type	
4.3L 260 OHV V8 (Plymouth), 3.5625" Bore 1955 <b>32</b>					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Lifter	55	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	55	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Spring	55	<b>VS-510</b>	2.0000" Free Height	
16	Spring, Bulk	55	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Valve Stem Seal	55	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate	

(continued on next page)

## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

<b>32 4.3L 260 OHV V8 (Plymouth), 3.5625" Bore 1955</b> (cont.)				
QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal Bulk	55	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
32	VALVE, MISC	55	VK-174	4 groove
32	Keeper	55	VK-174R	4 groove; Hardened
<b>33 4.3L 265 L-HEAD L6 (Chrysler), 3.4375" Bore 1954-52</b>				
6	VALVE	54-52	V-1004 Std Only	1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
6	Exhaust	54-52	V-1005 Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.
6	Intake			
6	VALVE GUIDE	54-52	VG-419	Exh.; .3445" ID, 2.8130" O.A.L.
6	Guide	54-52	VG-420	Int.; .3425" ID, 2.8130" O.A.L.
12	VALVE SPRING	54-52	VS-304	w/o Rotocaps; 2.0000" Free Height
12	Spring	54-52	VS-506	Use w/Rotocaps; 1.8570" Free Height
24	VALVE, MISC	54-52	VK-63	2 groove; Round key groove
6	PISTON	54-52	32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
6	Cast Piston - Individual	54-52	W32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
6	Pin Bushing	54-52	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	54-52	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	54-52	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	54-52	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
1	RINGS	54-52	E-107X Std-30-40-60	2-3/32, 2-5/32
1	Standard Set			
1	ENGINE BEARINGS	54-52	485M Std-10-20-30-40	
6	Main Set	54-52	9560CPA Std-10-20-30-40-50	
6	Rod Pair	54-52	1011M Std Only	
1	Cam Set	54-52		
<b>34 4.4L 270 OHV V8 (Dodge/Plymouth), 3.625" Bore 1956-55</b>				
1	TIMING	56-55	222-348	Silent type; 68 Links
1	Timing Chain	56-55	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Crank Sprocket	56	223-273	46 Teeth
1	Cam Sprocket	55	223-273	Exc. Custom & Coronet; 46 Teeth
16	CAMSHAFT/LIFTER	56-55	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter	56-55	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
16	VALVE SEAL	56-55	ST-2002	Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	56	MV-1771C	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal	56	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	56-55	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	VALVE, MISC	56-55	VK-66	2 groove
16	Keeper	56-55	VK-66R	2 groove; Hardened
16	Keeper	56-55	VK-174	4 groove
16	Keeper	56-55	VK-174R	4 groove; Hardened
8	PISTON	56-55	1904V	Split type bushing
8	Pin Bushing			
1	RINGS	56-55	E-239K Std-30-60	2-5/64, 1-3/16
1	Premium Set	56-55	E-239X Std-30-40	2-5/64, 1-3/16
8	Standard Set	56-55	WE-239X Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set			
8	SLEEVE	56-55	SL-17M Std Only	3/32" wall, must be cut to correct length & notched
8	Repair Sleeve			



# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**4.5L 273 OHV V8, 3.625" Bore 1969-64 35**  
VIN Code "D" 1966-69

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-65	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
1	Timing Set w/Gaskets	69-65	<b>CTS-3000</b>	Incl. silent type chain
1	Timing Chain	69-65	<b>222-361</b>	Silent type; 68 Links
1	Crank Sprocket	69-65	<b>223-359</b>	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Cam Sprocket	69-65	<b>223-358</b>	Use w/silent type chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-68	<b>CS-645</b>	Hyd.
16	Lifter	69-68	<b>HT-2011</b> Std Only	Barrel shaped mech.
16	Lifter	67-64	<b>AT-937</b> Std Only	Dumbbell shaped mech.
16	Lifter	67-64	<b>AT-2084</b> Std Only	Dumbbell shaped mech.
16	Lifter, Bulk	69-68	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	67-64	<b>AT-937B</b> Std Only	Barrel shaped mech.; Carton of 117
16	Lifter, Bulk	67-64	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117
1	Prelube	69-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-68	<b>KC-645</b>	Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	<b>KCT-645</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	69-68	<b>RP-3194</b>	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod	67-65	<b>RP-3219R100</b>	Ball & socket type ends; Chrome-Moly; 7.3900" O.A.L.
16	Push Rod	67-65	<b>RP-3107</b>	7.6580" O.A.L.
16	Push Rod, Bulk	69-68	<b>BRP-3194</b>	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	69-68	<b>R-861</b>	L.H.
8	Arm	69-68	<b>R-862</b>	R.H.
8	Arm, Bulk	69-68	<b>R-861B</b>	L.H.; Carton of 64
8	Arm, Bulk	69-68	<b>R-862B</b>	R.H.; Carton of 64
2	Rocker Shaft	69-68	<b>RS-626</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-65	<b>V-2029</b> Std-5-15	4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	69-65	<b>V-2029B15</b> 15	4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Intake	69-65	<b>V-1722</b> Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	69-65	<b>V-1722B15</b> 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	69-64	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-65	<b>VS-510</b>	2.0000" Free Height
16	Spring, Bulk	69-65	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-65	<b>ST-2002</b>	Exc. Engs. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	69-65	<b>ST-2014</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	69-65	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	69-65	<b>ST-2002BC</b>	Exc. Engs. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	69-65	<b>ST-2014BC</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
8	Valve Stem Seal Bulk	69-65	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-65	<b>245-1625-2N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Exh.	69-65	<b>245-1625-2</b> Std Only	1.6300" OD, 1.3750" ID, .2480" Depth
8	Int.	69-65	<b>245-1812-1N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Int.	69-65	<b>245-1812-1</b> Std Only	1.8175" OD, 1.5625" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	69-65	<b>VK-174</b>	Exh.; 4 groove
16	Keeper	69-65	<b>VK-174R</b>	Exh.; 4 groove; Hardened
16	Keeper	69-65	<b>VK-66</b>	Int.; 2 groove
16	Keeper	69-65	<b>VK-66R</b>	Int.; 2 groove; Hardened
16	Spring Insert	69-65	<b>259-102C</b>	.015"; Carton of 100
16	Spring Insert	69-65	<b>259-102B</b>	.030"; Carton of 100

**VALVE TRAIN**

**VALVE TRAIN**

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 35 4.5L 273 OHV V8, 3.625" Bore 1969-64

(cont.) VIN Code "D" 1966-69

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring Insert	69-65	259-102A	.060"; Carton of 100
16	Spring Insert	69-65	259-102ARS	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	69-64	322NP30 30-40-60	w/2 Bbl. Carb.; w/Mech. lifters; Cast; 2-5/64", 1-3/16" Ring Groove, 1.768" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 8.8:1 C.R.
8	Cast Piston - Individual	69-64	W322NP30 30-40-60	w/2 Bbl. Carb.; w/Mech. lifters; Cast; 2-5/64", 1-3/16" Ring Groove, 1.768" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 8.8:1 C.R.
8	Pin Bushing	69-64	2134Y	
8	Pin Bushing	69-64	2134Y20	w/.020" extra bore stock
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	69-64	E-239K Std-30-60	2-5/64, 1-3/16
1	Standard Set	69-64	E-239X Std-30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-64	WE-239X Std-30	2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Repair Sleeve	69-65	SL-17M Std Only	3/32" wall, must be cut to correct length & notched
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	69-64	4923MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	69-64	8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set	69-64	8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	69-64	8-2130CA60 60	Unplated & resizeable
8	Rod Pair	69-64	2130CP Std-1-2-10-20-30-40-50	
1	Cam Set	69-64	1484M Std Only	
1	Cam Set	69-64	1451M Std Only	.760" length ctr. brg.
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	69-65	224-4166	
1	Oil Pump	69-65	224-4166V	High Volume, check pan for clearance
1	Inter. Shaft	69-65	224-6166	
1	Screen Assy.	69-65	224-1166	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	69-66	260-1153	Premium valve stem seals incl.
1	Kit Gasket Set	65-64	260-1153	Int. manifold gskt. not incl.; Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	69-65	381-8010	
1	Steel Block Plug Kit	69-65	381-4014	

## 36 4.5L 276 OHV V8 (DeSoto), 3.625" Bore 1954-52

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	54-52	E-239K Std-30-60	2-5/64, 1-3/16
1	Standard Set	54-52	E-239X Std-30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	54-52	WE-239X Std-30	2-5/64, 1-3/16

## 37 4.5L 277 OHV V8 (Plymouth), 3.75" Bore 1957-52

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	57-52	222-348	Silent type; 68 Links
1	Crank Sprocket	57-52	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	57-56	CS-198	
16	Lifter	57-56	AT-2084 Std Only	Dumbbell shaped mech.
16	Lifter	54-53	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	57-56	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117
16	Lifter, Bulk	54-53	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	57-56	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	57-56	RP-3030	Ball & cup type ends; .360" dia. ball at one end; 8.7350" O.A.L.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	57-56	V-1343 Std Only	4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Intake	57-56	V-1344 Std Only	2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	57-56	VG-5062	Exh.; .3735" ID, 2.3800" O.A.L.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

4.5L 277 OHV V8 (Plymouth), 3.75" Bore 1957-52 **37**

(cont.)

	QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	8	Guide	57-56	VG-5033	Int.; .3735" ID, 2.6200" O.A.L.
	16	Spring	57-56	VS-510	2.0000" Free Height
	16	Spring, Bulk	57-56	VS-510B	Carton of 250; 2.0000" Free Height
	16	Valve Stem Seal	57-56	ST-2002	Installation requires valve guide machining; Polyacrylate
	8	Valve Stem Seal	57	MV-1771C	Int.; Umbrella type; Polyacrylate
	8	Valve Stem Seal Bulk	57	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
	16	Valve Stem Seal Bulk	57-56	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	16	Keeper	57-56	VK-174	Exh.; 4 groove
	16	Keeper	57-56	VK-174R	Exh.; 4 groove; Hardened
	16	Keeper	57-56	VK-66	Int.; 2 groove
16	Keeper	57-56	VK-66R	Int.; 2 groove; Hardened	
16	Keeper	54-52	VK-174	Exh.; 4 groove	
16	Keeper	54-52	VK-174R	Exh.; 4 groove; Hardened	
16	Keeper	54-52	VK-66	Int.; 2 groove	
16	Keeper	54-52	VK-66R	Int.; 2 groove; Hardened	
BLOCK	8	Pin Bushing	57-56	2134Y	
	8	Pin Bushing	57-56	2134Y20	w/.020" extra bore stock
	1	Premium Set	57-56	E-240K	Std-20-30-40-60 2-5/64, 1-3/16
	1	Standard Set	57-56	E-240X	Std-30-40-60 2-5/64, 1-3/16
	8	Premium Single Cylinder Set	57-56	WE-240K	Std-20-30-40-60 2-5/64, 1-3/16
	8	Standard Single Cylinder Set	57-56	WE-240X	Std-30-40-60 2-5/64, 1-3/16
	8	Repair Sleeve	57-56	SL-19M	Std Only 3/32" wall, must be cut to correct length
	1	Main Set	57-56	4923MA	Std-1-10-20-30-40-50-60 <b>A-Series aluminum bearings</b>
	1	Rod Set	57-56	8-2130CP10X2	10X2-20X2 Use in .002" O/S Rod Bore
	1	Rod Set	57-56	8-2130CP	Std-1-10-20-30-40-50 8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	57-56	8-2130CA60	60 Unplated & resizeable	
8	Rod Pair	57-56	2130CP	Std-1-2-10-20-30-40-50	
1	Cam Set	57-56	1484M	Std Only	
1	Cam Set	57-56	1451M	Std Only .760" length ctr. brg.	
<b>4.9L 301 OHV V8 (Chrysler), 3.625" Bore 1955</b>					<b>38</b>
VALVE TRAIN	16	Lifter	55	HT-812	Std Only Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	55	HT-812B	Std Only Hyd.; Carton of 117; 1.830" - 1.860" Length
	8	Guide	55	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
	16	Spring	55	VS-510	2.0000" Free Height
	16	Spring, Bulk	55	VS-510B	Carton of 250; 2.0000" Free Height
	16	Valve Stem Seal	55	ST-2002	Installation requires valve guide machining; Polyacrylate
	16	Valve Stem Seal Bulk	55	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	32	Keeper	55	VK-174	4 groove
	32	Keeper	55	VK-174R	4 groove; Hardened
	1	Premium Set	55	E-239K	Std-30-60 2-5/64, 1-3/16
1	Standard Set	55	E-239X	Std-30-40 2-5/64, 1-3/16	
8	Standard Single Cylinder Set	55	WE-239X	Std-30 2-5/64, 1-3/16	
8	Repair Sleeve	55	SL-17M	Std Only 3/32" wall, must be cut to correct length & notched	

# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

<b>39 4.9L 301 OHV V8 (Chrysler), 3.625" Bore 1955</b>					
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	1	Camshaft	55	<b>CS-198</b>	Exc. Eng. w/Power Pkg.
	16	Lifter	55	<b>AT-937</b> Std Only	Barrel shaped mech.
	16	Lifter	55	<b>AT-2084</b> Std Only	Dumbbell shaped mech.
	16	Lifter, Bulk	55	<b>AT-937B</b> Std Only	Barrel shaped mech.; Carton of 117
	16	Lifter, Bulk	55	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117
	1	Prelube	55	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	16	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Push Rod	55	<b>RP-3030</b>	Ball & cup type ends; .360" dia. ball at one end; 8.7350" O.A.L.
	8	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Exhaust	55	<b>V-1343</b> Std Only	4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
	8	Intake	55	<b>V-1344</b> Std Only	2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
	8	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Guide	55	<b>VG-5033</b>	Int.; .3735" ID, 2.6200" O.A.L.
	16	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Spring	55	<b>VS-510</b>	2.0000" Free Height
	16	Spring, Bulk	55	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
16	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	Valve Stem Seal	55	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate	
8	Valve Stem Seal	55	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate	
16	Valve Stem Seal Bulk	55	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
8	Valve Stem Seal Bulk	55	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate	
16	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	Keeper	55	<b>VK-174</b>	Exh.; 4 groove	
16	Keeper	55	<b>VK-174R</b>	Exh.; 4 groove; Hardened	
16	Keeper	55	<b>VK-66</b>	Int.; 2 groove	
16	Keeper	55	<b>VK-66R</b>	Int.; 2 groove; Hardened	
BLOCK	8	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Pin Bushing	55	<b>2134Y</b>	
	8	Pin Bushing	55	<b>2134Y20</b>	w/.020" extra bore stock
	1	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Premium Set	55	<b>E-178K</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	Standard Set	55	<b>E-178X</b> Std-20-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	55	<b>WE-178K</b> Std-20-30-40-60	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	55	<b>WE-178X</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Main Set	55	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Rod Set	55	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
	1	Rod Set	55	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	55	<b>8-2130CA60</b> 60	Unplated & resizeable	
8	Rod Pair	55	<b>2130CP</b> Std-1-2-10-20-30-40-50		
1	Cam Set	55	<b>1484M</b> Std Only		
1	Cam Set	55	<b>1451M</b> Std Only	.760" length ctr. brg.	
<b>40 5.0L 303 OHV V8 (Plymouth), 3.8125" Bore 1958-56</b>					
BLOCK	16	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Lifter	56	<b>AT-937</b> Std Only	Barrel shaped mech.
	16	Lifter, Bulk	56	<b>AT-937B</b> Std Only	Barrel shaped mech.; Carton of 117
	8	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	Guide	58-56	<b>VG-5062</b>	Exh.; Plain; .3735" ID, 2.3800" O.A.L.	
8	Guide	58-56	<b>VG-5033</b>	Int.; Plain; .3735" ID, 2.6200" O.A.L.	
BLOCK	8	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Pin Bushing	58-56	<b>2134Y</b>	
	8	Pin Bushing	58-56	<b>2134Y20</b>	w/.020" extra bore stock
	1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		Main Set	58-56	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	58-56	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore	
1	Rod Set	58-56	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable	
1	Rod Set	58-56	<b>8-2130CA60</b> 60	Unplated & resizeable	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

5.0L 303 OHV V8 (Plymouth), 3.8125" Bore 1958-56 <b>40</b>					
(cont.)					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
8	Rod Pair	58-56	<b>2130CP</b> Std-1-2-10-20-30-40-50		
1	Cam Set	58-56	<b>1484M</b> Std Only		
1	Cam Set	58-56	<b>1451M</b> Std Only	.760" length ctr. brg.	
5.1L 313 OHV V8 (Plymouth), 3.875" Bore 1966-57 <b>41</b>					
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	8	Pin Bushing	66-57	<b>2134Y</b>	
	8	Pin Bushing	66-57	<b>2134Y20</b>	w/.020" extra bore stock
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	66-57	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Rod Set	66-57	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
	1	Rod Set	66-57	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
	1	Rod Set	66-57	<b>8-2130CA60</b> 60	Unplated & resizeable
	8	Rod Pair	66-57	<b>2130CP</b> Std-1-2-10-20-30-40-50	
	1	Cam Set	66-57	<b>1484M</b> Std Only	
1	Cam Set	66-57	<b>1451M</b> Std Only	.760" length ctr. brg.	
5.2L 315 OHV V8 (Dodge), 3.625" Bore 1956 <b>42</b>					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	56	<b>222-348</b>	Silent type; 68 Links
	1	Cam Sprocket	56	<b>223-273</b>	46 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter	56	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	56	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	16	Spring	56	<b>VS-510</b>	2.0000" Free Height
	16	Spring, Bulk	56	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	56	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate	
8	Valve Stem Seal	56	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate	
16	Valve Stem Seal Bulk	56	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
8	Valve Stem Seal Bulk	56	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	56	<b>VK-174</b>	4 groove	
32	Keeper	56	<b>VK-174R</b>	4 groove; Hardened	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	56	<b>E-239K</b> Std-30-60	2-5/64, 1-3/16	
1	Standard Set	56	<b>E-239X</b> Std-30-40	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	56	<b>WE-239X</b> Std-30	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
8	Repair Sleeve	56	<b>SL-17M</b> Std Only	3/32" wall, must be cut to correct length & notched	
5.2L 318 OHV V8, 3.9063" Bore 1989-57 <b>43</b>					
VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	3 Piece Set	89	<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402	
1	3 Piece Set	89	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359	
1	3 Piece Set	88-77	<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402	
1	3 Piece Set	88-77	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359	
1	3 Piece Set	76-65	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359	
1	Timing Set w/Gaskets	89-77	<b>CTS-3002</b>	VIN Codes "H", "N", "P", "R" & "S"; Incl. double rlr. type chain	
1	Timing Set w/Gaskets	88-65	<b>CTS-3000</b>	VIN Codes "4", "G", "K", "L" & "M"; Incl. silent type chain	
1	Timing Chain	89	<b>222-160</b>	Double rlr.; 68 Links	
1	Timing Chain	88-77	<b>222-160</b>	VIN Codes "H", "N", "P", "R" & "S"; Double rlr.; 68 Links	
1	Timing Chain	88-77	<b>222-361</b>	VIN Codes "4", "G", "K", "L" & "M"; Silent type; 68 Links	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**43** 5.2L 318 OHV V8, 3.9063" Bore 1989-57  
 (cont.) VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

**VALVE TRAIN**

**VALVE TRAIN**

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	76-65	222-361	Silent type; 68 Links
1	Timing Chain	64-57	222-348	Silent type; 68 Links
1	Crank Sprocket	89	223-297	Double row; 23 Teeth
1	Crank Sprocket	88-77	223-297	VIN Codes "H", "N", "P", "R" & "S"; Double row; 23 Teeth
1	Crank Sprocket	88-77	223-359	VIN Codes "4", "G", "K", "L" & "M"; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Crank Sprocket	76-65	223-359	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Crank Sprocket	64-57	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Cam Sprocket	89	223-402	Double row; 46 Teeth
1	Cam Sprocket	88-77	223-402	VIN Codes "H", "N", "P", "R" & "S"; Double row; 46 Teeth
1	Cam Sprocket	88-77	223-358	VIN Codes "4", "G", "K", "L" & "M"; Use w/silent type chain; 46 Teeth
1	Cam Sprocket	76-65	223-358	Use w/silent type chain; 46 Teeth
1	Cam Sprocket	64-57	223-273	46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89	CS-645	VIN Code "S"; w/flat lifters
1	Camshaft	89-85	CS-1556	VIN Codes "P" & "4"; Rlr. cam
1	Camshaft	88-86	CS-645	VIN Codes "S" & "Z"; w/flat lifters
1	Camshaft	85	CS-645	VIN Codes "R", "S" & "Z"; w/flat lifters
1	Camshaft	84-67	CS-645	
1	Camshaft	66-57	CS-198	Engs. w/Mech. lifters
16	Lifter	89	HT-2011 Std Only	VIN Code "S"; Hyd.
16	Lifter	89-85	HT-2269 Std Only	VIN Codes "4" & "P"; Hyd. rlr.
16	Lifter	88-86	HT-2011 Std Only	VIN Codes "S" & "Z"; Hyd.
16	Lifter	85	HT-2011 Std Only	VIN Codes "R", "S" & "Z"; Hyd.
16	Lifter	84-68	HT-2011 Std Only	Hyd.
16	Lifter	67	HT-879 Std Only	Hyd.
16	Lifter	66-57	AT-937 Std Only	Barrel shaped mech.
16	Lifter	66-57	AT-2084 Std Only	Dumbbell shaped mech.
16	Lifter, Bulk	89	HT-2011B Std Only	VIN Code "S"; Hyd.; Carton of 117
16	Lifter, Bulk	89-85	HT-2269B Std Only	VIN Codes "4" & "P"; Hyd. rlr.; Carton of 117
16	Lifter, Bulk	88-86	HT-2011B Std Only	VIN Codes "S" & "Z"; Hyd.; Carton of 117
16	Lifter, Bulk	85	HT-2011B Std Only	VIN Codes "R", "S" & "Z"; Hyd.; Carton of 117
16	Lifter, Bulk	84-68	HT-2011B Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	66-57	AT-937B Std Only	Barrel shaped mech.; Carton of 117
16	Lifter, Bulk	66-57	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117
1	Prelube	89-57	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	89	KC-645	VIN Code "S"; w/flat lifters; Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	89-85	KC-1556	VIN Codes "P" & "4"; Hyd. rlr.; Incl. (1) CS-1556, (16) HT-2269, (1) 55-403B
1	Cam/Lifter Kit	88-86	KC-645	VIN Codes "S" & "Z"; w/flat lifters; Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	85	KC-645	VIN Codes "R", "S" & "Z"; w/flat lifters; Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	84-68	KC-645	Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	89	KCT-645A	VIN Code "S"; w/flat lifters; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	89	KCT-645	VIN Code "S"; w/flat lifters; Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	88-86	KCT-645A	VIN Codes "S" & "Z"; w/flat lifters; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	88-86	KCT-645	VIN Codes "S" & "Z"; w/flat lifters; Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-645A	VIN Codes "R", "S" & "Z"; w/flat lifters; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-645	VIN Codes "R", "S" & "Z"; w/flat lifters; Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-77	KCT-645A	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-77	KCT-645	Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-68	KCT-645	Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.2L 318 OHV V8, 3.9063" Bore 1989-57 43**

VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, (cont.)  
"M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	89	<b>RP-3278</b>	w/o Hyd. rlr. lifters; Hole through rod; 7.5230" O.A.L.
16	Push Rod	89	<b>RP-3277</b>	w/Hyd. rlr. lifters; Hole through rod; 6.7400" O.A.L.
16	Push Rod	88-85	<b>RP-3194</b>	w/o Hyd. rlr. lifters; .312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod	88-85	<b>RP-3259</b>	w/Hyd. rlr. lifters; Solid ball; 6.7640" O.A.L.
16	Push Rod	88-67	<b>RP-3336</b>	w/Hyd. lifters; w/adj. rocker arms; 7.2700" O.A.L.
16	Push Rod	84-68	<b>RP-3194</b>	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod	67	<b>RP-3120</b>	.230" dia. ball tapered end; .312" dia. ball opposite end; 7.6040" O.A.L.
16	Push Rod	66-57	<b>RP-3030</b>	Ball & cup type ends; .360" dia. ball at one end; 8.7350" O.A.L.
16	Push Rod, Bulk	89	<b>BRP-3277</b>	w/Hyd. rlr. lifters; Hole through rod; Carton of 100; 6.7400" O.A.L.
16	Push Rod, Bulk	88-85	<b>BRP-3194</b>	w/o Hyd. rlr. lifters; .312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
16	Push Rod, Bulk	88-85	<b>BRP-3259</b>	w/Hyd. rlr. lifters; Solid ball; Carton of 100; 6.7640" O.A.L.
16	Push Rod, Bulk	84-68	<b>BRP-3194</b>	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	89	<b>R-1001</b>	L.H.
8	Arm	89	<b>R-1002</b>	R.H.
8	Arm	88-67	<b>R-861</b>	L.H.
8	Arm	88-67	<b>R-862</b>	R.H.
8	Arm, Bulk	88-67	<b>R-861B</b>	L.H.; Carton of 64
8	Arm, Bulk	88-67	<b>R-862B</b>	R.H.; Carton of 64
1	Rocker Shaft	89-67	<b>RS-626</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	89	<b>V-2141</b> Std Only	VIN Codes "4" & "P"; w/o Rotators; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	89	<b>V-3951</b> Std Only	VIN Codes "4" & "P"; w/Rotators; Chrome plated stem; 2 groove; 1.5170" Head Dia., .3717" Stem Dia., 4.9940" O.A.L.
8	Exhaust	88-83	<b>V-2141</b> Std Only	VIN Codes "4" & "P"; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	82-81	<b>V-2141</b> Std Only	VIN Codes "K" & "L"; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	80	<b>V-2141</b> Std Only	VIN Code "G"; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	79	<b>V-2141</b> Std Only	Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	78-67	<b>V-2029</b> Std-5-15	4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust	66-57	<b>V-1343</b> Std Only	4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust, Bulk	79-67	<b>V-2029B15</b> 15	4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Intake	89	<b>V-1908</b> Std-15	VIN Code "S"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	89-83	<b>V-1722</b> Std-5-15	VIN Codes "4" & "P"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	88-86	<b>V-1908</b> Std-15	VIN Codes "S" & "Z"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	85-83	<b>V-1908</b> Std-15	VIN Codes "R", "S" & "Z"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	82-81	<b>V-1722</b> Std-5-15	VIN Codes "K" & "L"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	82-81	<b>V-1908</b> Std-15	VIN Codes "M" & "N"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	80	<b>V-1722</b> Std-5-15	VIN Code "G"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	80	<b>V-1908</b> Std-15	VIN Code "H"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	79-67	<b>V-1722</b> Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	66-57	<b>V-1344</b> Std Only	2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
8	Intake, Bulk	89	<b>V-1908B15</b> 15	VIN Code "S"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	89-83	<b>V-1722B15</b> 15	VIN Codes "4" & "P"; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	88-86	<b>V-1908B15</b> 15	VIN Codes "S" & "Z"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**43 5.2L 318 OHV V8, 3.9063" Bore 1989-57**  
 (cont.) VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	85-83	V-1908B15 15	VIN Codes "R", "S" & "Z"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	82-81	V-1722B15 15	VIN Codes "K" & "L"; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	82-81	V-1908B15 15	VIN Codes "M" & "N"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	80	V-1722B15 15	VIN Code "G"; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	80	V-1908B15 15	VIN Code "H"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	79-67	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	89-67	VG-5062	Exh.; .3735" ID, 2.3800" O.A.L.
8	Guide	89-67	VG-5007T	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
8	Guide	89-57	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
8	Guide	66-57	VG-5033	Int.; .3735" ID, 2.6200" O.A.L.
8	Guide, Bulk	89-67	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	89-83	VS-510	VIN Codes "4" & "P"; 2.0000" Free Height
16	Spring	82-81	VS-510	VIN Codes "K" & "L"; 2.0000" Free Height
16	Spring	80-77	VS-510	VIN Code "G"; 2.0000" Free Height
16	Spring	76-57	VS-510	2.0000" Free Height
16	Spring, Bulk	89-83	VS-510B	VIN Codes "4" & "P"; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	82-81	VS-510B	VIN Codes "K" & "L"; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	80-77	VS-510B	VIN Code "G"; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	76-57	VS-510B	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	89-79	ST-2002	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	89-79	ST-2048	Int.; Positive type; Viton®
16	Valve Stem Seal	88-79	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	78	ST-2002	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	78	ST-2014	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	78	ST-2048	Int.; VIN Code "G"; O.E. design; Positive type; Viton®
16	Valve Stem Seal	77-73	ST-2002	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	77-73	ST-2014	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	77-73	ST-2048	Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	72-57	ST-2002	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	72-57	ST-2014	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	89-79	MV-1918	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	78	MV-1918	Exh.; VIN Code "G"; Umbrella type; Viton®
8	Valve Stem Seal	78	MV-1771C	Exh.; VIN Code "H"; Umbrella type; Polyacrylate
8	Valve Stem Seal	77-75	MV-1918	Exh.; Exc. Hi Alt.; Umbrella type; Viton®
8	Valve Stem Seal	77-75	MV-1771C	Exh.; Hi Alt.; Umbrella type; Polyacrylate
8	Valve Stem Seal	74-72	MV-1771C	Exh.; Umbrella type; Polyacrylate
16	Valve Stem Seal	71-67	MV-1771C	Exh. & Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal	65-60	MV-1918	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	65-60	MV-1771C	Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	89-79	ST-2002BC	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	88-79	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
8	Valve Stem Seal Bulk	78	MV-1771	Exh.; VIN Code "H"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	78	ST-2002BC	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	78	ST-2014BC	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
8	Valve Stem Seal Bulk	77-75	MV-1771	Exh.; Hi Alt.; Umbrella type; Carton of 100; Polyacrylate

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.2L 318 OHV V8, 3.9063" Bore 1989-57 43**

VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, (cont.)  
"M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal Bulk	77-73	<b>ST-2002BC</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	77-73	<b>ST-2014BC</b>	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
8	Valve Stem Seal Bulk	74-72	<b>MV-1771</b>	Exh.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72-57	<b>ST-2002BC</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72-57	<b>ST-2014BC</b>	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	71-67	<b>MV-1771</b>	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	65-60	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	89-80	<b>245-2000-1</b> Std Only	Use w/V-1908; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	89-67	<b>245-1625-2N</b> Std Only	Use w/V-2029 & V-2141; Premium Material; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Exh.	89-67	<b>245-1625-2</b> Std Only	Use w/V-2029 & V-2141; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Int.	89-67	<b>245-1812-1N</b> Std Only	Use w/V-1722; Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Int.	89-67	<b>245-1812-1</b> Std Only	Use w/V-1722; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Exh.	66-57	<b>245-1687-2N</b> Std Only	Use w/V-1343; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	66-57	<b>245-1687-2</b> Std Only	Use w/V-1343; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	66-57	<b>245-1937-1</b> Std Only	Use w/V-1344; 1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-57	<b>VK-66</b>	2 groove
16	Keeper	89-57	<b>VK-66R</b>	2 groove; Hardened
16	Keeper	89-57	<b>VK-174</b>	4 groove
16	Keeper	89-57	<b>VK-174R</b>	4 groove; Hardened
16	Spring Insert	89-57	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	89-57	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	89-57	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	89-57	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	89-57	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	89-85	<b>526P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
8	Cast Piston	84-67	<b>285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	84-67	<b>285NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
8	Cast Piston	67-58	<b>1061P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
8	Cast Piston	67-58	<b>1061NP30</b> * 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9844" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
8	Cast Piston - Individual	89-85	<b>W526P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
8	Cast Piston - Individual	84-67	<b>W285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	84-67	<b>W285NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-pin rod - 8.5:1 C.R.
8	Cast Piston - Individual	67-58	<b>W1061P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
1	Cast Piston Set w/Prem. Rings	89-85	<b>8K526P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	84-67	<b>8K285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**43** 5.2L 318 OHV V8, 3.9063" Bore 1989-57  
 (cont.) VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
	1	Cast Piston Set w/Prem. Rings	84-67	<b>8K285NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.	
	1	Cast Piston Set w/Econ. Rings	89-85	<b>8X526P20</b> 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.	
	1	Cast Piston Set w/Econ. Rings	84-67	<b>8X285NP20</b> 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.	
	8	Powerforged	72-67	<b>L-2329F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
	8	Forged Piston - Individual	72-67	<b>WL-2329F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
	8	Pin Bushing	80-57	<b>2134Y</b>		
	8	Pin Bushing	80-57	<b>2134Y20</b>	w/.020" extra bore stock	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	89-57	<b>E-178K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	89-57	<b>E-178X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	89-57	<b>WE-178K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	89-57	<b>WE-178X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	89-79	<b>7381MA10X20</b> 10X20	<b>A-Series aluminum bearings</b> ; Use in .020" O/S Bore	
	1	Main Set	89-79	<b>5095MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 bearing full grooved	
	1	Main Set	78-74	<b>5024MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 upper brg. grooved	
	1	Main Set	73-57	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
	1	Rod Set	89-57	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore	
	1	Rod Set	89-57	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable	
	1	Rod Set	89-57	<b>8-2130CA60</b> 60	Unplated & resizeable	
	8	Rod Pair	89-57	<b>2130CP</b> Std-1-2-10-20-30-40-50		
	1	Cam Set	89-57	<b>1484M</b> Std Only		
	1	Cam Set	79-57	<b>1451M</b> Std Only	.760" length ctr. brg.	
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	89-62	<b>224-4166</b>		
	1	Oil Pump	89-62	<b>224-4166V</b>	High Volume, check pan for clearance	
	1	Inter. Shaft	89-67	<b>224-6166</b>		
	1	Screen Assy.	89-65	<b>224-1166</b>		
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
	1	Kit Gasket Set	89	<b>260-1152</b>	VIN Codes "4", "P" & "S"; Premium valve stem seals incl.	
	1	Kit Gasket Set	88-86	<b>260-1152</b>	VIN Codes "4", "P", "S" & "Z"; Premium valve stem seals incl.	
	1	Kit Gasket Set	85-83	<b>260-1152</b>	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl.	
	1	Kit Gasket Set	82-81	<b>260-1152</b>	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl.	
	1	Kit Gasket Set	80-79	<b>260-1152</b>	VIN Codes "H" & "G"; Premium valve stem seals incl.	
	1	Kit Gasket Set	78	<b>260-1121</b>	VIN Code "H"; Premium valve stem seals incl.	
	1	Kit Gasket Set	78-76	<b>260-1152</b>	Hi-Perf. Engs.; Premium valve stem seals incl.	
	1	Kit Gasket Set	78-70	<b>260-1153</b>	VIN Code "G"; Premium valve stem seals incl.	
	1	Kit Gasket Set	69-68	<b>260-1153</b>	VIN Code "F"; Premium valve stem seals incl.	
	1	Kit Gasket Set	67	<b>260-1153</b>	w/5 bolt valve covers; Exc. Canadian Built Engs.; Premium valve stem seals incl.	
	1	Kit Gasket Set	67	<b>260-1571</b>	W/2 bolt valve covers; Canadian Built Engs.; Premium valve stem seals incl.	
	1	Kit Gasket Set	66-59	<b>260-1571</b>	Premium valve stem seals incl.	
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
	1	Brass Block Plug Kit	89-57	<b>381-8010</b>		
	1	Steel Block Plug Kit	89-57	<b>381-4014</b>		
KITS	RE-RING KIT				<i>PREMIUM</i>	<i>ECONOMY</i>
	YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>
	89	VIN Codes "4", "P" & "S"; Premium valve stem seals incl. Re-ring			<b>205-718</b>	----
89	VIN Codes "4", "P" & "S"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl. Re-ring w/Mains			<b>205-718AM</b>	<b>205-218AM</b>	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

5.2L 318 OHV V8, 3.9063" Bore 1989-57 **43**

VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, (cont.)  
"M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

K I T S	RE-RING KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	89	VIN Codes "4", "P" & "S"; Premium valve stem seals incl. Re-ring	----	205-218A	
	88-86	VIN Codes "4", "P", "S" & "Z"; Premium valve stem seals incl. Re-ring	205-718	----	
	88-86	VIN Codes "4", "P", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718AM	205-218AM	
	88-86	VIN Codes "4", "P", "S" & "Z"; Premium valve stem seals incl. Re-ring	----	205-218A	
	85-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl. Re-ring	205-718	----	
	85-83	VIN Codes "4", "P", "R", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718AM	205-218AM	
	85-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl. Re-ring	----	205-218A	
	82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl. Re-ring	205-718	----	
	82-81	VIN Codes "K", "L", "M" & "N"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718AM	205-218AM	
	82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl. Re-ring	----	205-218A	
	80-79	VIN Codes "H" & "G"; Premium valve stem seals incl. Re-ring	205-718	----	
	80-79	VIN Codes "H" & "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718AM	205-218AM	
	80-79	VIN Codes "H" & "G"; Premium valve stem seals incl. Re-ring	----	205-218A	
	78	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-717AM	205-217AM	
	78	VIN Code "G"; Premium valve stem seals incl. Re-ring	205-717A	205-217A	
	78	Hi-Perf. Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718M	205-218M	
	78	Hi-Perf. Eng.s.; Premium valve stem seals incl. Re-ring	205-718	----	
	78	Hi-Perf. Eng.s.; Premium valve stem seals incl. Re-ring	----	205-218A	
	78	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-743M	205-243M	
	78	VIN Code "H"; Premium valve stem seals incl. Re-ring	205-743	205-243	
	77	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-717AM	205-217AM	
	77	VIN Code "G"; Premium valve stem seals incl. Re-ring	205-717A	205-217A	
	77	Hi-Perf. Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718M	205-218M	
	77	Hi-Perf. Eng.s.; Premium valve stem seals incl. Re-ring	205-718	----	
	77	Hi-Perf. Eng.s.; Premium valve stem seals incl. Re-ring	----	205-218A	
	76	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-717AM	205-217AM	
	76	VIN Code "G"; Premium valve stem seals incl. Re-ring	205-717A	205-217A	
	76	Hi-Perf. Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl. Re-ring w/Mains	205-718M	205-218M	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 43 5.2L 318 OHV V8, 3.9063" Bore 1989-57

(cont.) VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
76	Hi-Perf. Engs.; Premium valve stem seals incl.	Re-ring	205-718	----
76	Hi-Perf. Engs.; Premium valve stem seals incl.	Re-ring	----	205-218A
75-74	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains	205-717AM	205-217AM
75-70	VIN Code "G"; Premium valve stem seals incl.	Re-ring	205-717A	205-217A
73-70	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-717M	205-217M
69-68	VIN Code "F"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-717M	205-217M
69-68	VIN Code "F"; Premium valve stem seals incl.	Re-ring	205-717A	205-217A
67	w/5 bolt valve covers; Exc. Canadian Built Engs.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-717M	205-217M
67	w/5 bolt valve covers; Exc. Canadian Built Engs.; Premium valve stem seals incl.	Re-ring	205-717A	205-217A
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
89	VIN Code "S"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-718C	MK-218C
89	VIN Code "S"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718D	MK-218D
89	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-718E	MK-218E
89	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718F	MK-218F
89	VIN Codes "4", "P", & "S"; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718H	505-218H
89	VIN Codes "4", "P", & "S"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718H MK-718H	MKP-218H MK-218H
89	VIN Code "S"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master	MKP-718L	MKP-218L
89	VIN Code "S"; w/flat lifters; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718L	505-218L
89-85	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master	MKP-718J	MKP-218J
89-85	VIN Codes "P" & "4"; w/rlr. lifters; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718J	505-218J
89-85	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-718K	MKP-218K
89-85	VIN Codes "P" & "4"; w/rlr. lifters; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718K	505-218K

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

5.2L 318 OHV V8, 3.9063" Bore 1989-57 **43**

VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, (cont.)  
"M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	88-86	VIN Codes "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-718C	MK-218C
	88-86	VIN Codes "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718D	MK-218D
	88-86	VIN Codes "4", "P", "S" & "Z"; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718H	505-218H
	88-86	VIN Codes "4", "P", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718H MK-718H	MKP-218H MK-218H
	88-86	VIN Codes "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master	MKP-718L	MKP-218L
	88-86	VIN Codes "S" & "Z"; w/flat lifters; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718L	505-218L
	88-85	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-718E	MK-218E
	88-85	VIN Codes "P" & "4"; w/rlr. lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718F	MK-218F
	85	VIN Codes "R", "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-718C	MK-218C
	85	VIN Codes "R", "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718D	MK-218D
	85	VIN Codes "4", "P", "R", "S" & "Z"; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718H	505-218H
	85	VIN Codes "4", "P", "R", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master	MKP-718H	MKP-218H
	85	VIN Codes "R", "S" & "Z"; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master	MKP-718L	MKP-218L
	85	VIN Codes "R", "S" & "Z"; w/flat lifters; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718L	505-218L
	85-83	VIN Codes "4", "P", "R", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718H	MK-218H
	84-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718A	----
	84-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	505-218A
	84-83	VIN Codes "4", "P", "R", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-718C MK-718C	MKP-218C MK-218C

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 43 5.2L 318 OHV V8, 3.9063" Bore 1989-57

(cont.) VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, "M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
84-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718C	----
84-83	VIN Codes "4", "P", "R", "S" & "Z"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718D MK-718D	MKP-218D MK-218D
84-83	VIN Codes "4", "P", "R", "S" & "Z"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	505-218D
82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718A	----
82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	505-218A
82-81	VIN Codes "K", "L", "M" & "N"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-718C MK-718C	MKP-218C MK-218C
82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718C	----
82-81	VIN Codes "K", "L", "M" & "N"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718D MK-718D	MKP-218D MK-218D
82-81	VIN Codes "K", "L", "M" & "N"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	505-218D
82-81	VIN Codes "K", "L", "M" & "N"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718H	MK-218H
80-79	VIN Codes "H" & "G"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718A	----
80-79	VIN Codes "H" & "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	505-218A
80-79	VIN Codes "H" & "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-718C MK-718C	MKP-218C MK-218C
80-79	VIN Codes "H" & "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718C	----
80-79	VIN Codes "H" & "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718D MK-718D	MKP-218D MK-218D
80-79	VIN Codes "H" & "G"; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	505-218D
80-79	VIN Codes "H" & "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Pistons	MK-718H	MK-218H
78	Hi-Perf. Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718A MK-718A	MKP-218A MK-218A
78	Hi-Perf. Eng.s.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718A	----
78	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; .760" length ctr. brg.; Pos. 1 upper bearing grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	----	MKP-243A
78	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper bearing grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-743A	----

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## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.2L 318 OHV V8, 3.9063" Bore 1989-57 43**

VIN Codes "E" 1966-67, "F" 1967-69, "G" 1970-80, "H" 1978-80, "J" 1981-82, "K" 1981-82, "L" 1981-82, (cont.)  
"M" 1981-82, "N" 1981-83, "P" 1983-89, "R" 1983-85, "S" 1983-89, "Z" 1983-88, "4" 1983-89

K I T S	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	78	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	<b>MK-743A</b>	<b>MK-243A</b>
	78	VIN Code "H"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-743A</b>	<b>505-243A</b>
	78-77	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-717C</b> <b>MK-717C</b>	<b>MKP-217C</b> <b>MK-217C</b>
	78-77	VIN Code "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-717C</b>	<b>505-217C</b>
	78-77	Hi-Perf. Engs.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	<b>505-218D</b>
	76	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-717C</b> <b>MK-717C</b>	<b>MKP-217C</b> <b>MK-217C</b>
	76	VIN Code "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-717C</b>	<b>505-217C</b>
	76	Hi-Perf. Engs.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	<b>505-218A</b>
	76	Hi-Perf. Engs.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-718C</b>	----
	75-74	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-717C</b> <b>MK-717C</b>	<b>MKP-217C</b> <b>MK-217C</b>
	75-74	VIN Code "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-717C</b>	<b>505-217C</b>
	73-70	VIN Code "G"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-717A</b> <b>MK-717A</b>	<b>MKP-217A</b> <b>MK-217A</b>
	73-70	VIN Code "G"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-717C</b>	<b>505-217C</b>
	69-68	VIN Code "F"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-717A</b> <b>MK-717A</b>	<b>MKP-217A</b> <b>MK-217A</b>
	69-68	VIN Code "F"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-717C</b>	<b>505-217C</b>

**5.3L 325 OHV V8 (Dodge), 3.6875" Bore 1958-57 44**

V A L V E  T R A I N	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Timing Chain	58-57	<b>222-348</b>
	1	Crank Sprocket	58-57	<b>223-274</b>	Use w/silent type chain; .750" wide sprocket; 23 Teeth
	1	Cam Sprocket	58-57	<b>223-273</b>	46 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Lifter	58-57	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	58-57	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Arm	58-57	<b>R-829</b>	L.H.
	8	Arm	58-57	<b>R-828</b>	R.H.
	2	Rocker Shaft	58-57	<b>RS-612</b>	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Spring	58-57	<b>VS-510</b>	2.0000" Free Height
	16	Spring, Bulk	58-57	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Valve Stem Seal	58-57	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate
	8	Valve Stem Seal	58-57	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
	16	Valve Stem Seal Bulk	58-57	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	8	Valve Stem Seal Bulk	58-57	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	58-57	<b>VK-174</b>	Exh.; 4 groove	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 44 5.3L 325 OHV V8 (Dodge), 3.6875" Bore 1958-57 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Keeper	58-57	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	58-57	VK-66	Int.; 2 groove
16	Keeper	58-57	VK-66R	Int.; 2 groove; Hardened

## 45 5.3L 326 OHV V8 (Dodge), 3.9531" Bore 1959

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	59	222-348	Silent type; 68 Links
1	Crank Sprocket	59	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Cam Sprocket	59	223-273	46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	59	HT-879 Std Only	Hyd.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	59	V-1343 Std Only	4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Intake	59	V-1344 Std Only	2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	59	VG-5033	Int.; .3735" ID, 2.6200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	59	VS-510	2.0000" Free Height
16	Spring, Bulk	59	VS-510B	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	59	ST-2002	Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	59	MV-1771C	Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	59	ST-2002BC	Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	59	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	59	VK-174	Exh.; 4 groove
16	Keeper	59	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	59	VK-66	Int.; 2 groove
16	Keeper	59	VK-66R	Int.; 2 groove; Hardened
16	Spring Insert	59	259-102C	.015"; Carton of 100
16	Spring Insert	59	259-102B	.030"; Carton of 100
16	Spring Insert	59	259-102A	.060"; Carton of 100
16	Spring Insert	59	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	59	2134Y	
8	Pin Bushing	59	2134Y20	w/.020" extra bore stock
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	59	4923MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	59	8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set	59	8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	59	8-2130CA60 60	Unplated & resizeable
8	Rod Pair	59	2130CP Std-1-2-10-20-30-40-50	
1	Cam Set	59	1484M Std Only	
1	Cam Set	59	1451M Std Only	.760" length ctr. brg.
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	59	260-1571	Premium valve stem seals incl.

## 46 5.4L 331 OHV V8 (Chrysler), 3.8125" Bore 1956-51

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	56-51	222-348	Silent type; 68 Links
1	Crank Sprocket	56-54	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Cam Sprocket	56	223-273	46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	56	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter	55	HT-812 Std Only	Exc. New Yorker; Hyd.; 1.830" - 1.860" Length
16	Lifter	54-53	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	56	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
16	Lifter, Bulk	55	HT-812B Std Only	Exc. New Yorker; Hyd.; Carton of 117; 1.830" - 1.860" Length

(continued on next page)



# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.4L 331 OHV V8 (Chrysler), 3.8125" Bore 1956-51 46**  
(cont.)

VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	(cont.) Lifter, Bulk	54-53	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	8	PUSH ROD Push Rod	55	RP-3059	Int.; New Yorker; 9.7700" O.A.L.
	8	VALVE GUIDE Guide	56-51	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
	16	VALVE SPRING Spring	56	VS-510	2.0000" Free Height
	16	Spring, Bulk	56	VS-510B	Carton of 250; 2.0000" Free Height
	16	VALVE SEAL Valve Stem Seal	56-55	ST-2002	Imperial; Installation requires valve guide machining; Polyacrylate
	16	Valve Stem Seal Bulk	56-55	ST-2002BC	Imperial; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	16	VALVE, MISC Keeper	56	VK-174	4 groove
	16	Keeper	56	VK-174R	4 groove; Hardened
	16	Keeper	55-51	VK-66	2 groove
	16	Keeper	55-51	VK-66R	2 groove; Hardened
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	8	Pin Bushing	56-51	1804V	
	8	SLEEVE Repair Sleeve	56-51	SL-93M Std Only	3/32" wall, must be cut to correct length
	1	ENGINE BEARINGS Main Set	56-51	916M Std-10	
	8	Rod Pair	56-51	1800CP Std-10	
	1	Cam Set	56-51	1149M Std Only	

**5.6L 340 OHV V8, 4.04" Bore 1973-68 47**  
VIN Codes "H" 1970-73, "J" 1970-71, "P" 1968-69

	1	TIMING 3 Piece Set	73-68	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
	1	Timing Set w/Gaskets	73-68	CTS-3002	Incl. double rlr. type chain
	1	Timing Chain	73-68	222-160	Double rlr.; 68 Links
	1	Crank Sprocket	73-68	223-297	Double row; 23 Teeth
	1	Cam Sprocket	73-68	223-402	Double row; 46 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	73-68	CS-644	
	16	Lifter	73-68	HT-2011 Std Only	Hyd.
	16	Lifter, Bulk	73-68	HT-2011B Std Only	Hyd.; Carton of 117
	16	Prelube	73-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	CAM KIT Cam/Lifter Kit	73-68	KC-644	Hyd.; Incl. (1) CS-644, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter/Timing Kit	73-68	KCT-644	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-644, (16) HT-2011, (1) KT3-160S, (1) 55-403B
	16	PUSH ROD Push Rod	73-72	RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
	16	Push Rod	71-70	RP-3194	VIN Code "J"; .312" dia. ball at both ends; 7.5000" O.A.L.
	16	Push Rod	71-70	RP-3219R100	VIN Code "J"; Ball & socket type ends; Chrome-Moly; 7.3900" O.A.L.
	16	Push Rod	71-70	RP-3159	VIN Code "J"; Ball & Socket type; 7.5720" O.A.L.
	16	Push Rod	69-68	RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
	16	Push Rod, Bulk	73-72	BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
	16	Push Rod, Bulk	71-70	BRP-3194	VIN Code "J"; .312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
	16	Push Rod, Bulk	69-68	BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	8	Arm	73-68	R-861	L.H.
	8	Arm	73-68	R-862	R.H.
	8	Arm, Bulk	73-68	R-861B	L.H.; Carton of 64
	8	Arm, Bulk	73-68	R-862B	R.H.; Carton of 64
	2	Rocker Shaft	73-68	RS-626	
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	73-68	V-3925 Std-15	4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**47 5.6L 340 OHV V8, 4.04" Bore 1973-68**  
 (cont.) VIN Codes "H" 1970-73, "J" 1970-71, "P" 1968-69

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust, Bulk	73-68	<b>V-3925B15</b> 15	2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Intake	73-72	<b>V-1908</b> Std-15	2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	71-68	<b>V-1864</b> Std Only	2.0200" Head Dia., .3725" Stem Dia., 4.9860" O.A.L.
8	Intake, Bulk	73-72	<b>V-1908B15</b> 15	2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	73-68	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.
8	Guide	73-68	<b>VG-5087</b>	Int.; Bronze; .3740" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	73-68	<b>VS-678</b>	Incl. damper; 1.9400" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	73-68	<b>ST-2002</b>	Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	73-68	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	73-68	<b>ST-2002BC</b>	Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	73-68	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	73-72	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	73-68	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73-68	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	71-68	<b>245-2125-1</b> Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	73-72	<b>VK-66</b>	2 groove
16	Keeper	73-72	<b>VK-66R</b>	2 groove; Hardened
16	Keeper	73-68	<b>VK-174</b>	4 groove
16	Keeper	73-68	<b>VK-174R</b>	4 groove; Hardened
16	Spring Insert	73-68	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	73-68	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	71-68	<b>428P</b> Std-20-30-40-60	Cast; Use on both R.H. & L.H. banks; 2-5/64", 1-3/16" Ring Groove, 1.829" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 10.2:1 C.R.
8	Cast Piston - Individual	71-68	<b>W428P</b> Std-20-30-40-60	Cast; Use on both R.H. & L.H. banks; 2-5/64", 1-3/16" Ring Groove, 1.829" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 10.2:1 C.R.
8	Powerforged	73-72	<b>L-2385F30</b> * 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71-68	<b>L-2316F20</b> 20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.840" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	73-72	<b>WL-2385F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71-68	<b>WL-2316F20</b> 20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.840" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin Bushing	73-68	<b>2134Y</b>	
8	Pin Bushing	73-68	<b>2134Y20</b>	w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	73-68	<b>E-286K</b> Std-30-40-60	2-5/64, 1-3/16
1	Standard Set	73-68	<b>E-286X</b> Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	73-68	<b>WE-286K30</b> 30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	73-68	<b>WE-286X30</b> 30	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-68	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	73-68	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set	73-68	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	73-68	<b>8-2130CA60</b> 60	Unplated & resizeable
8	Rod Pair	73-68	<b>2130CP</b> Std-1-2-10-20-30-40-50	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

5.6L 340 OHV V8, 4.04" Bore 1973-68 **47**  
VIN Codes "H" 1970-73, "J" 1970-71, "P" 1968-69 (cont.)

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION			
BLOCK	1	Cam Set	73-68	1484M Std Only				
	1	Cam Set	73-68	1451M Std Only	.760" length ctr. brg.			
	1	Oil Pump	73-68	224-4166				
	1	Oil Pump	73-68	224-4166V	High Volume, check pan for clearance			
	1	Inter. Shaft	73-68	224-6166				
	1	Screen Assy.	73-68	224-1166				
	1	Kit Gasket Set	73-68	260-1121	Premium valve stem seals incl.			
	1	Brass Block Plug Kit	73-68	381-8010				
	1	Steel Block Plug Kit	73-68	381-4014				
	KITS	<b>RE-RING KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
		73-68	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	73-68		Re-ring w/Mains	205-713M	205-213M
		73-68	Premium valve stem seals incl.			Re-ring	205-713	205-213
<b>OVERHAUL KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>		
73-72		Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain	73-72		Master w/o Pistons	MK-713A	MK-213A	
71-68		Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain	71-68		Master Master w/o Pistons	MKP-713A MK-713A	MKP-213A MK-213A	
71-68		Premium valve stem seals incl.; Incl. double rlr. type chain	71-68		Master w/o Rods & Mains	505-713A	505-213A	

5.6L 341 OHV V8 (DeSoto), 3.7813" Bore 1957 **48**

VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
VALVE TRAIN	16	Lifter	57	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length		
	16	Lifter, Bulk	57	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length		
	16	Spring	57	VS-510	2.0000" Free Height		
	16	Spring, Bulk	57	VS-510B	Carton of 250; 2.0000" Free Height		
	16	Valve Stem Seal	57	ST-2002	Installation requires valve guide machining; Polyacrylate		
	8	Valve Stem Seal	57	MV-1771C	Int.; Umbrella type; Polyacrylate		
	16	Valve Stem Seal Bulk	57	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate		
	8	Valve Stem Seal Bulk	57	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate		
	16	Keeper	57	VK-174	Exh.; 4 groove		
	16	Keeper	57	VK-174R	Exh.; 4 groove; Hardened		
	16	Keeper	57	VK-66	Int.; 2 groove		
	16	Keeper	57	VK-66R	Int.; 2 groove; Hardened		

5.7L 350 OHV V8, 4.0625" Bore 1958 **49**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
VALVE TRAIN	1	3 Piece Set	58	KT3-495S	Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291		
	1	Timing Chain	58	222-495	Silent type; 50 Links		
	1	Crank Sprocket	58	223-291	Use w/silent type chain; 19 Teeth		
	1	Cam Sprocket	58	223-290	Use w/silent type chain; 38 Teeth		
	1	Camshaft	58	CS-327			
	16	Lifter	58	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length		
	16	Lifter, Bulk	58	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length		
	1	Prelube	58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	1	Cam/Lifter Kit	58	KC-327A	Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B		
	16	Push Rod	58	RP-3031	8.6450" O.A.L.		
	8	Arm	58	R-829	L.H.		
	8	Arm	58	R-828	R.H.		

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## Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

### 49 5.7L 350 OHV V8, 4.0625" Bore 1958

(cont.)

	QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	2	Rocker Shaft	58	RS-612	
	8	VALVE Exhaust	58	V-1339 Std Only	DESCRIPTION 1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
	8	VALVE GUIDE Guide	58	VG-5073	DESCRIPTION Int.; .3745" ID, 2.3750" O.A.L.
	16	VALVE SPRING Spring	58	VS-673	DESCRIPTION 2.5800" Free Height
	16	VALVE SEAL Valve Stem Seal	58	ST-2002	DESCRIPTION Installation requires valve guide machining; Polyacrylate Int.; Umbrella type; Polyacrylate
	8		58	MV-1771C	
	16		58	ST-2002BC	
	8	VALVE SEAL Valve Stem Seal Bulk	58	MV-1771	DESCRIPTION Int.; Umbrella type; Carton of 100; Polyacrylate
	16	VALVE, MISC Keeper	58	VK-174	DESCRIPTION Exh.; 4 groove
	16		58	VK-174R	
16	58		VK-66		
16	58		VK-66R		
BLOCK	1	RINGS Premium Set	58	E-253K30 30-40-60	DESCRIPTION 2-5/64, 1-3/16
	1		58	E-253X Std-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	58	WE-253K30 30	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	58	WE-253X30 30	2-5/64, 1-3/16
	1	ENGINE BEARINGS Main Set	58	4094M Std-10-20-30-40-60	DESCRIPTION 3.453" max. flange OD
	1		58	8-2320CP Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
	1		58	8-2320CA60 60	Unplated & resizeable
	8		58	2320CP Std-1-10-20-30-40-50	
	1		58	1453M Std Only	Babbitt material; Full round design
	1	OIL PUMP Oil Pump	58	224-4174V	DESCRIPTION High-Volume; Use original cover plate on Eng. w/canister oil filter
	1		58	224-4174	Use original cover plate on Eng. w/canister oil filter
	1		58	224-5174	
	1		58	224-6174	
	1	GASKETS Valley Pan Gasket Set	58	260-4011	DESCRIPTION

### 50 5.8L 354 OHV V8 (Chrysler), 3.9375" Bore 1959-56

VALVE TRAIN	16	CAMSHAFT/LIFTER Lifter	58-57	HT-812 Std Only	DESCRIPTION Hyd.; 1.830" - 1.860" Length
	16		56	HT-812 Std Only	Exc. New Yorker; Exc. 300; Hyd.; 1.830" - 1.860" Length
	16		58-57	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	16		56	HT-812B Std Only	Exc. New Yorker; Exc. 300; Hyd.; Carton of 117; 1.830" - 1.860" Length
	8	PUSH ROD Push Rod	58-56	RP-3059	DESCRIPTION Int.; New Yorker, 300; 9.7700" O.A.L.
	8	VALVE GUIDE Guide	58-56	VG-5073	DESCRIPTION Int.; .3745" ID, 2.3750" O.A.L.
	16	VALVE SPRING Spring	58-57	VS-510	DESCRIPTION 2.0000" Free Height
	16		58-57	VS-510B	Carton of 250; 2.0000" Free Height
	16	VALVE SEAL Valve Stem Seal	58-57	ST-2002	DESCRIPTION Installation requires valve guide machining; Polyacrylate Exc. New Yorker; Exc. 300; Installation requires valve guide machining; Polyacrylate
	16		56	ST-2002	
8	58-56		MV-1771C		
16	VALVE SEAL Valve Stem Seal Bulk	58-57	ST-2002BC	DESCRIPTION Int.; Umbrella type; Polyacrylate	
8	VALVE SEAL Valve Stem Seal Bulk	58-56	MV-1771	DESCRIPTION Int.; Umbrella type; Carton of 100; Polyacrylate	
16		56	ST-2002BC		
16	VALVE, MISC Keeper	58-56	VK-174	DESCRIPTION Exh.; 4 groove	
16		58-56	VK-174R		

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.8L 354 OHV V8 (Chrysler), 3.9375" Bore 1959-56 50**  
(cont.)

	QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
	16	Keeper	58-56	VK-66	Int.; 2 groove
	16	Keeper	58-56	VK-66R	Int.; 2 groove; Hardened
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Pin Bushing	59-56	1804V	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Standard Set	58-56	E-252X Std-30	2-5/64, 1-3/16
<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	59-56	916M Std-10	
	8	Rod Pair	59-56	1800CP Std-10	
	1	Cam Set	59-56	1149M Std Only	

**5.9L 360 OHV V8, 4" Bore 1980-71 51**  
VIN Codes "J" 1974-80, "K" 1971-80, "L" 1974-80

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	80-77	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
	1	3 Piece Set	80-77	KT3-361S	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
	1	3 Piece Set	76-74	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
	1	3 Piece Set	76-74	KT3-361S	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
	1	3 Piece Set	73-71	KT3-361S	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
	1	Timing Set w/Gaskets	80-74	CTS-3002	Incl. double rlr. type chain
	1	Timing Set w/Gaskets	80-71	CTS-3000	Incl. silent type chain
	1	Timing Chain	80-77	222-361	Exc. Hi-Perf.; Exc. H/D; Silent type; 68 Links
	1	Timing Chain	80-77	222-160	Hi-Perf. & H/D; Double rlr.; 68 Links
	1	Timing Chain	76-74	222-361	VIN Code "K"; Silent type; 68 Links
	1	Timing Chain	76-74	222-160	VIN Codes "J" & "L"; Double rlr.; 68 Links
	1	Timing Chain	73-71	222-361	Silent type; 68 Links
	1	Crank Sprocket	80-77	223-297	Double row; 23 Teeth
	1	Crank Sprocket	80-77	223-359	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Crank Sprocket	76-74	223-359	VIN Code "K"; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Crank Sprocket	76-74	223-297	VIN Codes "J" & "L"; Double row; 23 Teeth
	1	Crank Sprocket	73-71	223-359	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Cam Sprocket	80-77	223-402	Double row; 46 Teeth
	1	Cam Sprocket	80-77	223-358	Use w/silent type chain; 46 Teeth
	1	Cam Sprocket	76-74	223-358	VIN Code "K"; Use w/silent type chain; 46 Teeth
	1	Cam Sprocket	76-74	223-402	VIN Codes "J" & "L"; Double row; 46 Teeth
	1	Cam Sprocket	73-71	223-358	Use w/silent type chain; 46 Teeth
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	80-77	CS-665	
	1	Camshaft	76-74	CS-665	VIN Code "K"; w/o Calif. Emis.
	1	Camshaft	76-74	CS-644	VIN Codes "J" & "L"; w/o Calif. Emis.
	1	Camshaft	73-71	CS-665	
	16	Lifter	80-71	HT-2011 Std Only	Hyd.
	16	Lifter, Bulk	80-71	HT-2011B Std Only	Hyd.; Carton of 117
	1	Prelube	80-71	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	80-77	KC-665	Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	76-74	KC-665	VIN Code "K"; w/o Calif. Emis.; Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B	
1	Cam/Lifter Kit	76-74	KC-644	VIN Codes "J" & "L"; w/o Calif. Emis.; Hyd.; Incl. (1) CS-644, (16) HT-2011, (1) 55-403B	
1	Cam/Lifter Kit	73-71	KC-665	Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B	
1	Cam/Lifter/Timing Kit	80-77	KCT-665	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-160S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	80-77	KCT-665A	Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	76-74	KCT-665A	VIN Code "K"; w/o Calif. Emis.; Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	76-74	KCT-644	VIN Codes "J" & "L"; w/o Calif. emis.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-644, (16) HT-2011, (1) KT3-160S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	73-71	KCT-665A	Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**51** 5.9L 360 OHV V8, 4" Bore 1980-71  
 (cont.) VIN Codes "J" 1974-80, "K" 1971-80, "L" 1974-80

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	80-71	RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk	80-71	BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	80-71	R-861	L.H.
8	Arm	80-71	R-862	R.H.
8	Arm, Bulk	80-71	R-861B	L.H.; Carton of 64
8	Arm, Bulk	80-71	R-862B	R.H.; Carton of 64
2	Rocker Shaft	80-71	RS-626	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	80-71	V-3925 Std-15	VIN Code "K"; 4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.
8	Exhaust, Bulk	80-71	V-3925B15 15	VIN Code "K"; 2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Intake	80-71	V-1908 Std-15	2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	80-71	V-1908B15 15	2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	80-71	VG-5007	Exh. & Int.; .3725" ID, 2.3800" O.A.L.
16	Guide	80-71	VG-5062	Exh. & Int.; .3735" ID, 2.3800" O.A.L.
16	Guide	80-71	VG-5007T	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	80-71	VG-5007B	Exh. & Int.; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	80-71	VG-5007TB	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	80-77	VS-510	2.0000" Free Height
16	Spring	76-74	VS-510	VIN Code "K"; 2.0000" Free Height
16	Spring	76-74	VS-678	VIN Codes "J" & "L"; Incl. damper; 1.9400" Free Height
16	Spring	73-71	VS-510	2.0000" Free Height
16	Spring, Bulk	80-77	VS-510B	Carton of 250; 2.0000" Free Height
16	Spring, Bulk	76-74	VS-510B	VIN Code "K"; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	73-71	VS-510B	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	80-74	ST-2048	Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	80-71	ST-2002	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	80-75	MV-1918	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	74	MV-1771C	Exh.; VIN Code "L"; Umbrella type; Polyacrylate
8	Valve Stem Seal	74	MV-1918	Exh.; VIN Codes "J" & "L"; Umbrella type; Viton®
16	Valve Stem Seal	73-71	MV-1771C	Exh. & Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	80-71	ST-2002BC	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	74	MV-1771	Exh.; VIN Code "L"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	73-71	MV-1771	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	80-71	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	80-71	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	80-71	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	80-71	VK-66	2 groove
16	Keeper	80-71	VK-66R	2 groove; Hardened
16	Keeper	80-71	VK-174	4 groove
16	Keeper	80-71	VK-174R	4 groove; Hardened
16	Spring Insert	80-71	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	80-71	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	80-71	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	80-71	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	80-71	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	80-71	405CP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; DurOshield® skirt coated piston
8	Cast Piston	80-71	405P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
8	Cast Piston - Individual	80-71	W405P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	80-71	8K405CP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; DurOshield® skirt coated piston

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.9L 360 OHV V8, 4" Bore 1980-71 51**

VIN Codes "J" 1974-80, "K" 1971-80, "L" 1974-80 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
1	Cast Piston Set w/Prem. Rings	80-71	<b>8K405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.	
1	Cast Piston Set w/Econ. Rings	80-71	<b>8X405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	80-71	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16	
1	Premium Set	80-71	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16	
1	Premium Set	80-71	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set	
1	Standard Set	80-71	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	80-71	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	80-71	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	80-71	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
8	Repair Sleeve	80-71	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
8	Repair Sleeve	80-71	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	80-74	<b>4999MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b> ; w/3.910" max. flange OD	
1	Main Set	73-71	<b>4948MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; 3.685" max. flange OD	
1	Rod Set	80-71	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore	
1	Rod Set	80-71	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable	
1	Rod Set	80-71	<b>8-2130CA60</b> 60	Unplated & resizeable	
8	Rod Pair	80-71	<b>2130CP</b> Std-1-2-10-20-30-40-50		
1	Cam Set	80-79	<b>1484M</b> Std Only		
1	Cam Set	78-71	<b>1451M</b> Std Only	.760" length ctr. brg.	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	80-71	<b>224-4166</b>		
1	Oil Pump	80-71	<b>224-4166V</b>	High Volume, check pan for clearance	
1	Inter. Shaft	80-71	<b>224-6166</b>		
1	Screen Assy.	80	<b>224-1166</b>	Exc. Newport & New Yorker	
1	Screen Assy.	79-78	<b>224-1166</b>	Exc. Newport, New Yorker & Monaco	
1	Screen Assy.	78-74	<b>224-1266</b>	Newport, New Yorker, Monaco & Gran Fury	
1	Screen Assy.	77	<b>224-1166</b>	Exc. Newport, New Yorker, Monaco & Gran Fury	
1	Screen Assy.	76-75	<b>224-1166</b>	Exc. Newport, Monaco & Gran Fury	
1	Screen Assy.	74	<b>224-1166</b>	Exc. Newport, Monaco & Fury	
1	Screen Assy.	73-71	<b>224-1166</b>	Exc. Newport	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	80-79	<b>260-1095</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	78-76	<b>260-1033</b>	Exc. Hi-Perf. Engs.; Premium valve stem seals incl.	
1	Kit Gasket Set	78-76	<b>260-1095</b>	Hi-Perf. Engs.; Premium valve stem seals incl.	
1	Kit Gasket Set	75-71	<b>260-1033</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	80-71	<b>381-8010</b>		
1	Steel Block Plug Kit	80-71	<b>381-4014</b>		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
80-79	Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	<b>205-683AM</b>	<b>205-183AM</b>
80-79	Premium valve stem seals incl.		Re-ring	<b>205-683A</b>	<b>205-183A</b>
78-76	Exc. Hi-Perf. Engs.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	<b>205-622AM</b>	<b>205-122AM</b>
78-76	Exc. Hi-Perf. Engs.; Premium valve stem seals incl.		Re-ring	<b>205-622A</b>	<b>205-122A</b>
78-76	Hi-Perf. Engs.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	<b>205-683AM</b>	<b>205-183AM</b>
78-76	Hi-Perf. Engs.; Premium valve stem seals incl.		Re-ring	<b>205-683A</b>	<b>205-183A</b>
75-74	Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	<b>205-622AM</b>	<b>205-122AM</b>
75-71	Premium valve stem seals incl.		Re-ring	<b>205-622A</b>	<b>205-122A</b>
73-71	Incl. <b>A-Series aluminum bearings</b> ; w/3.685" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	<b>205-622M</b>	<b>205-122M</b>

BLOCK

BLOCK

KITS

KITS

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**51 5.9L 360 OHV V8, 4" Bore 1980-71**  
 (cont.) VIN Codes "J" 1974-80, "K" 1971-80, "L" 1974-80

<b>K I T S</b>	<b>OVERHAUL KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>	
	80-79	Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	<b>MKP-683C</b> <b>MK-683C</b>	<b>MKP-183C</b> <b>MK-183C</b>	
80-79	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	<b>505-683C</b>	<b>505-183C</b>		

**52 5.9L 361 OHV V8, 4.125" Bore 1966-58**  
 VIN Code "F" 1966

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	66	<b>KT3-168S</b>	Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380
1	3 Piece Set	66	<b>KT3-501S</b>	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367
1	3 Piece Set	65-58	<b>KT3-168S</b>	Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380
1	3 Piece Set	65-58	<b>KT3-495S</b>	Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291
1	Timing Chain	66	<b>222-168</b>	Double rlr.; 66 Links
1	Timing Chain	66	<b>222-501</b>	Silent type; 50 Links
1	Timing Chain	65-58	<b>222-168</b>	Double rlr.; 66 Links
1	Timing Chain	65-58	<b>222-495</b>	Silent type; 50 Links
1	Crank Sprocket	66	<b>223-339</b>	Double row; 25 Teeth
1	Crank Sprocket	65-58	<b>223-339</b>	Double row; 25 Teeth
1	Crank Sprocket	65-58	<b>223-291</b>	Use w/silent type chain; 19 Teeth
1	Cam Sprocket	66	<b>223-380</b>	Double row; 50 Teeth
1	Cam Sprocket	65-58	<b>223-380</b>	Double row; 50 Teeth
1	Cam Sprocket	65-58	<b>223-290</b>	Use w/silent type chain; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	66-58	<b>CS-327</b>	
16	Lifter	66-58	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	66-58	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	66-58	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	66-58	<b>KC-327A</b>	Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	66-58	<b>RP-3031</b>	Exc. Hi-Perf. Engs.; 8.6450" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	66-58	<b>R-829</b>	L.H.
8	Arm	66-58	<b>R-828</b>	R.H.
2	Rocker Shaft	66-58	<b>RS-612</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	66-58	<b>V-1339</b> Std Only	1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Intake	66-58	<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	66-58	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	66-58	<b>VS-673</b>	2.5800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	66-58	<b>ST-2002</b>	Exc. Engs. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	66-59	<b>MV-1707C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	66-59	<b>MV-1707</b>	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	66-58	<b>ST-2002BC</b>	Exc. Engs. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	66-58	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	66-58	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	66-58	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	66-58	<b>VK-174</b>	Exh.; 4 groove
16	Keeper	66-58	<b>VK-174R</b>	Exh.; 4 groove; Hardened
16	Keeper	66-58	<b>VK-66</b>	Int.; 2 groove
16	Keeper	66-58	<b>VK-66R</b>	Int.; 2 groove; Hardened
16	Spring Insert	66-58	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**5.9L 361 OHV V8, 4.125" Bore 1966-58 52**  
VIN Code "F" 1966 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring Insert	66-58	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Pin	66-58	<b>P-1940</b> Std-3	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	66-58	<b>E-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	66-58	<b>E-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	66-58	<b>WE-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	66-58	<b>WE-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	66-58	<b>4094M</b> Std-10-20-30-40-60	3.453" max. flange OD
1	Rod Set	66-58	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	66-58	<b>8-2320CA60</b> 60	Unplated & resizeable
8	Rod Pair	66-58	<b>2320CP</b> Std-1-10-20-30-40-50	
1	Cam Set	66-58	<b>1453M</b> Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	66-58	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	66-58	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	66-58	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter
1	Pump Repair Kit	66-58	<b>224-5174</b>	
1	Inter. Shaft	66-58	<b>224-6174</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	66-63	<b>260-1001</b>	w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	66-59	<b>260-4011</b>	
1	Valley Pan Gasket Set	66-58	<b>260-4034</b>	Premium Set; Performance manifold gskts. incl.
1	Valley Pan Gasket Set	58	<b>260-4019</b>	Canadian Firedome & Fireflite raised block Eng.
1	Valley Pan Gasket Set	58	<b>260-4011</b>	Exc. Canadian Firedome & Fireflite raised block Eng.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	66-58	<b>381-8011</b>	
1	Steel Block Plug Kit	66-58	<b>381-4031</b>	

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**6.3L 383 OHV V8, 4.25" Bore 1971-59 53**

VIN Codes "G" 1966-69, "H" 1967-69, "L" 1970-71, "N" 1970-71

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	71-66	<b>KT3-501S</b>	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367
1	3 Piece Set	71-59	<b>KT3-168S</b>	Incl. rr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380
1	3 Piece Set	65-59	<b>KT3-495S</b>	Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291
1	Timing Chain	71-66	<b>222-168</b>	Double rr.; 66 Links
1	Timing Chain	71-66	<b>222-501</b>	Silent type; 50 Links
1	Timing Chain	65-59	<b>222-168</b>	Double rr.; 66 Links
1	Timing Chain	65-59	<b>222-495</b>	Silent type; 50 Links
1	Crank Sprocket	71-66	<b>223-339</b>	Double row; 25 Teeth
1	Crank Sprocket	65-59	<b>223-339</b>	Double row; 25 Teeth
1	Crank Sprocket	65-59	<b>223-291</b>	Use w/silent type chain; 19 Teeth
1	Cam Sprocket	71-66	<b>223-380</b>	Double row; 50 Teeth
1	Cam Sprocket	65-59	<b>223-380</b>	Double row; 50 Teeth
1	Cam Sprocket	65-59	<b>223-290</b>	Exc. Eng. w/Ram manifold; Use w/silent type chain; 38 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	71-69	<b>CS-327</b>	Exc. Hi-Perf.
1	Camshaft	71-69	<b>CS-661</b>	Hi-Perf.
1	Camshaft	68-59	<b>CS-327</b>	Exc. Hi-Perf.
16	Lifter	71-68	<b>HT-976</b> Std Only	Hyd.
16	Lifter	67-59	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	71-68	<b>HT-976B</b> Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	67-59	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	71-59	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	71	<b>KC-327</b>	Exc. Hi-Perf.; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-661</b>	Hi-Perf.; Hyd.; Incl. (1) CS-661, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	70-68	<b>KC-327</b>	Exc. Hi-Perf.; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**53** 6.3L 383 OHV V8, 4.25" Bore 1971-59  
 (cont.) VIN Codes "G" 1966-69, "H" 1967-69, "L" 1970-71, "N" 1970-71

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	67-59	KC-327A	Exc. Hi-Perf.; Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	KCT-327	Exc. Hi-Perf.; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	70-68	KCT-327	Exc. Hi-Perf.; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	71-68	RP-3191	8.5750" O.A.L.
16	Push Rod	67-65	RP-3031	8.6450" O.A.L.
16	Push Rod	64-61	RP-3031	Exc. Hi-Perf. Enggs.; 8.6450" O.A.L.
16	Push Rod	60-59	RP-3031	8.6450" O.A.L.
16	Push Rod	60-59	RP-3034	9.3750" O.A.L.
16	Push Rod, Bulk	71-68	BRP-3191	Carton of 100; 8.5750" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	71-61	R-829	L.H.
8	Arm	71-61	R-828	R.H.
2	Rocker Shaft	71-61	RS-612	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	71-68	V-1900 Std Only	4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.
8	Exhaust	67-59	V-1339 Std Only	1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Intake	71-61	V-1386 Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake	60-59	V-1386 Std Only	Exc. Chrysler; 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	71-59	VG-5088	Exh. & Int.; Bronze; .3735" ID, 2.6250" O.A.L.
8	Guide	71-59	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	71-70	VS-673	VIN Code "L"; 2.5800" Free Height
16	Spring	71-70	VS-675	VIN Code "N"; Incl. damper; 2.2300" Free Height
16	Spring	69-68	VS-673	VIN Code "G"; 2.5800" Free Height
16	Spring	69-68	VS-675	VIN Code "H"; Incl. damper; 2.2300" Free Height
16	Spring	67-60	VS-673	2.5800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	71-59	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	71-59	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	71-60	MV-1707C	Exh. & Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal	59	MV-1707C	Exh. & Int.; Exc. Eng. Code "D500"; Umbrella type; Polyacrylate
8	Valve Stem Seal	59	MV-1771C	Int.; Eng. Code "D500"; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	71-60	MV-1707	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	71-59	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	71-59	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	59	MV-1707	Exh. & Int.; Exc. Eng. Code "D500"; Umbrella type; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	59	MV-1771	Int.; Eng. Code "D500"; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	71-68	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	71-68	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	71-59	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	67-59	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Exh.	67-59	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	71-59	VK-174	Exh.; 4 groove
16	Keeper	71-59	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	71-59	VK-66	Int.; 2 groove
16	Keeper	71-59	VK-66R	Int.; 2 groove; Hardened
16	Spring Insert	71-59	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	71-59	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	71-59	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	71-59	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	71-59	259-103ARS	.060"; ID 1.030"; Carton of 500

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

6.3L 383 OHV V8, 4.25" Bore 1971-59 **53**

VIN Codes "G" 1966-69, "H" 1967-69, "L" 1970-71, "N" 1970-71 (cont.)

QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston	71-59	<b>366NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.848" CD, 1.0939" Pin Dia., Flat Head - 8.4:1 C.R.	
8	Cast Piston - Individual	71-59	<b>W366NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.848" CD, 1.0939" Pin Dia., Flat Head - 8.4:1 C.R.	
8	Powerforged	71-70	<b>L-2315F30</b> 30-40-60	VIN Code "N"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.920" CD, 1.0938" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>	
8	Powerforged	69-68	<b>L-2315F30</b> 30-40-60	VIN Code "H"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.920" CD, 1.0938" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	71-70	<b>WL-2315F30</b> 30-40-60	VIN Code "N"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.920" CD, 1.0938" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	69-68	<b>WL-2315F30</b> 30-40-60	VIN Code "H"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.920" CD, 1.0938" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	71-59	<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	71-59	<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	71-59	<b>WE-233K</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	71-59	<b>WE-233X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	71-59	<b>4094M</b> Std-10-20-30-40-60	3.453" max. flange OD	
1	Main Set	60-59	<b>4924MA</b> Std-10-20-30	<b>A-Series aluminum bearings;</b> Partial grooved; 3.624" max. flange OD	
1	Rod Set	71-59	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable	
1	Rod Set	71-59	<b>8-2320CA60</b> 60	Unplated & resizeable	
8	Rod Pair	71-59	<b>2320CP</b> Std-1-10-20-30-40-50		
1	Cam Set	71-59	<b>1453M</b> Std Only	Babbitt material; Full round design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	71-59	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter	
1	Oil Pump	71-59	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter	
1	Oil Pump	71-59	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter	
1	Pump Repair Kit	71-59	<b>224-5174</b>		
1	Inter. Shaft	71-59	<b>224-6174</b>		
1	Screen Assy.	70-67	<b>224-15055</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	71-64	<b>260-1001</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl. w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	63	<b>260-1001</b>		
1	Valley Pan Gasket Set	71-61	<b>260-4011</b>		
1	Valley Pan Gasket Set	71-59	<b>260-4034</b>	Premium Set; Performance manifold gskts. incl.	
1	Valley Pan Gasket Set	60-59	<b>260-4019</b>	Canadian Firedome & Fireflite raised block Eng.	
1	Valley Pan Gasket Set	60-59	<b>260-4011</b>	Exc. Canadian Firedome & Fireflite raised block Eng.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	71-59	<b>381-8011</b>		
1	Steel Block Plug Kit	71-59	<b>381-4031</b>		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
71-64	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring	<b>205-667</b>	<b>205-167</b>
63	w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring	<b>205-667</b>	<b>205-167</b>
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
71	Exc. Hi-Perf.; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD		Master Master w/o Pistons	<b>MKP-667E</b> <b>MK-667E</b>	<b>MKP-167E</b> <b>MK-167E</b>
70-68	Exc. Hi-Perf.; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD		Master Master w/o Pistons	<b>MKP-667E</b> <b>MK-667E</b>	<b>MKP-167E</b> <b>MK-167E</b>
67-66	Exc. Hi-Perf.; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD		Master Master w/o Pistons	<b>MKP-667F</b> <b>MK-667F</b>	<b>MKP-167F</b> <b>MK-167F</b>

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**53 6.3L 383 OHV V8, 4.25" Bore 1971-59**  
 (cont.) VIN Codes "G" 1966-69, "H" 1967-69, "L" 1970-71, "N" 1970-71

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	65-64	Exc. Hi-Perf.; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master Master w/o Pistons	MKP-667G MK-667G	----- MK-167G
	63	Exc. Hi-Perf.; w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master Master w/o Pistons	MKP-667G MK-667G	----- MK-167G

**54 6.4L 392 OHV V8 (Chrysler), 4" Bore 1958-57**

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Timing Chain	58-57	222-348	
	1	Crank Sprocket	58-57	223-274	Use w/silent type chain; .750" wide sprocket; 23 Teeth	
	1	Cam Sprocket	58-57	223-273	46 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		16	Lifter	58-57	HT-812 Std Only	
	16	Lifter, Bulk	58-57	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length	
V A L V E T R A I N	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		16	Spring	58-57	VS-510	
	16	Spring, Bulk	58-57	VS-510B	Carton of 250; 2.0000" Free Height	
V A L V E T R A I N	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		16	Valve Stem Seal	58-57	ST-2002	
	8	Valve Stem Seal	58-57	MV-1771C	Int.; Umbrella type; Polyacrylate	
	16	Valve Stem Seal Bulk	58-57	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
	8	Valve Stem Seal Bulk	58-57	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate	
V A L V E T R A I N	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		16	Keeper	58-57	VK-174	
	16	Keeper	58-57	VK-174R	Exh.; 4 groove; Hardened	
	16	Keeper	58-57	VK-66	Int.; 2 groove	
	16	Keeper	58-57	VK-66R	Int.; 2 groove; Hardened	
B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	B L O C K
		8	Pin Bushing	58-57	1804V	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	B L O C K
		1	Premium Set	58-57	E-251K Std-10-20-30-40-60	
	1	Premium Set	58-57	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	58-57	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	58-57	WE-251K Std-20-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	58-57	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	58-57	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16	
B L O C K	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	B L O C K
		8	Repair Sleeve	58-57	SL-22Y Std Only	
	8	Repair Sleeve	58-57	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	B L O C K
		1	Main Set	58-57	4009M Std-10	
	8	Rod Pair	58-57	2235SB Std-10		
	1	Cam Set	58-57	1149M Std Only		

**55 6.6L 400 OHV V8, 4.342" Bore 1978-72**  
 VIN Codes "M" 1972-76, "N" 1974-78, "P" 1972-78

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	3 Piece Set	78-75	KT3-168S	
	1	3 Piece Set	76-75	KT3-501S	VIN Code "M"; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	3 Piece Set	74-72	KT3-501S	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	Timing Chain	78-75	222-168	VIN Codes "N" & "P"; Double rlr.; 66 Links	
	1	Timing Chain	76-75	222-501	VIN Code "M"; Silent type; 50 Links	
	1	Timing Chain	74-72	222-501	Silent type; 50 Links	
	1	Crank Sprocket	78-75	223-339	VIN Codes "N" & "P"; Double row; 25 Teeth	
	1	Cam Sprocket	78-75	223-380	VIN Codes "N" & "P"; Double row; 50 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Camshaft	78-75	CS-327	
	1	Camshaft	74	CS-661	VIN Codes "N" & "P"	

(continued on next page)

# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**6.6L 400 OHV V8, 4.342" Bore 1978-72 55**  
VIN Codes "M" 1972-76, "N" 1974-78, "P" 1972-78 (cont.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	74-72	CS-327	VIN Code "M"
1	Camshaft	73-72	CS-661	VIN Code "P"
16	Lifter	78-72	HT-976 Std Only	Hyd.
16	Lifter, Bulk	78-72	HT-976B Std Only	Hyd.; Carton of 117
1	Prelube	78-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	78-75	KC-327	Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	74	KC-661	VIN Codes "N" & "P"; Hyd.; Incl. (1) CS-661, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	74-72	KC-327	VIN Code "M"; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	73-72	KC-661	VIN Code "P"; Hyd.; Incl. (1) CS-661, (16) HT-976, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-327	VIN Code "M"; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-72	KCT-327	VIN Code "M"; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	78-72	RP-3191	8.5750" O.A.L.
16	Push Rod, Bulk	78-72	BRP-3191	Carton of 100; 8.5750" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	78-72	R-829	L.H.
8	Arm	78-72	R-828	R.H.
1	Rocker Shaft	78-72	RS-612	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	78-72	V-1900 Std Only	4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.
8	Intake	78-72	V-1386 Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	78-72	VG-5073	Exh. & Int.; .3745" ID, 2.3750" O.A.L.
16	Guide	78-72	VG-5088	Exh. & Int.; Bronze; .3735" ID, 2.6250" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	75-74	VS-675	VIN Codes "N" & "P"; Incl. damper; 2.2300" Free Height
16	Spring	75-72	VS-673	VIN Code "M"; 2.5800" Free Height
16	Spring	73-72	VS-675	VIN Code "P"; Incl. damper; 2.2300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	78-73	ST-2004	Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	78-72	ST-2002	Exh. & Int.; Exc. Engs. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	78-72	ST-2014	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	78-72	ST-2048	Int.; O.E. design; Positive type; Viton®
8	Valve Stem Seal	78-76	MV-1918	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	75-73	MV-1707C	Exh.; Umbrella type; Polyacrylate
16	Valve Stem Seal	72	MV-1707C	Exh. & Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk	78-73	ST-2004BC	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	78-72	ST-2002BC	Exh. & Int.; Exc. Engs. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	78-72	ST-2014BC	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
8	Valve Stem Seal Bulk	75-73	MV-1707	Exh.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72	MV-1707	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	78-72	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Exh.	78-72	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	78-72	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	78-72	VK-174	Exh.; 4 groove
16	Keeper	78-72	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	78-72	VK-66	Int.; 2 groove
16	Keeper	78-72	VK-66R	Int.; 2 groove; Hardened
16	Spring Insert	78-72	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	78-72	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	78-72	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	78-72	259-103A	.060"; ID 1.030"; Carton of 100

VALVE TRAIN

VALVE TRAIN

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**55 6.6L 400 OHV V8, 4.342" Bore 1978-72**  
 (cont.) VIN Codes "M" 1972-76, "N" 1974-78, "P" 1972-78

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring Insert	78-72	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	78-72	<b>406AP</b> Std-20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
8	Cast Piston - Individual	78-72	<b>W406AP</b> Std-20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
8	Pin	78-72	<b>P-1940</b> Std-3	Pin bushing not req'd.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	78-72	<b>E-318K</b> Std-30	2-5/64, 1-3/16
1	Standard Set	78-72	<b>E-318X</b> Std-30	2-5/64, 1-3/16
8	Premium Single Cylinder Set	78-72	<b>WE-318K30</b> 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	78-72	<b>WE-318X</b> Std Only	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	78-72	<b>4094M</b> Std-10-20-30-40-60	3.453" max. flange OD
1	Rod Set	78-72	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	78-72	<b>8-2320CA60</b> 60	Unplated & resizeable
8	Rod Pair	78-72	<b>2320CP</b> Std-1-10-20-30-40-50	
1	Cam Set	78-72	<b>1453M</b> Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	78-72	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	78-72	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	78-72	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter
1	Pump Repair Kit	78-72	<b>224-5174</b>	
1	Inter. Shaft	78-72	<b>224-6174</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	78-72	<b>260-1001</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	78-72	<b>260-4011</b>	
1	Valley Pan Gasket Set	78-72	<b>260-4034</b>	Premium Set; Performance manifold gskts. incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	78-72	<b>381-8011</b>	
1	Steel Block Plug Kit	78-72	<b>381-4031</b>	

<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
YEARS	DESCRIPTION	RE-RING			
78-72	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-642</b>	<b>205-142</b>
<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
YEARS	DESCRIPTION				
78-75	VIN Codes "N" & "P"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; w/3.453" max. brg. flange OD; Incl. rlr. type chain	Master w/o Pistons		<b>MK-642E</b>	<b>MK-142E</b>
76-75	VIN Code "M"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master Master w/o Pistons		<b>MKP-642A</b> <b>MK-642A</b>	<b>MKP-142A</b> <b>MK-142A</b>
74	VIN Codes "N" & "P"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master w/o Pistons		<b>MK-642D</b>	<b>MK-142D</b>
74-72	VIN Code "M"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master Master w/o Pistons		<b>MKP-642A</b> <b>MK-642A</b>	<b>MKP-142A</b> <b>MK-142A</b>
73-72	VIN Code "P"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master w/o Pistons		<b>MK-642D</b>	<b>MK-142D</b>

**56 6.7L 413 OHV V8, 4.1875" Bore 1965-59**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	65-59	<b>KT3-495S</b>	Exc. Hi-Perf.; Exc. Eng. w/Ram manifold; Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291
1	3 Piece Set	65-59	<b>KT3-168S</b>	Hi-Perf.; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380
1	Timing Chain	65-59	<b>222-495</b>	Exc. Hi-Perf.; Silent type; 50 Links
1	Timing Chain	65-59	<b>222-168</b>	Hi-Perf.; Double rlr.; 66 Links

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

6.7L 413 OHV V8, 4.1875" Bore 1965-59 **56**

(cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket	65-59	<b>223-291</b>	Exc. Hi-Perf.; Use w/silent type chain; 19 Teeth
1	Crank Sprocket	65-59	<b>223-339</b>	Hi-Perf.; Double row; 25 Teeth
1	Cam Sprocket	65-59	<b>223-290</b>	Exc. Hi-Perf.; Exc. Eng. w/Ram manifold; Use w/silent type chain; 38 Teeth
1	Cam Sprocket	65-59	<b>223-380</b>	Hi-Perf.; Double row; 50 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	65-59	<b>CS-327</b>	
16	Lifter	65-59	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	65-59	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	65-59	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	65-59	<b>KC-327A</b>	Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	65-59	<b>RP-3034</b>	9.3750" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	65-59	<b>R-829</b>	L.H.
16	Arm	65-59	<b>R-828</b>	R.H.
2	Rocker Shaft	65-59	<b>RS-612</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	65-64	<b>V-1339</b> Std Only	1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Exhaust	63	<b>V-1339</b> Std Only	300, Imperial, New Yorker, Newport, Town & Country; 1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Exhaust	62-59	<b>V-1339</b> Std Only	1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Intake	65-64	<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake	63	<b>V-1386</b> Std Only	Exc. Dodge & Plymouth; 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake	62-59	<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	65-59	<b>VG-5007</b>	Exh.; Repair type bushing; w/.371" stem dia.; .3725" ID, 2.3800" O.A.L.
8	Guide, Bulk	65-59	<b>VG-5007B</b>	Exh.; Repair type bushing; w/.371" stem dia.; Carton of 50; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	65-59	<b>VS-673</b>	2.5800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	65-59	<b>ST-2002</b>	Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	65-59	<b>MV-1707C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	65-59	<b>ST-2002BC</b>	Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	65-59	<b>MV-1707</b>	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	65-64	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	65-64	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	65-64	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	63	<b>245-1750-2N</b> Std Only	300, Imperial, New Yorker, Newport, Town & Country; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	63	<b>245-1750-2</b> Std Only	300, Imperial, New Yorker, Newport, Town & Country; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	63	<b>245-2000-1</b> Std Only	Dodge & Plymouth; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	63	<b>245-2250-1</b> Std Only	300, Imperial, New Yorker, Newport, Town & Country; 2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	62-59	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	62-59	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	62-59	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	65-64	<b>VK-174</b>	Exh.; 4 groove
16	Keeper	65-64	<b>VK-174R</b>	Exh.; 4 groove; Hardened
16	Keeper	65-64	<b>VK-66</b>	Int.; 2 groove
16	Keeper	65-64	<b>VK-66R</b>	Int.; 2 groove; Hardened
16	Keeper	63	<b>VK-138</b>	Exh. & Int.; Dodge & Plymouth; 1 groove; Square cut key groove
16	Keeper	63	<b>VK-138R</b>	Exh. & Int.; Dodge & Plymouth; 1 groove; Square cut key groove; Hardened
16	Keeper	63-59	<b>VK-174</b>	Exh.; Chrysler; 4 groove
16	Keeper	63-59	<b>VK-174R</b>	Exh.; Chrysler; 4 groove; Hardened
16	Keeper	63-59	<b>VK-66</b>	Int.; Chrysler; 2 groove
16	Keeper	63-59	<b>VK-66R</b>	Int.; Chrysler; 2 groove; Hardened

VALVE TRAIN

VALVE TRAIN

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**56** 6.7L 413 OHV V8, 4.1875" Bore 1965-59  
(cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Keeper, Bulk	63	VK-138B	Exh. & Int.; Dodge & Plymouth; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	65-59	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	65-59	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	65-59	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	65-59	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	65-59	259-103ARS	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	65-59	238P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 2.000" CD, 1.0939" Pin Dia., Flat Head - 9.7:1 C.R.
8	Cast Piston - Individual	65-59	W238P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 2.000" CD, 1.0939" Pin Dia., Flat Head - 9.7:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Standard Set	65-59	E-287X Std-30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	65-59	WE-287X Std-30	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	65-59	4924MA Std-10-20-30	<b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD
1	Rod Set	65-59	8-2320CP Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	65-59	8-2320CA60 60	Unplated & resizeable
8	Rod Pair	65-59	2320CP Std-1-10-20-30-40-50	
1	Cam Set	65-59	1453M Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	65-59	224-43366A	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	65-59	224-4174V	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	65-59	224-4174	Use original cover plate on Eng. w/canister oil filter
1	Pump Repair Kit	65-59	224-5174	
1	Inter. Shaft	65-59	224-6174	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	65-63	260-1001	w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	65-59	260-4019	
1	Valley Pan Gasket Set	65-59	260-4035	Premium Set; Performance manifold gskts. incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	65-59	381-8011	
1	Steel Block Plug Kit	65-59	381-4031	

**57** 7.0L 426 OHV V8, 4.25" Bore 1971-63  
VIN Codes "H" 1966, "J" 1967-70, "R" 1967 & 1970-71

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	71-66	KT3-168SA	w/3 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-340A
1	3 Piece Set	65-63	KT3-168S	Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380
1	3 Piece Set	65-63	KT3-495S	Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291
1	Timing Chain	71-66	222-168	Double rlr.; 66 Links
1	Timing Chain	65-63	222-168	Double rlr.; 66 Links
1	Timing Chain	65-63	222-495	Silent type; 50 Links
1	Crank Sprocket	71-66	223-339	Double row; 25 Teeth
1	Crank Sprocket	65-63	223-339	Double row; 25 Teeth
1	Crank Sprocket	65-63	223-291	Use w/silent type chain; 19 Teeth
1	Cam Sprocket	71-66	223-340A	w/3 bolt cam sprocket mounting; Double row; 50 Teeth
1	Cam Sprocket	65-63	223-380	Double row; 50 Teeth
1	Cam Sprocket	65-63	223-290	Use w/silent type chain; 38 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	66-64	CS-327	Exc. Hemi Eng.
16	Lifter	71-70	HT-2011R Std Only	Exc. Hemi Eng.; Hyd. Hi-Rev
16	Lifter	66	AT-2084 Std Only	Exc. Hemi Eng.; Dumbbell shaped mech.
16	Lifter	65-63	AT-2084 Std Only	Exc. Hemi Eng.; Dumbbell shaped mech.
16	Lifter	65-63	HT-812 Std Only	Exc. Hemi Eng.; Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	66	AT-2084B Std Only	Exc. Hemi Eng.; Dumbbell shaped mech.; Carton of 117
16	Lifter, Bulk	65-63	AT-2084B Std Only	Exc. Hemi Eng.; Dumbbell shaped mech.; Carton of 117
16	Lifter, Bulk	65-63	HT-812B Std Only	Exc. Hemi Eng.; Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	66-64	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

7.0L 426 OHV V8, 4.25" Bore 1971-63 **57**

VIN Codes "H" 1966, "J" 1967-70, "R" 1967 & 1970-71 (cont.)

QTY	PART NO.	YEARS	DESCRIPTION
1	<b>CAM KIT</b> Cam/Lifter Kit	65-64	<b>KC-327A</b> Exc. Hemi Eng.s.; Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B
16	<b>PUSH ROD</b> Push Rod	66-64	<b>RP-3034</b> Exc. Hemi Eng.s.; 9.3750" O.A.L.
8	<b>ROCKER PARTS</b> Arm	71-64	<b>R-829</b> L.H.; Exc. Hemi Eng.s.; Non-adj.
8	Arm	71-64	<b>R-828</b> R.H.; Exc. Hemi Eng.s.; Non-adj.
2	Rocker Shaft	71-64	<b>RS-612</b> Exc. Hemi Eng.s.; Stock replacement
8	<b>VALVE</b> Exhaust	66-65	<b>V-1339</b> Std Only 1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Exhaust	64	<b>V-1339</b> Std Only Exc. Max. Perf. Eng.s.; 1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Intake	66-64	<b>V-1386</b> Std Only 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
16	<b>VALVE GUIDE</b> Guide	71-66	<b>VG-5042</b> .3120" ID, 2.3800" O.A.L.
8	Guide	71-64	<b>VG-5007</b> Exh.; .3725" ID, 2.3800" O.A.L.
8	Guide	71-64	<b>VG-5007T</b> Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
8	Guide	65-64	<b>VG-5073</b> Int.; .3745" ID, 2.3750" O.A.L.
8	Guide, Bulk	71-64	<b>VG-5007B</b> Exh.; Carton of 50; .3725" ID, 2.3800" O.A.L.
8	Guide, Bulk	71-64	<b>VG-5007TB</b> Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
16	<b>VALVE SPRING</b> Spring	71-70	<b>VS-701</b> Incl. damper; 2.1500" Free Height
16	Spring	66-64	<b>VS-673</b> 2.5800" Free Height
16	<b>VALVE SEAL</b> Valve Stem Seal	71-64	<b>ST-2002</b> Exc. Eng.s. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	65-63	<b>ST-2019R</b> Hi-Perf.; Positive type; Premium design; PTFE
16	Valve Stem Seal	66-64	<b>MV-1707C</b> Exh. & Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	71-64	<b>ST-2002BC</b> Exc. Eng.s. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	66-64	<b>MV-1707</b> Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	65-63	<b>ST-2019RBC</b> Hi-Perf.; Positive type; Premium design; Carton of 100; PTFE
16	<b>VALVE, MISC</b> Keeper	71-66	<b>VK-144</b> Exh. & Int.; 1 groove; Square cut key groove
16	Keeper	71-66	<b>VK-144R</b> Exh. & Int.; 1 groove; Square cut key groove; Hardened
16	Keeper	66-64	<b>VK-66</b> Int.; 2 groove
16	Keeper	66-64	<b>VK-66R</b> Int.; 2 groove; Hardened
16	Keeper	65-64	<b>VK-174</b> Exh.; 4 groove
16	Keeper	65-64	<b>VK-174R</b> Exh.; 4 groove; Hardened
16	Keeper	64	<b>VK-138</b> Max. Perf. Eng.s.; 1 groove; Square cut key groove
16	Keeper	64	<b>VK-138R</b> Max. Perf. Eng.s.; 1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	71-66	<b>VK-144B</b> Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	64	<b>VK-138B</b> Max. Perf. Eng.s.; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	71-64	<b>259-103C</b> .015"; ID 1.030"; Carton of 100
16	Spring Insert	71-64	<b>259-103B</b> .030"; ID 1.030"; Carton of 100
16	Spring Insert	71-64	<b>259-103BRS</b> .030"; ID 1.030"; Carton of 500
16	Spring Insert	71-64	<b>259-103A</b> .060"; ID 1.030"; Carton of 100
16	Spring Insert	71-64	<b>259-103ARS</b> .060"; ID 1.030"; Carton of 500
1	<b>RINGS</b> Premium Set	71-63	<b>E-233K</b> Std-20-30-40-60 2-5/64, 1-3/16
1	Standard Set	71-63	<b>E-233X</b> Std-20-30-40-60 2-5/64, 1-3/16
8	Premium Single Cylinder Set	71-63	<b>WE-233K</b> Std-20-30-40-60 2-5/64, 1-3/16
8	Standard Single Cylinder Set	71-63	<b>WE-233X</b> Std-20-30-40-60 2-5/64, 1-3/16
8	<b>SLEEVE</b> Repair Sleeve	71-64	<b>SL-24Y</b> Std Only 1/8" wall, must be cut to correct length
8	Repair Sleeve	71-64	<b>SL-24M</b> Std Only 3/32" wall, must be cut to correct length
1	<b>ENGINE BEARINGS</b> Main Set	71-63	<b>4924MA</b> Std-10-20-30 <b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD
1	Rod Set	71-63	<b>8-2320CP</b> Std-10-20-30-40-50 8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	71-63	<b>8-2320CA60</b> 60 Unplated & resizeable
8	Rod Pair	71-63	<b>2320CP</b> Std-1-10-20-30-40-50
1	Cam Set	71-63	<b>1453M</b> Std Only Babbitt material; Full round design

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

## 57 7.0L 426 OHV V8, 4.25" Bore 1971-63

(cont.) VIN Codes "H" 1966, "J" 1967-70, "R" 1967 & 1970-71

	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
BLOCK	1	Oil Pump	71-63	224-4174	Exc. Hemi Eng's.; Use original cover plate on Eng's. w/canister oil filter	
	1	Oil Pump	71-63	224-43366A	High Pressure; Use original cover plate on Eng's. with canister oil filter	
	1	Oil Pump	71-63	224-4174V	High-Volume; Use original cover plate on Eng's. w/canister oil filter	
	1	Pump Repair Kit	71-63	224-5174		
	1	Inter. Shaft	71-63	224-6174		
	QTY		GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Valley Pan Gasket Set	65-64	260-4019	Exc. Hemi Eng's.	
	1	Valley Pan Gasket Set	65-64	260-4035	Exc. Hemi Eng's.; Premium Set; Performance manifold gskts. incl.	
	QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	71-63	381-8011		
1	Steel Block Plug Kit	71-63	381-4031			

## 58 7.2L 440 OHV V8, 4.32" Bore 1978-66

VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	1	3 Piece Set	78-73	KT3-501S	Exc. VIN Code "U"; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	3 Piece Set	78-73	KT3-168S	VIN Code "U"; w/1 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380	
	1	3 Piece Set	78-73	KT3-168SA	VIN Code "U"; w/3 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-340A	
	1	3 Piece Set	72-70	KT3-501S	Exc. VIN Codes "U" & "V"; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	3 Piece Set	72-70	KT3-168S	VIN Codes "U" & "V"; w/1 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380	
	1	3 Piece Set	72-70	KT3-168SA	VIN Codes "U" & "V"; w/3 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-340A	
	1	3 Piece Set	69	KT3-501S	Exc. VIN Code "M"; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	3 Piece Set	69	KT3-168S	VIN Code "M"; w/1 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-380	
	1	3 Piece Set	69	KT3-168SA	VIN Code "M"; w/3 bolt cam sprocket mounting; Incl. rlr. type chain; Incl. (1) 222-168, (1) 223-339, (1) 223-340A	
	1	3 Piece Set	68-66	KT3-501S	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367	
	1	Timing Chain	78-75	222-501	Exc. VIN Code "U"; Silent type; 50 Links	
	1	Timing Chain	78-75	222-168	VIN Code "U"; Double rlr.; 66 Links	
	1	Timing Chain	74-73	222-501	Exc. VIN Code "U"; Silent type; 50 Links	
	1	Timing Chain	74-73	222-168	VIN Code "U"; Double rlr.; 66 Links	
	1	Timing Chain	72-70	222-501	Exc. VIN Codes "U" & "V"; Silent type; 50 Links	
	1	Timing Chain	72-70	222-168	VIN Codes "U" & "V"; Double rlr.; 66 Links	
	1	Timing Chain	69	222-501	Exc. VIN Code "M"; Silent type; 50 Links	
	1	Timing Chain	69	222-168	VIN Code "M"; Double rlr.; 66 Links	
	1	Timing Chain	68-66	222-501	Silent type; 50 Links	
	1	Crank Sprocket	78-75	223-339	VIN Code "U"; Double row; 25 Teeth	
	1	Crank Sprocket	74-73	223-339	VIN Code "U"; Double row; 25 Teeth	
	1	Crank Sprocket	72-70	223-339	VIN Codes "U" & "V"; Double row; 25 Teeth	
	1	Crank Sprocket	69	223-339	VIN Code "M"; Double row; 25 Teeth	
	1	Cam Sprocket	78-75	223-380	VIN Code "U"; w/1 bolt cam sprocket mounting; Double row; 50 Teeth	
	1	Cam Sprocket	74-73	223-380	VIN Code "U"; w/1 bolt cam sprocket mounting; Double row; 50 Teeth	
	1	Cam Sprocket	72-70	223-340A	VIN Code "V"; w/3 bolt cam sprocket mounting; Double row; 50 Teeth	
	1	Cam Sprocket	72-70	223-380	VIN Codes "U" & "V"; w/1 bolt cam sprocket mounting; Double row; 50 Teeth	
	1	Cam Sprocket	69	223-340A	VIN code "M"; w/3 bolt cam sprocket mounting; Double row; 50 Teeth	
	QTY		CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	78-73	CS-327	Exc. VIN Code "U"	
1	Camshaft	78-72	CS-661	VIN Code "U"		
1	Camshaft	72-70	CS-327	Exc. VIN Codes "U" & "V"		
1	Camshaft	69	CS-327	Exc. VIN Code "M"		
1	Camshaft	68-66	CS-327			

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

7.2L 440 OHV V8, 4.32" Bore 1978-66 **58**

VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72 (cont.)

	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	(cont.)			
16	Lifter	78-73	<b>HT-976</b> Std Only	Hyd.
16	Lifter	72-70	<b>HT-976</b> Std Only	Exc. VIN Code "V"; Hyd.
16	Lifter	72-70	<b>HT-2011R</b> Std Only	VIN Code "V"; Hyd. Hi-Rev
16	Lifter	69-68	<b>HT-976</b> Std Only	Hyd.
16	Lifter	67-66	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	78-73	<b>HT-976B</b> Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	72-70	<b>HT-976B</b> Std Only	Exc. VIN Code "V"; Hyd.; Carton of 117
16	Lifter, Bulk	69-68	<b>HT-976B</b> Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	67-66	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
1	Prelube	78-66	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	78-73	<b>KC-327</b>	Exc. VIN Code "U"; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	78-73	<b>KC-661</b>	VIN Code "U"; Hyd.; Incl. (1) CS-661, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	72	<b>KC-661</b>	VIN Code "U"; Hyd.; Incl. (1) CS-661, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	72-70	<b>KC-327</b>	Exc. VIN Codes "U" & "V"; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	69	<b>KC-327</b>	Exc. VIN Code "M"; Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	68	<b>KC-327</b>	Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter Kit	67-66	<b>KC-327A</b>	Hyd.; Incl. (1) CS-327, (16) HT-812, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-73	<b>KCT-327</b>	Exc. VIN Code "U"; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	<b>KCT-327</b>	Exc. VIN Codes "U" & "V"; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	69	<b>KCT-327</b>	Exc. VIN Code "M"; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68	<b>KCT-327</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	78-68	<b>RP-3221R</b>	w/o oil hole; Chrome-Moly; 9.2950" O.A.L.
16	Push Rod	78-68	<b>RP-3193</b>	9.3150" O.A.L.
16	Push Rod	67-66	<b>RP-3034</b>	9.3750" O.A.L.
16	Push Rod, Bulk	78-68	<b>BRP-3193</b>	Carton of 100; 9.3150" O.A.L.
	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm	78-66	<b>R-829</b>	L.H.
8	Arm	78-66	<b>R-828</b>	R.H.
2	Rocker Shaft	78-66	<b>RS-612</b>	
	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	78-68	<b>V-1900</b> Std Only	4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.
8	Exhaust	67-66	<b>V-1339</b> Std Only	1.5980" Head Dia., .3715" Stem Dia., 4.8900" O.A.L.
8	Intake	78-73	<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake	72-70	<b>V-1386</b> Std Only	Exc. VIN Code "V"; 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake	69-66	<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	78-66	<b>VG-5073</b>	Exh. & Int.; .3745" ID, 2.3750" O.A.L.
16	Guide	78-66	<b>VG-5088</b>	Exh. & Int.; Bronze; .3735" ID, 2.6250" O.A.L.
	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	78-73	<b>VS-675</b>	VIN Code "U"; Incl. damper; 2.2300" Free Height
16	Spring	72-70	<b>VS-675</b>	VIN Code "U"; Incl. damper; 2.2300" Free Height
16	Spring	72-70	<b>VS-701</b>	VIN Code "V"; Incl. damper; 2.1500" Free Height
16	Spring	69-66	<b>VS-673</b>	2.5800" Free Height
	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	78-73	<b>ST-2048</b>	Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	78-66	<b>ST-2002</b>	Exh. & Int.; Exc. Engs. w/double valve springs; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	78-66	<b>ST-2014</b>	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
8	Valve Stem Seal	78-76	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	75-73	<b>MV-1707C</b>	Exh.; Umbrella type; Polyacrylate
16	Valve Stem Seal	72-66	<b>MV-1707C</b>	Exh. & Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	78-66	<b>ST-2002BC</b>	Exh. & Int.; Exc. Engs. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate

VALVE TRAIN

VALVE TRAIN

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**58 7.2L 440 OHV V8, 4.32" Bore 1978-66**  
 (cont.) VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72

	QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	16	Valve Stem Seal Bulk	78-66	<b>ST-2014BC</b>	Exh. & Int.; Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
	8	Valve Stem Seal Bulk	75-73	<b>MV-1707</b>	Exh.; Umbrella type; Carton of 100; Polyacrylate
	16	Valve Stem Seal Bulk	72-66	<b>MV-1707</b>	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
	8	Exh.	78-68	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
	8	Exh.	78-68	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
	8	Int.	78-66	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
	8	Exh.	67-66	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
	8	Exh.	67-66	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
	16	Keeper	78-73	<b>VK-66</b>	Int.; 2 groove
	16	Keeper	78-73	<b>VK-66R</b>	Int.; 2 groove; Hardened
	16	Keeper	78-66	<b>VK-174</b>	Exh.; 4 groove
	16	Keeper	78-66	<b>VK-174R</b>	Exh.; 4 groove; Hardened
	16	Keeper	72-70	<b>VK-66</b>	Int.; Exc. VIN Code "V"; 2 groove
	16	Keeper	72-70	<b>VK-66R</b>	Int.; Exc. VIN Code "V"; 2 groove; Hardened
	16	Keeper	72-70	<b>VK-138</b>	Int.; VIN Code "V"; 1 groove; Square cut key groove
	16	Keeper	72-70	<b>VK-138R</b>	Int.; VIN Code "V"; 1 groove; Square cut key groove; Hardened
16	Keeper	69-66	<b>VK-66</b>	Int.; 2 groove	
16	Keeper	69-66	<b>VK-66R</b>	Int.; 2 groove; Hardened	
16	Keeper, Bulk	72-70	<b>VK-138B</b>	Int.; VIN Code "V"; 1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	78-66	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100	
16	Spring Insert	78-66	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100	
16	Spring Insert	78-66	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500	
16	Spring Insert	78-66	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100	
16	Spring Insert	78-66	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500	
BLOCK	8	Cast Piston	78-73	<b>424NP</b> Std-20-30-40-60	Exc. VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston	78-73	<b>424P</b> Std-20-30-40-60	Exc. VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston	72	<b>424NP</b> Std-20-30-40-60	Exc. VIN Codes "U" & "V"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston	72	<b>424P</b> Std-20-30-40-60	Exc. VIN Codes "U" & "V"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston	71-70	<b>350NP30</b> 30-40-60	VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head
	8	Cast Piston	71-70	<b>350P30 +</b> 30-40-60	VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use 350NP 30
	8	Cast Piston	69	<b>350NP30</b> 30-40-60	Exc. VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head
	8	Cast Piston	69	<b>350P30 +</b> 30-40-60	Exc. VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use 350NP 30
	8	Cast Piston	68-66	<b>350NP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head
	8	Cast Piston	68-66	<b>350P30 +</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use 350NP 30
	8	Cast Piston - Individual	78-73	<b>W424NP *</b> Std-30	Exc. VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston - Individual	78-73	<b>W424P</b> Std-30	Exc. VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston - Individual	72	<b>W424NP *</b> Std-30	Exc. VIN Codes "U" & "V"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston - Individual	72	<b>W424P</b> Std-30	Exc. VIN Codes "U" & "V"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
	8	Cast Piston - Individual	71-70	<b>W350NP30</b> 30-40	VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head
	8	Cast Piston - Individual	71-70	<b>W350P30 +</b> 30-40	VIN Code "U"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use W350NP 30
	8	Cast Piston - Individual	69	<b>W350NP30</b> 30-40	Exc. VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**7.2L 440 OHV V8, 4.32" Bore 1978-66 58**

VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	69	<b>W350P30</b> + 30-40	Exc. VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use W350NP 30
8	Cast Piston - Individual	68-66	<b>W350NP30</b> 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head
8	Cast Piston - Individual	68-66	<b>W350P30</b> + 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.990" CD, 1.0939" Pin Dia., Flat Head; When depleted use W350NP 30
8	Powerforged	72-70	<b>L-2355F</b> Std-30-40-60	VIN Code "V"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 2.061" CD, 1.0939" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71	<b>L-2266F</b> Std-30-40-60	VIN Code "U"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70	<b>L-2266F</b> Std-30-40-60	VIN Code "T"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	67-66	<b>L-2266F</b> Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-70	<b>WL-2355F</b> Std-30-40-60	VIN Code "V"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 2.061" CD, 1.0939" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71	<b>WL-2266F</b> Std-30-40-60	VIN Code "U"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70	<b>WL-2266F</b> Std-30-40-60	VIN Code "T"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	67-66	<b>WL-2266F</b> Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.991" CD, 1.0939" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Pin	78-66	<b>P-1940</b> Std-3	
<b>B L O C K</b>				
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	78-66	<b>E-424K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	78-66	<b>E-424X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	78-66	<b>WE-424K</b> Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	78-66	<b>WE-424X</b> Std-30-40-60	2-5/64, 1-3/16
<b>B L O C K</b>				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	78-74	<b>5025MA</b> Std-10-20-30	<b>A-Series aluminum bearings;</b> Partial grooved; 3.930" max. flange OD
1	Main Set	74-66	<b>4924MA</b> Std-10-20-30	<b>A-Series aluminum bearings;</b> Partial grooved; 3.624" max. flange OD
1	Rod Set	78-66	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	78-66	<b>8-2320CA60</b> 60	Unplated & resizeable
8	Rod Pair	78-66	<b>2320CP</b> Std-1-10-20-30-40-50	
1	Cam Set	78-66	<b>1453M</b> Std Only	Babbitt material; Full round design
<b>B L O C K</b>				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	78-73	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	78-73	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	78-73	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	72-70	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	72-70	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	72-70	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	69-66	<b>224-43366A</b>	High Pressure; Use original cover plate on Eng. with canister oil filter
1	Oil Pump	69-66	<b>224-4174V</b>	High-Volume; Use original cover plate on Eng. w/canister oil filter
1	Oil Pump	69-66	<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter
1	Pump Repair Kit	78-73	<b>224-5174</b>	
1	Pump Repair Kit	72-70	<b>224-5174</b>	
1	Pump Repair Kit	69-66	<b>224-5174</b>	
1	Inter. Shaft	78-73	<b>224-6174</b>	
1	Inter. Shaft	72-70	<b>224-6174</b>	
1	Inter. Shaft	69-66	<b>224-6174</b>	
1	Screen Assy.	70-67	<b>224-15055</b>	Exc. VIN Code "U"
<b>B L O C K</b>				
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	78-66	<b>260-1001</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	78-66	<b>260-4019</b>	

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

**58 7.2L 440 OHV V8, 4.32" Bore 1978-66**

(cont.) VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72

QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Valley Pan Gasket Set	78-66	260-4035	Premium Set; Performance manifold gskts. incl.		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	78-66	381-8011			
1	Steel Block Plug Kit	78-66	381-4031			
RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION					
78-74	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.			Re-ring w/Mains	205-632AM	205-132AM
78-74	Int. manifold gskt. not incl.; Premium valve stem seals incl.			Re-ring	205-632A	205-132A
74-66	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.			Re-ring w/Mains	205-632M	205-132M
73-66	Int. manifold gskt. not incl.; Premium valve stem seals incl.			Re-ring	205-632A	205-132A
OVERHAUL KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION					
78-77	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain			Master Master w/o Pistons	MKP-632E MK-632E	MKP-132E MK-132E
78-77	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain; Use original cover plate on Eng. w/canister oil filter			Master w/o Rods & Mains	505-632G	505-132G
78-77	VIN Code "U"; w/1 bolt cam sprocket mounting; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. rlr. type chain			Master w/o Pistons	MK-632H	MK-132H
76-74	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain			Master Master w/o Pistons	MKP-632E MK-632E	MKP-132E MK-132E
76-74	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain; Use original cover plate on Eng. w/canister oil filter			Master w/o Rods & Mains	505-632G	505-132G
76-74	VIN Code "U"; w/1 bolt cam sprocket mounting; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. rlr. type chain			Master w/o Pistons	MK-632H	MK-132H
74	VIN Code "U"; w/1 bolt cam sprocket mounting; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. rlr. type chain			Master w/o Pistons	MK-632F	MK-132F
74	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain			Master Master w/o Pistons	MKP-632G MK-632G	MKP-132G MK-132G
73	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain			Master Master w/o Pistons	MKP-632G MK-632G	MKP-132G MK-132G
73	Exc. VIN Code "U"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain; Use original cover plate on Eng. w/canister oil filter			Master w/o Rods & Mains	505-632G	505-132G

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# Chrysler Car (Incl. Chrysler, Dodge, Eagle & Plymouth)

7.2L 440 OHV V8, 4.32" Bore 1978-66 **58**

VIN Codes "K" 1966-69, "L" 1966-69, "M" 1969, "T" 1970-78, "U" 1970-78, "V" 1970-72 (cont.)

	<b>OVERHAUL KIT (cont.)</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
73-72	VIN Code "U"; w/1 bolt cam sprocket mounting; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. rlr. type chain	Master w/o Pistons	<b>MK-632F</b>	<b>MK-132F</b>	
72	Exc. VIN Codes "U" & "V"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain	Master	<b>MKP-632G</b>	<b>MKP-132G</b>	
72	Exc. VIN Codes "U" & "V"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain; Use original cover plate on Eng. w/canister oil filter	Master w/o Rods & Mains	<b>505-632G</b>	<b>505-132G</b>	
72-70	Exc. VIN Codes "U" & "V"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain	Master w/o Pistons	<b>MK-632G</b>	<b>MK-132G</b>	
69	Exc. VIN Code "M"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain	Master w/o Pistons	<b>MK-632G</b>	<b>MK-132G</b>	
68	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain	Master w/o Pistons	<b>MK-632G</b>	<b>MK-132G</b>	
67-66	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.624" max. brg. flange OD; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain	Master w/o Pistons	<b>MK-632A</b>	<b>MK-132A</b>	

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## Chrysler Marine

<b>Engine Finding Index</b>					
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3.0L 182 (2980cc) OHV L6 89mm Bore (12 Valve) (Volvo Eng.)		3	5.2L 318 OHV V8 3.9063" Bore		12
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# Chrysler Marine

Engine Code Index					
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Applications.....	2.0L 121.2 (1986cc) OHV L4 89mm Bore (8 Valve) (Volvo Eng.).....	1	165HP...Marine		
115...Marine			Applications.....	3.0L 182 (2980cc) OHV L6 89mm Bore (12 Valve) (Volvo Eng.).....	3
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# Chrysler Marine

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Ace M46...Marine Applications.....	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth).....	4	Super Bee II...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
Ace Special M46S...Marine Applications.....	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth).....	4	Super Bee III...Marine Applications.....	5.6L 340 OHV V8 4.04" Bore .....	14
Chrysler III...Marine Applications.....	5.6L 340 OHV V8 4.04" Bore .....	14	Super Bee III (Volvo)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
Chrysler Jet...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15	Super Bee III V-Drive...Marine Applications.....	5.6L 340 OHV V8 4.04" Bore .....	14
Crown M47...Marine Applications.....	3.9L 236.6 L-HEAD L6 3.4375" Bore (DeSoto).....	7	Super Bee III V-Drive...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
Crown Special M47S...Marine Applications.....	3.9L 236.6 L-HEAD L6 3.4375" Bore (DeSoto).....	7	Super Bee V-Drive...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
Jet II...Marine Applications .....	5.2L 318 OHV V8 3.9063" Bore ...	12	155 HP...Marine Applications.....	3.7L 225 OHV L6 3.4063" Bore.....	5
Jet III...Marine Applications .....	5.6L 340 OHV V8 4.04" Bore .....	14	175...Marine Applications .....	4.5L 273 OHV V8 3.625" Bore .....	11
M-426-B...Marine Applications.....	7.0L 426 OHV V8 4.25" Bore .....	20	195 (195 HP)...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
M-426-D...Marine Applications.....	7.0L 426 OHV V8 4.25" Bore .....	20	195 Special (195 HP)...Marine Applications .....	5.2L 318 OHV V8 3.9063" Bore ...	12
MA7-3...Marine Applications.....	4.3L 265 L-HEAD L6 3.4375" Bore (Chrysler).....	9	195 Stern Drive (195 HP)...Marine Applications .....	5.2L 318 OHV V8 3.9063" Bore ...	12
M26...Marine Applications .....	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth).....	4	200...Marine Applications .....	4.5L 273 OHV V8 3.625" Bore .....	11
M27...Marine Applications .....	4.1L 251 L-HEAD L6 3.4375" Bore (Chrysler).....	8	210 (210 HP)...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
M36...Marine Applications .....	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth).....	4	215 (215 HP)...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
M37 Crown...Marine Applications.....	4.1L 251 L-HEAD L6 3.4375" Bore (Chrysler).....	8	225 (225 HP)...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
M383...Marine Applications .....	6.3L 383 OHV V8 4.25" Bore .....	17	230 (230 HP)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
M383B...Marine Applications.....	6.3L 383 OHV V8 4.25" Bore .....	17	240 (240 HP)...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12
M45...Marine Applications .....	5.4L 331 OHV V8 3.8125" Bore (Chrysler).....	13	240 (240 HP)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
M45S...Marine Applications.....	5.4L 331 OHV V8 3.8125" Bore (Chrysler).....	13	240 Stern Drive (240 HP)...Marine Applications .....	5.2L 318 OHV V8 3.9063" Bore ...	12
M45SP...Marine Applications.....	5.4L 331 OHV V8 3.8125" Bore (Chrysler).....	13	250 (250 HP)...Marine Applications.....	5.6L 340 OHV V8 4.04" Bore .....	14
M47-4...Marine Applications.....	4.3L 265 L-HEAD L6 3.4375" Bore (Chrysler).....	9	250 (250 HP)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
M6...Marine Applications .....	3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth).....	4	260...Marine Applications .....	6.3L 383 OHV V8 4.25" Bore .....	17
M7...Marine Applications .....	4.1L 251 L-HEAD L6 3.4375" Bore (Chrysler).....	8	265 (265 HP)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
M80...Marine Applications .....	5.2L 318 OHV V8 3.9063" Bore ...	12	275 (275 HP)...Marine Applications.....	5.9L 360 OHV V8 4" Bore .....	15
M80A...Marine Applications.....	5.2L 318 OHV V8 3.9063" Bore ...	12	280...Marine Applications .....	6.3L 383 OHV V8 4.25" Bore .....	17
M81 Imperial...Marine Applications.....	5.9L 361 OHV V8 4.125" Bore .....	16	280...Marine Applications .....	6.6L 400 OHV V8 4.342" Bore .....	18
Royal M44S...Marine Applications.....	4.4L 270 OHV V8 3.625" Bore (Dodge/Plymouth).....	10	300 (300 HP)...Marine Applications.....	7.2L 440 OHV V8 4.32" Bore .....	21
Super Bee...Marine Applications.....	4.5L 273 OHV V8 3.625" Bore .....	11	330 (330 HP)...Marine Applications.....	7.2L 440 OHV V8 4.32" Bore .....	21
			335 (335 HP)...Marine Applications.....	7.2L 440 OHV V8 4.32" Bore .....	21
			375 (375 HP)...Marine Applications.....	7.2L 440 OHV V8 4.32" Bore .....	21

2.0L 121.2 (1986cc) OHV L4 (8 Valve), 89mm Bore (Volvo Eng.) <b>1</b>				
Marine Applications Eng. Codes "M122D", "M122DT", "115", "130"				
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		VS-855	1.8100" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-204	3 groove; w/.3125 Stem Dia.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		6111M	Std Only

# Chrysler Marine

<b>2 2.8L 170 OHV L6, 3.4063" Bore Marine Applications</b>				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4092M Std-10-20-30	
1	Rod Set		6-2375CP Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable
6	Rod Pair		2375CP Std-10-20-30-40	
1	Cam Set		1454M Std Only	
<b>3 3.0L 182 (2980cc) OHV L6 (12 Valve), 89mm Bore (Volvo Eng.) Marine Applications Eng. Codes "165", "170"</b>				
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring		VS-855	1.8100" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-204	3 groove; w/.3125 Stem Dia.
<b>4 3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.25" Bore Marine Applications M6, M26, M36, Ace M46, Ace Special M46S</b>				
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust		V-1351 Std Only	1.4070" Head Dia., .3405" Stem Dia., 4.8410" O.A.L.
6	Intake		V-1086 Std Only	1.5310" Head Dia., .3405" Stem Dia., 4.8450" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide		VG-419	Exh.; Install taper end down; .3445" ID, 2.8130" O.A.L.
6	Guide		VG-420	Int.; Install taper end down; .3425" ID, 2.8130" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring		VS-304	M6, M26 & M36 Engs.; 2.0000" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Int.		245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
6	Int.		245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-63	2 groove; Round key groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston		37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Cast Piston - Individual		W37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Pin Bushing		8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing		8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing		8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing		8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-108KC Std-30-60	2-3/32, 2-5/32
1	Standard Set		E-108X Std-30-40-60	2-3/32, 2-5/32
6	Standard Single Cylinder Set		WE-108X Std-30	2-3/32, 2-5/32
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve		SL-123M Std Only	3/32" wall, cut to length; Press fit sleeve
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		415M Std-10-20-30-40	
1	Rod Set		6-9185CP Std-10-20-30-40	
6	Rod Pair		9185CP Std-10-20-30-40	
1	Cam Set		1010M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4165C	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump
<b>5 3.7L 225 OHV L6, 3.4063" Bore Marine Applications 155HP</b>				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-495S	From Ser. No. 169355; Incl. silent type chain; Incl. (1) 222-495, (1) 223-290, (1) 223-291
1	Timing Chain		222-495	From Ser. No. 169355; Silent type; 50 Links
1	Timing Chain		222-168	To Ser. No. 169354; Double rlr.; 66 Links
1	Crank Sprocket		223-291	From Ser. No. 169355; Use w/silent type chain; 19 Teeth
1	Crank Sprocket		223-339	To Ser. No. 169354; Double row; 25 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter		AT-937 Std Only	Barrel shaped mech.
12	Lifter, Bulk		AT-937B Std Only	Barrel shaped mech.; Carton of 117
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod		RP-3036	9.9540" O.A.L.

(continued on next page)

# Chrysler Marine

**3.7L 225 OHV L6, 3.4063" Bore 5**  
**Marine Applications 155HP (cont.)**

		QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
<b>V A L V E  T R A I N</b>		12	Push Rod, Bulk		<b>BRP-3036</b>	Carton of 100; 9.9540" O.A.L.
		6	Exhaust		<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
		6	Exhaust, Bulk		<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
		6	Intake		<b>V-1434</b> Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
		6	Valve Stem Seal		<b>MV-1918</b>	Exh.; Umbrella type; Viton®
		6	Valve Stem Seal		<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
		6	Valve Stem Seal Bulk		<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
		12	Keeper		<b>VK-174</b>	Exh.; 4 groove
		12	Keeper		<b>VK-174R</b>	Exh.; 4 groove; Hardened
		12	Keeper		<b>VK-66</b>	Int.; 2 groove
		12	Keeper		<b>VK-66R</b>	Int.; 2 groove; Hardened
	<b>B L O C K</b>		6	Cast Piston		<b>244NP</b> Std-20-30-40-60-80
		6	Cast Piston - Individual		<b>W244NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
		6	Pin Bushing		<b>2134Y</b>	
		1	Premium Set		<b>E-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
		1	Standard Set		<b>E-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
		6	Premium Single Cylinder Set		<b>WE-196K</b> Std-20-30-40-60	2-5/64, 1-3/16
		6	Standard Single Cylinder Set		<b>WE-196X</b> Std-20-30-40-60	2-5/64, 1-3/16
		1	Main Set		<b>5070M</b> Std-10-20-30-40	
		1	Main Set		<b>4092M</b> Std-10-20-30	w/Forged crankshaft
		1	Rod Set		<b>6-3695RA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
		1	Rod Set		<b>6-2375CP</b> Std-10-20-30-40	W/Forged crankshaft; 6-2375CA 60 avail. as unplated & resizeable
		6	Rod Pair		<b>3695RA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
	6	Rod Pair		<b>2375CP</b> Std-10-20-30-40	W/Forged crankshaft	
	1	Cam Set		<b>1454M</b> Std Only		
	1	Cam Set		<b>1473M</b> Std Only		
	1	Brass Block Plug Kit		<b>381-8012</b>		
<b>3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore 6</b> <b>Marine Applications</b>						
<b>B L O C K</b>		6	Exhaust		<b>V-1351</b> Std Only	1.4070" Head Dia., .3405" Stem Dia., 4.8410" O.A.L.
		6	Intake		<b>V-1086</b> Std Only	1.5310" Head Dia., .3405" Stem Dia., 4.8450" O.A.L.
		6	Guide		<b>VG-419</b>	Exh.; Install taper end down; .3445" ID, 2.8130" O.A.L.
		6	Guide		<b>VG-420</b>	Int.; Install taper end down; .3425" ID, 2.8130" O.A.L.
		12	Spring		<b>VS-506</b>	Use w/Rotocaps; 1.8570" Free Height
		12	Spring		<b>VS-304</b>	2.0000" Free Height
		6	Cast Piston		<b>37P</b> Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
		6	Cast Piston - Individual		<b>W37P</b> Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
		6	Pin Bushing		<b>8649XAS</b>	Full round, thin wall .0055" O/S OD bushing
		6	Pin Bushing		<b>8649XA</b>	Full round, thin wall bushing w/.9150" OD
		6	Pin Bushing		<b>8649V</b>	Split type, thin wall bushing w/.9135" OD
		6	Pin Bushing		<b>8649V20</b>	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	1	Premium Set		<b>E-108KC</b> Std-30-60	2-3/32, 2-5/32	
	1	Standard Set		<b>E-108X</b> Std-30-40-60	2-3/32, 2-5/32	
	6	Standard Single Cylinder Set		<b>WE-108X</b> Std-30	2-3/32, 2-5/32	
	1	Repair Sleeve		<b>SL-123M</b> Std Only	3/32" wall, cut to length; Press fit sleeve	

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# Chrysler Marine

<b>6 3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore</b>					
<b>(cont.) Marine Applications</b>					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set		415M Std-10-20-30-40		
1	Rod Set		6-9185CP Std-10-20-30-40		
6	Rod Pair		9185CP Std-10-20-30-40		
1	Cam Set		1010M Std Only		
<b>7 3.9L 236.6 L-HEAD L6 (DeSoto), 3.4375" Bore</b>					
<b>Marine Applications Crown M47, Crown Special M47S</b>					
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust		V-1004 Std Only	1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.	
6	Intake		V-1005 Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide		VG-419	Exh.; Install taper end down; .3445" ID, 2.8130" O.A.L.	
6	Guide		VG-420	Int.; Install taper end up; .3425" ID, 2.8130" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring		VS-506	Use w/Rotocaps; 1.8570" Free Height	
12	Spring		VS-304	2.0000" Free Height	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper		VK-63	2 groove; Round key groove	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Cast Piston		32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Cast Piston - Individual		W32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Pin Bushing		8649XAS	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing		8649XA	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing		8649V	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing		8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set		E-107X Std-30-40-60	2-3/32, 2-5/32
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		485M Std-10-20-30-40		
6	Rod Pair		9560CPA Std-10-20-30-40-50		
1	Cam Set		1011M Std Only		
<b>8 4.1L 251 L-HEAD L6 (Chrysler), 3.4375" Bore</b>					
<b>Marine Applications M7, M27, M37 Crown</b>					
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Intake		V-1005 Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide		VG-419	Exh.; Install taper end down; .3445" ID, 2.8130" O.A.L.	
6	Guide		VG-420	Int.; Install taper end up; .3425" ID, 2.8130" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
6	Valve Stem Seal		MV-1771C	Int.; Umbrella type; Polyacrylate	
6	Valve Stem Seal Bulk		MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper		VK-66	2 groove	
24	Keeper		VK-66R	2 groove; Hardened	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Cast Piston		32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Cast Piston - Individual		W32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Pin Bushing		8649XAS	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing		8649XA	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing		8649V	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing		8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set		E-107X Std-30-40-60	2-3/32, 2-5/32
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		485M Std-10-20-30-40		
6	Rod Pair		9560CPA Std-10-20-30-40-50		
1	Cam Set		1011M Std Only		

# Chrysler Marine

<b>4.3L 265 L-HEAD L6 (Chrysler), 3.4375" Bore</b>					<b>9</b>
<b>Marine Applications M47-4, MA7-3</b>					
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide		<b>VG-419</b>	Exh.; .3445" ID, 2.8130" O.A.L.	
12	<b>VALVE SPRING</b> Spring	YEARS	<b>PART NO.</b> <b>VS-304</b>	<b>DESCRIPTION</b> 2.0000" Free Height	
24	<b>VALVE, MISC</b> Keeper	YEARS	<b>PART NO.</b> <b>VK-63</b>	<b>DESCRIPTION</b> 2 groove; Round key groove	
<b>B L O C K</b>	<b>QTY</b> 6	<b>PISTON</b> Cast Piston	<b>YEARS</b>	<b>PART NO.</b> <b>32NP</b> Std-20-30-40-60	<b>DESCRIPTION</b> Use w/E-107X ring set; Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Cast Piston - Individual		<b>W32NP</b> Std-20-30-40-60	Check piston grooving before supplying ring set; Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
	6	Pin Bushing		<b>8649XAS</b>	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing		<b>8649XA</b>	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing		<b>8649V</b>	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing		<b>8649V20</b>	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	<b>QTY</b> 1	<b>RINGS</b> Standard Set	YEARS	<b>PART NO.</b> <b>E-107X</b> Std-30-40-60	<b>DESCRIPTION</b> 2-3/32, 2-5/32
	<b>QTY</b> 1	<b>ENGINE BEARINGS</b> Main Set	YEARS	<b>PART NO.</b> <b>485M</b> Std-10-20-30-40	<b>DESCRIPTION</b>
	6	Rod Pair		<b>9560CPA</b> Std-10-20-30-40-50	
	1	Cam Set		<b>1011M</b> Std Only	
<b>4.4L 270 OHV V8 (Dodge/Plymouth), 3.625" Bore</b>					<b>10</b>
<b>Marine Applications Royal M44S</b>					
<b>V A L V E  T R A I N</b>	<b>QTY</b> 1	<b>TIMING</b> Timing Chain	YEARS	<b>PART NO.</b> <b>222-348</b>	<b>DESCRIPTION</b> Silent type; 68 Links
	1	Crank Sprocket		<b>223-274</b>	Use w/silent type chain; .750" wide sprocket; 23 Teeth
	<b>QTY</b> 16	<b>CAMSHAFT/LIFTER</b> Lifter	YEARS	<b>PART NO.</b> <b>HT-812</b> Std Only	<b>DESCRIPTION</b> Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk		<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	<b>QTY</b> 16	<b>VALVE GUIDE</b> Guide	YEARS	<b>PART NO.</b> <b>VG-5062</b>	<b>DESCRIPTION</b> .3735" ID, 2.3800" O.A.L.
	<b>QTY</b> 8	<b>VALVE SPRING</b> Spring	YEARS	<b>PART NO.</b> <b>VS-1435</b>	<b>DESCRIPTION</b> Int.; 1.9650" Free Height
	8	Spring, Bulk		<b>VS-1435B</b>	Int.; Carton of 250; 1.9650" Free Height
	<b>QTY</b> 16	<b>VALVE SEAL</b> Valve Stem Seal	YEARS	<b>PART NO.</b> <b>ST-2002</b>	<b>DESCRIPTION</b> Installation requires valve guide machining; Polyacrylate
	8	Valve Stem Seal		<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
	16	Valve Stem Seal Bulk		<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk		<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate	
<b>QTY</b> 16	<b>VALVE, MISC</b> Keeper	YEARS	<b>PART NO.</b> <b>VK-66</b>	<b>DESCRIPTION</b> Exh.; 2 groove	
16	Keeper		<b>VK-66R</b>	Exh.; 2 groove; Hardened	
16	Keeper		<b>VK-174</b>	Int.; 4 groove	
16	Keeper		<b>VK-174R</b>	Int.; 4 groove; Hardened	
<b>B L O C K</b>	<b>QTY</b> 8	<b>PISTON</b> Pin Bushing	YEARS	<b>PART NO.</b> <b>1904V</b>	<b>DESCRIPTION</b> Split type bushing
	<b>QTY</b> 1	<b>RINGS</b> Premium Set	YEARS	<b>PART NO.</b> <b>E-239K</b> Std-30-60	<b>DESCRIPTION</b> 2-5/64, 1-3/16
	1	Standard Set		<b>E-239X</b> Std-30-40	2-5/64, 1-3/16
	8	Standard Single Cylinder Set		<b>WE-239X</b> Std-30	2-5/64, 1-3/16
<b>QTY</b> 1	<b>SLEEVE</b> Repair Sleeve	YEARS	<b>PART NO.</b> <b>SL-17M</b> Std Only	<b>DESCRIPTION</b> 3/32" wall, must be cut to correct length & notched	
<b>4.5L 273 OHV V8, 3.625" Bore</b>					<b>11</b>
<b>Marine Applications 175, 200, Superbee</b>					
<b>QTY</b> 1	<b>TIMING</b> 3 Piece Set	YEARS	<b>PART NO.</b> <b>KT3-160S</b>	<b>DESCRIPTION</b> Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402	
1	Timing Chain		<b>222-160</b>	Double rlr.; 68 Links	
1	Crank Sprocket		<b>223-297</b>	Double row; 23 Teeth	
1	Cam Sprocket		<b>223-402</b>	Double row; 46 Teeth	
<b>QTY</b> 16	<b>CAMSHAFT/LIFTER</b> Lifter	YEARS	<b>PART NO.</b> <b>HT-2011</b> Std Only	<b>DESCRIPTION</b> Hyd.	

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# Chrysler Marine

## 11 4.5L 273 OHV V8, 3.625" Bore (cont.) Marine Applications 175, 200, Superbee

VALVE TRAIN		QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
		16	(cont.) Lifter, Bulk		HT-2011B Std Only	Hyd.; Carton of 117
		16	PUSH ROD		RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
		16	Push Rod, Bulk		BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
		8	ROCKER PARTS		R-861	L.H.
		8	Arm		R-862	R.H.
		8	Arm, Bulk		R-861B	L.H.; Carton of 64
		8	Arm, Bulk		R-862B	R.H.; Carton of 64
		8	VALVE SPRING		VS-680	Exh.; 1.8800" Free Height
		8	Spring, Bulk		VS-680B	Exh.; Carton of 300; 1.8800" Free Height
		8	VALVE SEAL		MV-1918	Exh.; Umbrella type; Viton®
		8	Valve Stem Seal		MV-1771C	Int.; Umbrella type; Polyacrylate
		8	Valve Stem Seal Bulk		MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
		32	VALVE, MISC		VK-138	1969-71; 1 groove; Square cut key groove
		32	Keeper		VK-138R	1969-71; 1 groove; Square cut key groove; Hardened
		32	Keeper		VK-66	1972-74; 2 groove
		32	Keeper		VK-66R	1972-74; 2 groove; Hardened
		32	Keeper, Bulk		VK-138B	1969-71; 1 groove; Square cut key groove; Carton of 1000
		8	Rotocap		RC-78S	Exh.
		8	PISTON		2134Y	
		8	Pin Bushing		2134Y20	w/.020" extra bore stock
		1	RINGS		E-239K Std-30-60	2-5/64, 1-3/16
		1	Premium Set		E-239X Std-30-40	2-5/64, 1-3/16
		8	Standard Set		WE-239X Std-30	2-5/64, 1-3/16
		1	ENGINE BEARINGS		4923MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings
		1	Main Set		8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
		1	Rod Set		8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
		1	Rod Set		8-2130CA60 60	Unplated & resizeable
		8	Rod Pair		2130CP Std-1-2-10-20-30-40-50	
		1	Cam Set		1484M Std Only	
		1	Cam Set		1451M Std Only	.760" length ctr. brg.
		1	FREEZE PLUGS		381-8010	
		1	Brass Block Plug Kit		381-4014	
		1	Steel Block Plug Kit			

## 12 5.2L 318 OHV V8, 3.9063" Bore Marine Applications Models Jet II; M80; M80A; Super Bee II; Super Bee V-Drive; 195, 195 Special, 195 Stern Drive (195 HP); 210 (210 HP); 215 (215 HP); 225 (225 HP); 240, 240 Stern Drive (240 HP)

VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	3 Piece Set		KT3-361S	195 Special; Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
		1	3 Piece Set		KT3-160S	195, 225, & 240 Eng.s.; Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
		1	Timing Chain		222-361	195 Special; Silent type; 68 Links
		1	Timing Chain		222-160	195, 225, & 240 Eng.s.; Double rlr.; 68 Links
		1	Crank Sprocket		223-359	195 Special; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
		1	Crank Sprocket		223-297	195, 225 & 240 Eng.s.; Double row; 23 Teeth
		1	Cam Sprocket		223-358	195 Special; Use w/silent type chain; 46 Teeth
		1	Cam Sprocket		223-402	195, 225 & 240 Eng.s.; Double row; 46 Teeth
		1	CAMSHAFT/LIFTER		CS-1053M	Standard Rotation; Repl. O.E. No. 2806283
		16	Lifter		AT-937 Std Only	M80 & M80A Eng.s.; Barrel shaped mech.
		16	Lifter		HT-2011 Std Only	195, 225, 240 & 195 Special Eng.s.; Hyd.
		16	Lifter, Bulk		AT-937B Std Only	M80 & M80A Eng.s.; Barrel shaped mech.; Carton of 117
		16	Lifter, Bulk		HT-2011B Std Only	195, 225, 240 & 195 Special Eng.s.; Hyd.; Carton of 117

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5.2L 318 OHV V8, 3.9063" Bore **12**

**Marine Applications** Models Jet II; M80; M80A; Super Bee II; Super Bee V-Drive; 195, 195 Special, (cont.)  
195 Stern Drive (195 HP); 210 (210 HP); 215 (215 HP); 225 (225 HP); 240, 240 Stern Drive (240 HP)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	(cont.) Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
16	PUSH ROD Push Rod		RP-3194	Exc. M80 & M80A Eng.s.; .312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk		BRP-3194	Exc. M80 Eng.s.; Exc. M80A Eng.s.; .312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
8	ROCKER PARTS Arm		R-861	L.H.; Exc. M80 & M80A Eng.s.
8	Arm		R-862	R.H.; Exc. M80 & M80A Eng.s.
8	Arm, Bulk		R-861B	L.H.; Exc. M80 & M80A Eng.s.; Carton of 64
8	Arm, Bulk		R-862B	R.H.; Exc. M80 & M80A Eng.s.; Carton of 64
2	Rocker Shaft		RS-626	Exc. M80 & M80A Eng.s.
8	VALVE Exhaust		V-1343 Std Only	M80 & M80A Eng.s.; 4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Intake		V-1344 Std Only	M80 & M80A Eng.s.; 2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
8	Intake		V-1722 Std-5-15	195 Special; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk		V-1722B15 15	195 Special; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	VALVE GUIDE Guide		VG-5062	Exh.; M80 & M80A Eng.s.; .3735" ID, 2.3800" O.A.L.
8	Guide		VG-5033	Int.; M80 & M80A Eng.s.; .3735" ID, 2.6200" O.A.L.
16	VALVE SPRING Spring		VS-680	To Ser. No. E169354 Exc. M80, M80A Eng.s.; 318-195, & Special 915 Eng.s.; 1.8800" Free Height
16	Spring, Bulk		VS-680B	To Ser. No. E169354 Exc. M80, M80A Eng.s.; 318-195, & Special 915 Eng.s.; Carton of 300; 1.8800" Free Height
8	VALVE SEAL Valve Stem Seal		ST-2048	Int.; From Ser. No. E09632; Exc. M80 & M80A Eng.s.; Positive type; Viton®
8	Valve Stem Seal		MV-1918	Exh.; Exc. M80 & M80A Eng.s.; Umbrella type; Viton®
8	Valve Stem Seal		MV-1771C	Int.; To Ser. No. E09632 Exc. 195 Special Eng.s.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk		MV-1771	Int.; To Ser. No. E09632 Exc. 195 Special Eng.s.; Umbrella type; Carton of 100; Polyacrylate
8	VALVE SEAT Exh.		245-1687-2N Std Only	M80 & M80A Eng.s.; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.		245-1687-2 Std Only	M80 & M80A Eng.s.; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.		245-1937-1 Std Only	M80 & M80A Eng.s.; 1.9425" OD, 1.6875" ID, .2480" Depth
16	VALVE, MISC Keeper		VK-174	Exh.; M80 & M80A Eng.s.; 4 groove
16	Keeper		VK-174R	Exh.; 4 groove; Hardened
16	Keeper		VK-66	Int.; M80, M80A & 195 Spec. Eng.s.; 2 groove
16	Keeper		VK-66R	Int.; 2 groove; Hardened
8	Rotocap		RC-78S	Exc. M80 & M80A Eng.s.
8	PISTON Cast Piston		285NCP30 30-40-60	From Ser. No. E169355, Exc. M80, M80A Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston		285NP Std-20-30-40-60	From Ser. No. E169355; Exc. M80, M80A Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
8	Cast Piston - Individual		W285NCP30 30-40-60	From Ser. No. E169355; Exc. M80, M80A Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual		W285NP Std-20-30-40-60	From Ser. No. E169355; Exc. M80, M80A Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-pin rod - 8.5:1 C.R.

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# Chrysler Marine

## 12 5.2L 318 OHV V8, 3.9063" Bore (cont.) Marine Applications Models Jet II; M80; M80A; Super Bee II; Super Bee V-Drive; 195, 195 Special, 195 Stern Drive (195 HP); 210 (210 HP); 215 (215 HP); 225 (225 HP); 240, 240 Stern Drive (240 HP)

BLOCK	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Cast Piston Set w/Prem. Rings		8K285NCP30 30-40-60	From Ser. No. E169355; Exc. M80, M80A Engs.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
	1	Cast Piston Set w/Prem. Rings		8K285NP20 20-30-40-60	From Ser. No. E169355; Exc. M80, M80A Engs.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
	1	Cast Piston Set w/Econ. Rings		8X285NP20 20-40-60	From Ser. No. E169355; Exc. M80, M80A Engs.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
	8	Pin Bushing		2134Y	
	8	Pin Bushing		2134Y20	w/.020" extra bore stock
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set		E-178K Std-20-30-40-60	2-5/64, 1-3/16
	1	Standard Set		E-178X Std-20-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set		WE-178K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-178X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set		7381MA10X20 10X20	<b>A-Series aluminum bearings</b> ; Use in .020" O/S Bore	
1	Main Set		5095MA Std-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 bearing full grooved	
1	Main Set		5024MA Std-1-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 upper brg. grooved	
1	Rod Set		8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore	
1	Rod Set		8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable	
1	Rod Set		8-2130CA60 60	Unplated & resizeable	
8	Rod Pair		2130CP Std-1-2-10-20-30-40-50		
1	Cam Set		1484M Std Only		
1	Cam Set		1451M Std Only	.760" length ctr. brg.	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump		224-4166		
1	Screen Assy.		224-1166		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit		381-8010		
1	Steel Block Plug Kit		381-4014		

## 13 5.4L 331 OHV V8 (Chrysler), 3.8125" Bore Marine Applications M45, M45S, M45SP

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		MV-1771C	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk		MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		245-1687-7 Std Only	1.6925" OD, 1.3750" ID, .2480" Depth
8	Int.		245-1875-2 Std Only	1.8800" OD, 1.5625" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-66	2 groove
32	Keeper		VK-66R	2 groove; Hardened
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing		1804V	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve		SL-93M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		916M Std-10	
8	Rod Pair		1800CP Std-10	
1	Cam Set		1149M Std Only	

## 14 5.6L 340 OHV V8, 4.04" Bore 1973-71 Marine Applications Models Chrysler III; Jet III; Super Bee III; Super Bee III V-Drive; 250 (250 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	Timing Chain		222-160	Double rlr.; 68 Links

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# Chrysler Marine

5.6L 340 OHV V8, 4.04" Bore 1973-71 **14**

**Marine Applications** Models Chrysler III; Jet III; Super Bee III; Super Bee III V-Drive; 250 (250 HP) (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket		223-297	Double row; 23 Teeth
1	Cam Sprocket		223-402	Double row; 46 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft		CS-644	To Ser. No. E103532 w/Standard Rotation
16	Lifter		HT-2011 Std Only	Hyd.
16	Lifter, Bulk		HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit		KC-644	Hyd.; Incl. (1) CS-644, (16) HT-2011, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod		RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk		BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm		R-861	L.H.
8	Arm		R-862	R.H.
8	Arm, Bulk		R-861B	L.H.; Carton of 64
8	Arm, Bulk		R-862B	R.H.; Carton of 64
2	Rocker Shaft		RS-626	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring		VS-680	Exh.; To Ser. No. E169354; 1.8800" Free Height
8	Spring, Bulk		VS-680B	Exh.; To Ser. No. E169354; Carton of 300; 1.8800" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	73-72	ST-2048	Int.; Positive type; Viton®
8	Valve Stem Seal	71	MV-1771C	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal		MV-1918	Exh.; Umbrella type; Viton®
8	Valve Stem Seal Bulk	71	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	73-72	VK-66	Exh. & Int.; 2 groove
32	Keeper	73-72	VK-66R	Exh. & Int.; 2 groove; Hardened
16	Keeper	71	VK-138	Exh.; 1 groove; Square cut key groove
16	Keeper	71	VK-138R	Exh.; 1 groove; Square cut key groove; Hardened
16	Keeper	71	VK-66	Int.; 2 groove
16	Keeper	71	VK-66R	Int.; 2 groove; Hardened
16	Keeper, Bulk	71	VK-138B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		RC-78S	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Powerforged		L-2385F30 * 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		WL-2385F30 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin Bushing		2134Y	
8	Pin Bushing		2134Y20	w/.020" extra bore stock
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set		E-286K Std-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-286X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-286K30 30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-286X30 30	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set		4923MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set		8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set		8-2130CA60 60	Unplated & resizeable
8	Rod Pair		2130CP Std-1-2-10-20-30-40-50	
1	Cam Set		1484M Std Only	
1	Cam Set		1451M Std Only	.760" length ctr. brg.
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump		224-4166	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit		381-8010	
1	Steel Block Plug Kit		381-4014	

# Chrysler Marine

## 15 5.9L 360 OHV V8, 4" Bore Marine Applications Models Chrysler Jet; Super Bee III (Volvo); Super Bee III V-Drive; 230 (230 HP); 240 (240 HP); 250 (250 HP); 265 (265 HP); 275 (275 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	Timing Chain		<b>222-160</b>	Double rlr.; 68 Links
1	Crank Sprocket		<b>223-297</b>	Double row; 23 Teeth
1	Cam Sprocket		<b>223-402</b>	Double row; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter		<b>HT-2011</b> Std Only	Hyd.
16	Lifter, Bulk		<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		<b>RP-3194</b>	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk		<b>BRP-3194</b>	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm		<b>R-861</b>	L.H.
8	Arm		<b>R-862</b>	R.H.
8	Arm, Bulk		<b>R-861B</b>	L.H.; Carton of 64
8	Arm, Bulk		<b>R-862B</b>	R.H.; Carton of 64
2	Rocker Shaft		<b>RS-626</b>	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		<b>ST-2048</b>	Int.; Positive type; Viton®
8	Valve Stem Seal		<b>MV-1918</b>	Exh.; Umbrella type; Viton®
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		<b>VK-66</b>	Exh. & Int.; 2 groove
32	Keeper		<b>VK-66R</b>	Exh. & Int.; 2 groove; Hardened
8	Rotocap		<b>RC-78S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		<b>405CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston		<b>405P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
8	Cast Piston - Individual		<b>W405P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings		<b>8K405CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		<b>8K405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Econ. Rings		<b>8X405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4999MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b> ; w/3.910" max. flange OD
1	Main Set		<b>4948MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; 3.685" max. flange OD
1	Rod Set		<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set		<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set		<b>8-2130CA60</b> 60	Unplated & resizeable
8	Rod Pair		<b>2130CP</b> Std-1-2-10-20-30-40-50	
1	Cam Set		<b>1484M</b> Std Only	
1	Cam Set		<b>1451M</b> Std Only	.760" length ctr. brg.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		<b>381-8010</b>	M81; Barrel shaped mech.
1	Steel Block Plug Kit		<b>381-4014</b>	M81; Barrel shaped mech.; Carton of 117

## 16 5.9L 361 OHV V8, 4.125" Bore Marine Applications M81 Imperial

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter		<b>AT-937</b> Std Only	M81; Barrel shaped mech.
16	Lifter, Bulk		<b>AT-937B</b> Std Only	M81; Barrel shaped mech.; Carton of 117

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# Chrysler Marine

## 5.9L 361 OHV V8, 4.125" Bore 16 Marine Applications M81 Imperial (cont.)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Intake		V-1438 Std Only	1.8800" Head Dia., .3725" Stem Dia., 5.6680" O.A.L.
8	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-549	Exh.; .4385" ID, 3.0900" O.A.L.
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		MV-1707C	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk		MV-1707	Int.; Umbrella type; Carton of 100; Polyacrylate
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-174	Exh.; 4 groove
16	Keeper		VK-174R	Exh.; 4 groove; Hardened
16	Keeper		VK-66	Int.; 2 groove
16	Keeper		VK-66R	Int.; 2 groove; Hardened
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-273K Std-20-30-40-60	2-3/32, 1-3/16
1	Premium Set		E-404K Std-30-60	2-3/32, 1-3/16
8	Premium Single Cylinder Set		WE-273K Std-20-30-40-60	2-3/32, 1-3/16
8	Premium Single Cylinder Set		WE-404K Std-30	2-3/32, 1-3/16
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4094M Std-10-20-30-40-60	3.453" max. flange OD
1	Rod Set		8-2320CP Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set		8-2320CA60 60	Unplated & resizeable
8	Rod Pair		2320CP Std-1-10-20-30-40-50	
1	Cam Set		1453M Std Only	Babbitt material; Full round design
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8011	

## 6.3L 383 OHV V8, 4.25" Bore 17 Marine Applications M383, M383B, 260, 280

1	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-501S	260 HP; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367
1	Timing Chain		222-501	260 HP; Silent type; 50 Links
1	Timing Chain		222-168	280 HP; Double rlr.; 66 Links
1	Crank Sprocket		223-339	280 HP; Double row; 25 Teeth
1	Cam Sprocket		223-340A	280 HP; Double row; 50 Teeth
16	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter		HT-2011 Std Only	260 HP; Hyd.
16	Lifter		HT-2011R Std Only	280 HP; Hyd. Hi-Rev
16	Lifter, Bulk		HT-2011B Std Only	260 HP; Hyd.; Carton of 117
16	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3191	8.5750" O.A.L.
16	Push Rod, Bulk		BRP-3191	Carton of 100; 8.5750" O.A.L.
8	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm		R-829	L.H.
8	Arm		R-828	R.H.
2	Rocker Shaft		RS-612	
8	VALVE	YEARS	PART NO.	DESCRIPTION
8	Intake		V-1386 Std Only	383-260 To Ser. No. E44741; 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	Intake		V-1386 Std Only	383-280 all; 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		MV-1707C	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk		MV-1707	Int.; Umbrella type; Carton of 100; Polyacrylate
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-138	Exh.; 1 groove; Square cut key groove
16	Keeper		VK-138R	Exh.; 1 groove; Square cut key groove; Hardened
16	Keeper		VK-66	Int.; 2 groove
16	Keeper		VK-66R	Int.; 2 groove; Hardened
16	Keeper, Bulk		VK-138B	Exh.; 1 groove; Square cut key groove; Carton of 1000
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-233K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-233X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-233K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-233X Std-20-30-40-60	2-5/64, 1-3/16
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4094M Std-10-20-30-40-60	3.453" max. flange OD

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# Chrysler Marine

## 17 6.3L 383 OHV V8, 4.25" Bore (cont.) Marine Applications M383, M383B, 260, 280

BLOCK	ENGINE BEARINGS				BLOCK		
	QTY	(cont.)	YEARS	PART NO.		DESCRIPTION	
	1	Rod Set		8-2320CP		Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
	1	Rod Set		8-2320CA60		60	Unplated & resizeable
	8	Rod Pair		2320CP		Std-1-10-20-30-40-50	
1	Cam Set		1453M	Std Only	Babbitt material; Full round design		
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit			381-8011			

## 18 6.6L 400 OHV V8, 4.342" Bore Marine Applications 280

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	1	Timing Chain		222-168	Double rlr.; 66 Links		
	1	Crank Sprocket		223-339	Double row; 25 Teeth		
	1	Cam Sprocket		223-340A	Double row; 50 Teeth		
	QTY	CAMSHAFT/LIFTER		YEARS	PART NO.		DESCRIPTION
	16	Lifter			HT-2011R		Std Only Hyd. Hi-Rev
	QTY	PUSH ROD		YEARS	PART NO.		DESCRIPTION
	16	Push Rod			RP-3191		8.5750" O.A.L.
	16	Push Rod, Bulk			BRP-3191		Carton of 100; 8.5750" O.A.L.
	QTY	ROCKER PARTS		YEARS	PART NO.		DESCRIPTION
8	Arm			R-829	L.H.		
8	Arm			R-828	R.H.		
2	Rocker Shaft			RS-612			
QTY	VALVE		YEARS	PART NO.	DESCRIPTION		
8	Intake			V-1386	Std Only 2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.		
QTY	VALVE SEAL		YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal			ST-2048	Int.; Positive type; Viton®		
8	Valve Stem Seal			MV-1707C	Exh.; Umbrella type; Polyacrylate		
8	Valve Stem Seal Bulk			MV-1707	Exh.; Umbrella type; Carton of 100; Polyacrylate		
QTY	VALVE, MISC		YEARS	PART NO.	DESCRIPTION		
16	Keeper			VK-138	Exh.; 1 groove; Square cut key groove		
16	Keeper			VK-138R	Exh.; 1 groove; Square cut key groove; Hardened		
16	Keeper			VK-66	Int.; 2 groove		
16	Keeper			VK-66R	Int.; 2 groove; Hardened		
16	Keeper, Bulk			VK-138B	Exh.; 1 groove; Square cut key groove; Carton of 1000		
8	Rotocap			RC-78S			
QTY	PISTON		YEARS	PART NO.	DESCRIPTION		
8	Cast Piston			406AP	Std-20-30-40 Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.		
8	Cast Piston - Individual			W406AP	Std-20-30-40 Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.		
QTY	RINGS		YEARS	PART NO.	DESCRIPTION		
1	Premium Set			E-318K	Std-30 2-5/64, 1-3/16		
1	Standard Set			E-318X	Std-30 2-5/64, 1-3/16		
8	Premium Single Cylinder Set			WE-318K30	30 2-5/64, 1-3/16		
8	Standard Single Cylinder Set			WE-318X	Std Only 2-5/64, 1-3/16		
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION		
1	Main Set			4094M	Std-10-20-30-40-60 3.453" max. flange OD		
1	Rod Set			8-2320CP	Std-10-20-30-40-50 8-2320CA 60 avail. as unplated & resizeable		
1	Rod Set			8-2320CA60	60 Unplated & resizeable		
8	Rod Pair			2320CP	Std-1-10-20-30-40-50		
1	Cam Set			1453M	Std Only Babbitt material; Full round design		
QTY	OIL PUMP		YEARS	PART NO.	DESCRIPTION		
1	Oil Pump			224-4174	Use original cover plate on Eng. w/canister oil filter		
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit			381-8011			

## 19 6.7L 413 OHV V8, 4.1875" Bore Marine Applications

QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
1	Main Set			4924MA	Std-10-20-30 1959-73; <b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD
1	Main Set			5025MA	Std-10-20-30 1974-79; <b>A-Series aluminum bearings</b> ; Partial grooved; 3.930" max. flange OD
1	Rod Set			8-2320CP	Std-10-20-30-40-50 8-2320CA 60 avail. as unplated & resizeable
1	Rod Set			8-2320CA60	60 Unplated & resizeable

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# Chrysler Marine

6.7L 413 OHV V8, 4.1875" Bore **19**  
Marine Applications (cont.)

QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
8	Rod Pair		<b>2320CP</b> Std-1-10-20-30-40-50	
1	Cam Set		<b>1453M</b> Std Only	Babbitt material; Full round design

7.0L 426 OHV V8, 4.25" Bore **20**  
Marine Applications M-426-B, M-426-D

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-233X</b> Std-20-30-40-60	2-5/64, 1-3/16

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4924MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD
1	Rod Set		<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set		<b>8-2320CA60</b> 60	Unplated & resizeable
8	Rod Pair		<b>2320CP</b> Std-1-10-20-30-40-50	
1	Cam Set		<b>1453M</b> Std Only	Babbitt material; Full round design

QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		<b>224-4174</b>	Exc. Hemi Eng.s.; Use original cover plate on Eng.s. w/canister oil filter
1	Oil Pump		<b>224-4174V</b>	High-Volume; Use original cover plate on Eng.s. w/canister oil filter
1	Pump Repair Kit		<b>224-5174</b>	

7.2L 440 OHV V8, 4.32" Bore **21**  
Marine Applications Models 300 (300 HP); 330 (330 HP); 335 (335 HP); 375 (375 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		<b>KT3-501S</b>	300 & 335 HP; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367
1	Timing Chain		<b>222-501</b>	300 & 335 HP; Silent type; 50 Links
1	Timing Chain		<b>222-168</b>	330 & 375 Eng.s.; Double rlr.; 66 Links
1	Crank Sprocket		<b>223-339</b>	330 & 375 Eng.s.; Double row; 25 Teeth
1	Cam Sprocket		<b>223-340A</b>	330 & 375 Eng.s.; Double row; 50 Teeth

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter		<b>HT-2011R</b> Std Only	Hyd. Hi-Rev

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		<b>RP-3191</b>	8.5750" O.A.L.
16	Push Rod, Bulk		<b>BRP-3191</b>	Carton of 100; 8.5750" O.A.L.

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm		<b>R-829</b>	L.H.
8	Arm		<b>R-828</b>	R.H.
2	Rocker Shaft		<b>RS-612</b>	

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Intake		<b>V-1386</b> Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		<b>ST-2048</b>	Int.; 330 & 375 Eng.s.; Positive type; Viton®
8	Valve Stem Seal		<b>MV-1707C</b>	Exh.; Exc. 330 & 375 HP; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk		<b>MV-1707</b>	Exh.; Exc. 330 & 375 HP; Umbrella type; Carton of 100; Polyacrylate

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		<b>VK-138</b>	Exh.; 1 groove; Square cut key groove
16	Keeper		<b>VK-138R</b>	Exh.; 1 groove; Square cut key groove; Hardened
16	Keeper		<b>VK-66</b>	Int.; 2 groove
16	Keeper		<b>VK-66R</b>	Int.; 2 groove; Hardened
16	Keeper, Bulk		<b>VK-138B</b>	Exh.; 1 groove; Square cut key groove; Carton of 1000
8	Rotocap		<b>RC-78S</b>	

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Powerforged		<b>L-2355F</b> Std-30-40-60	375 Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 2.061" CD, 1.0939" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2355F</b> Std-30-40-60	375 Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 2.061" CD, 1.0939" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-424K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-424X</b> Std-30-40-60	2-5/64, 1-3/16

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# Chrysler Marine

<b>21 7.2L 440 OHV V8, 4.32" Bore</b>					
<b>(cont.) Marine Applications Models 300 (300 HP); 330 (330 HP); 335 (335 HP); 375 (375 HP)</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Premium Single Cylinder Set		<b>WE-424K</b> Std-30-40-60	2-5/64, 1-3/16
	8	Standard Single Cylinder Set		<b>WE-424X</b> Std-30-40-60	2-5/64, 1-3/16
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set		<b>4924MA</b> Std-10-20-30	1959-73; <b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD
	1	Main Set		<b>5025MA</b> Std-10-20-30	1974-79; <b>A-Series aluminum bearings</b> ; Partial grooved; 3.930" max. flange OD
	1	Rod Set		<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
	1	Rod Set		<b>8-2320CA60</b> 60	Unplated & resizeable
	8	Rod Pair		<b>2320CP</b> Std-1-10-20-30-40-50	
	1	Cam Set		<b>1453M</b> Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump		<b>224-4174</b>	Use original cover plate on Eng. w/canister oil filter	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit		<b>381-8011</b>		

**Chrysler Minivans - See Dodge Truck**  
**Chrysler Truck - See Dodge Truck**  
**Daihatsu Car**

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.0L 993cc SOHC L3 76mm Bore (6 Valve).....	1990-88	..... 1			
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
CB.....	1.0L 993cc SOHC L3 76mm Bore (6 Valve) .....	..... 1			

<b>1 1.0L 993cc SOHC L3 (6 Valve), 76mm Bore 1990-88</b>				
Eng. Code "CB" 1988-92				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-88	<b>222-B178</b>	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-88	<b>7109M</b> Std Only	
1	Thrust Washer Set	90-88	<b>66676BF</b> Std Only	Position 3
1	Rod Set	90-88	<b>3-1180CP</b> Std-.25MM	

**Datsun - See Nissan**  
**Dodge Car - See Chrysler Corp. Car**  
**Dodge Minivans - See Dodge Truck**  
**Dodge SUV's - See Dodge Truck**

# Dodge Truck (Incl. Minivans and SUV's)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck .....	1982-79	1	3.7L 225 OHV L6 3.4063" Bore L/D Truck .....	1987-60	15
2.0L 122 (1997cc) SOHC L4 85mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	1989-83	2	3.7L 228.1 L-HEAD L6 3.375" Bore (DeSoto) L/D Truck .....	1956-36	16
2.2L 135 (2212cc) SOHC L4 87.5mm Bore (8 Valve) L/D Truck .....	1988-82	3	3.8L 230 L-HEAD L6 3.25" Bore (Dodge) L/D Truck .....	1960-46	17
2.3L 143 (2346cc) SOHC Turbo-Diesel L4 91mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	1985-83	4	3.9L 236.6 L-HEAD L6 3.4375" Bore (DeSoto) L/D Truck .....	1950-42	18
2.4L 143.4 (2351cc) SOHC L4 86.5mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck .....	1990	5	3.9L 239 OHV V6 3.9063" Bore (12 Valve) L/D Truck .....	1990-86	19
2.5L 153 (2507cc) SOHC L4 87.5mm Bore (8 Valve) L/D Truck .....	1990-87	6	4.1L 251 L-HEAD L6 3.4375" Bore (Chrysler) L/D Truck .....	1968-58	20
2.5L 153 (2507cc) SOHC Turbo L4 87.5mm Bore (8 Valve) L/D Truck .....	1990-89	7	4.3L 260 OHV V8 3.5625" Bore (Plymouth) L/D Truck .....	1956-55	21
2.6L 156 (2555cc) SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck .....	1989-79	8	4.5L 273 OHV V8 3.625" Bore L/D Truck.....	1968-64	22
2.8L 170 OHV L6 3.4063" Bore L/D Truck .....	1969-60	9	5.2L 315 OHV V8 3.625" Bore (Dodge) L/D Truck...	1959-55	23
3.0L 181.1 (2972cc) SOHC V6 91.1mm Bore (12 Valve) (Mitsubishi Eng.) L/D Truck .....	1990-87	10	5.2L 318 OHV V8 3.9063" Bore L/D Truck.....	1990-59	24
3.2L 198 OHV L6 3.4063" Bore L/D Truck .....	1973-70	11	5.4L 331 OHV V8 3.8125" Bore (Chrysler) L/D Truck .....	1956-54	25
3.3L 201 (3302cc) OHV V6 93mm Bore (12 Valve) L/D Truck .....	1990	12	5.9L 359 OHV Turbo-Diesel L6 4.0197" Bore (12 Valve) (Cummins Eng.) L/D Truck .....	1990-88	26
3.6L 217.8 L-HEAD L6 3.25" Bore (Dodge/Plymouth) L/D Truck .....	1956-33	13	5.9L 360 OHV V8 4" Bore L/D Truck.....	1990-71	27
3.6L 217.8 L-HEAD L6 3.375" Bore (Dodge/Plymouth) L/D Truck .....	1954-38	14	5.9L 361 OHV V8 4.125" Bore L/D Truck.....	1970-68	28
			6.3L 383 OHV V8 4.25" Bore L/D Truck.....	1971-63	29
			6.6L 400 OHV V8 4.342" Bore L/D Truck.....	1980-71	30
			7.2L 440 OHV V8 4.32" Bore L/D Truck.....	1980-72	31

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G52B .....	2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	1	4G64.....	2.4L 143.4 (2351cc) SOHC L4 86.5mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck .	5
G54B .....	2.6L 156 (2555cc) SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	8	6BTA5.9.....	5.9L 359 OHV Turbo-Diesel L6 4.0197" Bore (12 Valve) (Cummins Eng.) L/D Truck.....	26
G63B .....	2.0L 122 (1997cc) SOHC L4 85mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	2	6G72.....	3.0L 181.1 (2972cc) SOHC V6 91.1mm Bore (12 Valve) (Mitsubishi Eng.) L/D Truck.....	10
4D55-T.....	2.3L 143 (2346cc) SOHC Turbo-Diesel L4 91mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	4			
4G52.....	2.0L 121.7 (1995cc) SOHC L4 84mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	1			

2.0L 121.7 (1995cc) SOHC L4 (8 Valve), 84mm Bore (Mitsubishi Eng.) 1982-79						
L/D Truck VIN Codes "U" 1979-80, "5" 1981-82, Eng. Codes "G52B" 1979-82, "4G52" 1979-82						
	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	1	Complete Set	82-79	<b>KT-1013S</b>	Incl. sprockets, chain, tensioner & guides	
	1	Bal. Shaft Set	82-79	<b>KT-1014S</b>	Incl. sprockets, chain & guides	
	1	Timing Chain	82-79	<b>222-3DR102</b>	Double rlr.; 102 Links	
	1	Timing Chain Tensioner	82-79	<b>222-49CT</b>		
	1	Timing Chain Guide	82-79	<b>222-31GP</b>	Slack Side	
	1	Timing Chain Guide	82-79	<b>222-30GP</b>	Tension Side	
	1	Bal. Shaft Chain Guide	82-79	<b>222-51GP</b>	Lower	
	1	Bal. Shaft Chain Guide	82-79	<b>222-64GP</b>	R.H.	
	1	Crank Sprocket	82-79	<b>223-407</b>	Single row; 34 Teeth	
		4	VALVE Intake	82-79	<b>V-3953</b> Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
		4	VALVE GUIDE Guide	82-79	<b>VG-714</b>	Exh.; .3160" ID, 2.0500" O.A.L.
		4	VALVE GUIDE Guide	82-79	<b>VG-715</b>	Int.; .3155" ID, 1.8500" O.A.L.
		8	VALVE SEAL Valve Stem Seal	82-79	<b>ST-2037</b>	Positive type; Rubber
	4	VALVE SEAT Exh.	82-79	<b>245-1500-62</b> Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
	4	VALVE SEAT Int.	82-79	<b>245-1750-61</b> Std Only	1.7570" OD, 1.4450" ID, .3100" Depth	
	4	VALVE, MISC Spring Insert	82-79	<b>259-821B</b>	.060"; Case hardened; Carton of 48	

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

<b>1 2.0L 121.7 (1995cc) SOHC L4 (8 Valve), 84mm Bore (Mitsubishi Eng.) 1982-79</b> (cont.) L/D Truck VIN Codes "U" 1979-80, "5" 1981-82, Eng. Codes "G52B" 1979-82, "4G52" 1979-82					
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	82-79	12207P Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 40.3mm CD, 22.0mm Pin Dia., Flat Head - 8.5:1 C.R.	
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	82-79	E-357KC Std-1.00MM	2-2.00MM, 1-4.00MM
	1	Standard Set	82-79	E-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	82-79	WE-357KC Std-.50-.75MM	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	82-79	WE-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	82-79	6618M Std-.25-.50-.75MM	
	1	Rod Set	82-79	4-66675P Std-.25-.50-.75-1.00MM	
1	Aux. Shaft Set	82-79	1805M		
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	82-79	224-41914		
<b>2 2.0L 122 (1997cc) SOHC L4 (8 Valve), 85mm Bore (Mitsubishi Eng.) 1989-83</b> L/D Truck VIN Codes "D" 1984-89, "5" 1983, Eng. Code "G63B" 1983-89					
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	89-87	222-158	
	1	Timing Belt	86-83	222-89	
	1	Timing Belt Tensioner	89-83	222-105BT	
	1	Bal. Shaft Belt	89-87	222-159	
	1	Bal. Shaft Belt	86-83	222-90	
	1	Bal. Shaft Belt Tensioner	89-88	222-161BT	
	1	Bal. Shaft Belt Tensioner	87	222-161BT	From 5/87
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	89-85	CS-817	w/Hyd. followers
	8	Lifter	89-85	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	89-85	HT-6000B Std Only	Hyd. lash adj.; Carton of 128	
1	Prelube	89-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
2	Arm	89-85	R-958	Exh. R.H.	
1	Rocker Shaft	89-85	RS-658	Exh. R.H.	
1	Rocker Shaft	89-85	RS-659	Int. L.H.	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	89-83	V-3933 Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.	
4	Intake	89-83	V-2331 Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.	
4	Intake	89-83	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	89-83	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.	
4	Guide	89-83	VG-715	Int.; .3155" ID, 1.8500" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
4	Valve Stem Seal	89-84	ST-2083	Exh.; Positive type; Rubber	
4	Valve Stem Seal	89-84	ST-2037	Int.; Positive type; Rubber	
8	Valve Stem Seal	83	ST-2083	Exh. & Int.; To 12/82; Positive type; Rubber	
4	Valve Stem Seal	83	ST-2037	Int.; From 1/83; Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	89-83	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
4	Int.	89-83	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	89-84	VK-232		
16	Keeper	83	VK-232	From 1/83	
4	Spring Insert	89-83	259-821B	.060"; Case hardened; Carton of 48	
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	89-87	E-455KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	1	Premium Set	86-83	E-452KC Std-.75-1.00MM	2-2.00MM, 1-4.00MM
	1	Standard Set	89-87	E-455X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	1	Standard Set	86-83	E-452X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	89-87	WE-455KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	86-83	WE-452KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	

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## Dodge Truck (Incl. Minivans and SUV's)

2.0L 122 (1997cc) SOHC L4 (8 Valve), 85mm Bore (Mitsubishi Eng.) 1989-83 <b>2</b>						
L/D Truck VIN Codes "D" 1984-89, "5" 1983, Eng. Code "G63B" 1983-89 (cont.)						
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Standard Single Cylinder Set	89-87	<b>WE-455X</b>	Std.-50-.75-1.00MM 2-1.50MM, 1-4.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	89-83	<b>5103M</b>	Std.-25-.50-.75MM	
1	Rod Set	89-83	<b>4-3485CP</b>	Std.-25-.50-.75MM		
1	Bal. Shaft Set	89-83	<b>1810M</b>			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	89-83	<b>260-1199</b>	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	89-83	<b>381-8099</b>	Eng. Code "G63B"		
<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>	
	89-87	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-875</b> <b>205-875M</b>	<b>205-375</b> <b>205-375M</b>	
	86-83	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-874</b> <b>205-874M</b>	<b>205-374</b> <b>205-374M</b>	
2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1988-82 <b>3</b>						
L/D Truck VIN Codes "B" 1982, "C" 1983-88, "D" 1987						
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	88-82	<b>222-71</b>		
	1	Timing Belt Tensioner	88-82	<b>222-91BT</b>		
	1	Timing Belt & Tensioner Set	88-82	<b>BTS-71</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	88	<b>CS-785</b>		
	1	Camshaft	88	<b>CS-922</b>	w/.020" O/S journals	
	8	Lifter	88-82	<b>HT-2105</b>	Std Only Hyd. lash adj.	
	8	Lifter, Bulk	88-82	<b>HT-2105B</b>	Std Only Hyd. lash adj.; Carton of 247	
	1	Prelube	88-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	88	<b>KC-785</b>	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B	
	1	Cam/Flwr. Kit	88	<b>KC-785A</b>	Incl. (1) CS-785, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Flwr. Kit	88	<b>KC-785C</b>	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	88	<b>KCT-785D</b>	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-71, (1) 55-403B	
	1	Cam/Lifter/Flwr./Timing Kit	88	<b>KCT-785F</b>	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-71, (1) 55-403B	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Arm	88	<b>R-951</b>		
	8	Arm	87-82	<b>R-912</b>		
	8	Arm, Bulk	88	<b>R-951B</b>	Carton of 32	
8	Arm, Bulk	87-82	<b>R-912B</b>	Carton of 64		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exhaust	88-86	<b>V-2427</b>	Std-15 4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Exhaust	87-82	<b>V-2194</b>	Std Only Chrome plated stem; 1.3937" Head Dia., .3106" Stem Dia., 4.4420" O.A.L.		
4	Exhaust, Bulk	88-86	<b>V-2427B</b>	Std-15 4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.		
4	Intake	88-86	<b>V-2428</b>	Std Only Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	88-82	<b>VG-700</b>	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.		
4	Guide	88-82	<b>VG-870</b>	Exh.; .3145" ID, 1.6930" O.A.L.		
4	Guide	88-82	<b>VG-701</b>	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.		
4	Guide	88-82	<b>VG-869</b>	Int.; .3145" ID, 1.5750" O.A.L.		
4	Guide, Bulk	88-82	<b>VG-700B</b>	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.		
4	Guide, Bulk	88-82	<b>VG-701B</b>	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	88	<b>VS-1457</b>	2.2250" Free Height		
8	Spring, Bulk	88	<b>VS-1457B</b>	Carton of 250; 2.2250" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	88-82	<b>ST-2015</b>	Positive type; Viton®		
8	Valve Stem Seal	88-82	<b>MV-1919</b>	Umbrella type; Viton®		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exh.	88-82	<b>245-1500-63</b>	Std Only 1.5070" OD, 1.2100" ID, .3450" Depth		
4	Int.	88-82	<b>245-1687-51</b>	Std Only 1.6945" OD, 1.3900" ID, .3050" Depth		

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**3** 2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1988-82  
 (cont.) L/D Truck VIN Codes "B" 1982, "C" 1983-88, "D" 1987

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
8	Keeper	88-82	VK-225	Exh.; 4 groove	
8	Keeper	88-82	VK-144	Int.; 1 groove; Square cut key groove	
8	Keeper	88-82	VK-144R	Int.; 1 groove; Square cut key groove; Hardened	
8	Keeper, Bulk	88-82	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000	
8	Spring Insert	88-86	259-820B	.030"; Case hardened; Carton of 48	
8	Spring Insert	88-82	259-821B	.060"; Case hardened; Carton of 48	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	88-86	527P Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough	
4	Cast Piston - Individual	88-86	W527P Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.572" CD, .9008" Pin Dia., Flat Head w/1 valve trough	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	88-87	E-454K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Premium Set	86	E-418K Std-.50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM	
1	Premium Set	86	E-454K Std-.50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM	
1	Premium Set	85-82	E-418K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	88-87	E-454X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	86	E-418X Std-.50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM	
1	Standard Set	86	E-454X Std-.50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM	
1	Standard Set	85-82	E-418X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	88-87	WE-454K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	86	WE-418K Std-.50-.75-1.00MM	VIN Code "C"; 2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	86	WE-454K Std-.50-.75-1.00MM	VIN Code "D"; 2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	85-82	WE-418K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	88-82	6678MA Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
1	Rod Set	88-82	4-3800CPA Std-.25-.50-.75-1.00MM		
4	Rod Pair	88-82	3800CPA Std-.026-.25-.50-.75-1.00MM		
1	Cam Set	88-82	1840M Std Only		
1	Aux. Shaft Set	88-82	1487M		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	88-86	224-4168		
1	Oil Pump	85-82	224-4168S	FWD; w/screen	
1	Screen Assy.	88	224-1268		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	88-82	260-1093	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	
1	Head Bolt Set	88-85	260-2501	Replacement recommended; 11MM Head bolts	
1	Head Bolt Set	85-82	260-2505	Replacement recommended; 10MM Head bolts	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	88-82	381-8050		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
88-87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains	205-869M	205-369M
88-87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		Re-ring	205-869	205-369
86	VIN Code "C"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains	205-681M	205-181M
86	VIN Code "C"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		Re-ring	205-681	205-181
86	VIN Code "D"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains	205-869M	205-369M
86	VIN Code "D"; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.		Re-ring	205-869	205-369
85-82	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains	205-681M	205-181M

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## Dodge Truck (Incl. Minivans and SUV's)

2.2L 135 (2212cc) SOHC L4 (8 Valve), 87.5mm Bore 1988-82 <b>3</b> L/D Truck VIN Codes "B" 1982, "C" 1983-88, "D" 1987 (cont.)						
K I T S	<b>RE-RING KIT (cont.)</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>RE-RING</b>	<b>205-681</b>	<b>205-181</b>	
	85-82	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.				
K I T S	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>MASTER</b>	<b>MKP-869C</b>	<b>MKP-369C</b>	
	88	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-869C</b>	<b>MK-369C</b>	
88	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-869C</b>	<b>505-369C</b>		
2.3L 143 (2346cc) SOHC Turbo-Diesel L4 (8 Valve), 91mm Bore (Mitsubishi Eng.) 1985-83 <b>4</b> L/D Truck VIN Codes "J" 1984-86, "9" 1983, Eng. Code "4D55-T" 1983-86						
B L O C K	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	85	<b>222-91</b>	To 3/85	
	1	Timing Belt	84-83	<b>222-91</b>		
	1	Bal. Shaft Belt	85-83	<b>222-92</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Lifter	83	<b>HT-6000</b> Std Only	Hyd. lash adj.	
	8	Lifter, Bulk	83	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128	
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Keeper	85	<b>VK-232</b>		
	8	Spring Insert	85-83	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Pin Bushing Set	85-83	<b>4-68304Y</b>		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Premium Single Cylinder Set	85-83	<b>WE-596KC</b> Std Only	Check piston grooving before supplying ring set; 1-2.50MM, 1-2.00MM, 1-4.00MM		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	85-83	<b>6593M</b> Std-.25-.50-.75MM			
1	Rod Set	85-83	<b>4-66675P</b> Std-.25-.50-.75-1.00MM			
1	Aux. Shaft Set	85-83	<b>1805M</b>			
2.4L 143.4 (2351cc) SOHC L4 (8 Valve), 86.5mm Bore (Mitsubishi Eng.) 1990 <b>5</b> L/D Truck VIN Codes "G" 1993, "W" 1990-92, Eng. Code "4G64" 1990-93						
V A L V E T R A I N	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	90	<b>222-124</b>		
	1	Timing Belt Tensioner	90	<b>222-105BT</b>		
	1	Timing Belt & Tensioner Set	90	<b>BTS-124</b>		
	1	Bal. Shaft Belt	90	<b>222-159</b>		
	1	Bal. Shaft Belt Tensioner	90	<b>222-161BT</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Lifter	90	<b>HT-6000</b> Std Only	Hyd. lash adj.	
	8	Lifter, Bulk	90	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128	
	1	Prelube	90	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Arm	90	<b>R-958</b>	Exh.	
	1	Rocker Shaft	90	<b>RS-658</b>	Exh.	
	1	Rocker Shaft	90	<b>RS-659</b>	Int.	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Exhaust	90	<b>V-2660</b> Std Only	Chrome plated stem; 1.4960" Head Dia., .3126" Stem Dia., 4.1410" O.A.L.	
	4	Intake	90	<b>V-2661</b> Std Only	Chrome plated stem; 1.8110" Head Dia., .3140" Stem Dia., 4.1909" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Guide	90	<b>VG-714</b>	Exh.; .3160" ID, 2.0500" O.A.L.	
	4	Guide	90	<b>VG-715</b>	Int.; .3155" ID, 1.8500" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	90	<b>VS-1461</b>	Exh. & Int.; 1.9600" Free Height		
8	Spring, Bulk	90	<b>VS-1461B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Valve Stem Seal	90	<b>ST-2037</b>	Int.; Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Int.	90	<b>245-1875-51</b> Std Only	1.8820" OD, 1.5750" ID, .3170" Depth		

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# Dodge Truck (Incl. Minivans and SUV's)

**5** 2.4L 143.4 (2351cc) SOHC L4 (8 Valve), 86.5mm Bore (Mitsubishi Eng.) 1990  
(cont.) L/D Truck VIN Codes "G" 1993, "W" 1990-92, Eng. Code "4G64" 1990-93

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90	VK-232	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90	12958P Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.5mm CD, 21.0mm Pin Dia., Flat Head w/3 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-524KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90	E-524X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90	WE-524KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	5103M Std-.25-.50-.75MM	
1	Rod Set	90	4-3485CP Std-.25-.50-.75MM	
1	Cam Set	90	1858M Std Only	
1	Bal. Shaft Set	90	1810M	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-43601	
1	Screen Assy.	90	224-14282	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1709	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90	381-8099	
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
90	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6335
		Re-ring w/Mains		205-6335M

**6** 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-87  
L/D Truck VIN Codes "G" 1989-95, "K" 1987-95

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Bal. Shaft Chain	90-87	222-2SR60	60 Links
1	Bal. Shaft Chain Guide	90-87	222-297GP	
1	Timing Belt	90-89	222-153	
1	Timing Belt	88	222-132	
1	Timing Belt	87	222-114	
1	Timing Belt Tensioner	90-89	222-192BT	
1	Timing Belt Tensioner	88-87	222-191BT	
1	Timing Belt & Tensioner Set	90-89	BTS-153	
1	Bal. Shaft Belt Tensioner	90-87	222-1298BT	VIN Code "K"
1	Crank Sprocket	90-87	223-640	36 Teeth
1	Bal. Shaft Sprocket	90-87	223-642	18 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-785	
1	Camshaft	90-88	CS-922	w/.020" O/S journals
8	Lifter	90-87	HT-2105 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-87	HT-2105B Std Only	Hyd. lash adj.; Carton of 247
1	Prelube	90-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 55-403B
1	Cam/Flwr. Kit	90-88	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	90-88	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	KCT-785G	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-132, (1) 55-403B
1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Flwr./Timing Kit	88	KCT-785H	Incl. (1) CS-785, (8) R-951, (1) 222-132, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	88	KCT-785K	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-132, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-88	R-951	
8	Arm	87	R-912	
8	Arm, Bulk	90-88	R-951B	Carton of 32
8	Arm, Bulk	87	R-912B	Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-87	V-2427 Std-15	4 groove; Chrome plated stem; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.

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## Dodge Truck (Incl. Minivans and SUV's)

2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-87 **6**

L/D Truck VIN Codes "G" 1989-95, "K" 1987-95 (cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
4	Exhaust, Bulk	90-87	<b>V-2427B</b> Std-15	4 groove; Chrome plated stem; Carton of 25; 1.3937" Head Dia., .3117" Stem Dia., 4.5210" O.A.L.
4	Intake	90-87	<b>V-2428</b> Std Only	Chrome plated stem; 1.5980" Head Dia., .3127" Stem Dia., 4.4980" O.A.L.
<b>VALVE TRAIN</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Guide	90-87	<b>VG-700</b>	Exh.; .008" O/S OD; .3145" ID, 1.6930" O.A.L.
4	Guide	90-87	<b>VG-870</b>	Exh.; .3145" ID, 1.6930" O.A.L.
4	Guide	90-87	<b>VG-701</b>	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.
4	Guide	90-87	<b>VG-869</b>	Int.; .3145" ID, 1.5750" O.A.L.
4	Guide, Bulk	90-87	<b>VG-700B</b>	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.
4	Guide, Bulk	90-87	<b>VG-701B</b>	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.
<b>VALVE TRAIN</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	90-88	<b>VS-1457</b>	2.2250" Free Height
8	Spring, Bulk	90-88	<b>VS-1457B</b>	Carton of 250; 2.2250" Free Height
<b>VALVE TRAIN</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90-87	<b>MV-1919</b>	Umbrella type; Viton®
<b>VALVE TRAIN</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exh.	90-87	<b>245-1500-63</b> Std Only	1.5070" OD, 1.2100" ID, .3450" Depth
4	Int.	90-87	<b>245-1687-51</b> Std Only	1.6945" OD, 1.3900" ID, .3050" Depth
<b>VALVE TRAIN</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Keeper	90-87	<b>VK-225</b>	Exh.; 4 groove
8	Keeper	90-87	<b>VK-144</b>	Int.; 1 groove; Square cut key groove
8	Keeper	90-87	<b>VK-144R</b>	Int.; 1 groove; Square cut key groove; Hardened
8	Keeper, Bulk	90-87	<b>VK-144B</b>	Int.; 1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	90-87	<b>259-820B</b>	.030"; Case hardened; Carton of 48
8	Spring Insert	90-87	<b>259-821B</b>	.060"; Case hardened; Carton of 48
<b>BLOCK</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	90-89	<b>571CP</b> Std.-50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .147" deep x 3.015" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	88-87	<b>533P</b> Std.-50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.
4	Cast Piston - Individual	90-89	<b>W571CP</b> Std.-50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .147" deep x 3.015" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	88-87	<b>W533P</b> Std.-50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.573" CD, .9008" Pin Dia., Recessed Head .188" deep x 2.610" dia. w/2 valve reliefs - 8.1:1 C.R.
<b>BLOCK</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-87	<b>E-454K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-87	<b>E-454X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-87	<b>WE-454K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
<b>BLOCK</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-87	<b>6678MA</b> Std.-25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-87	<b>4-3800CPA</b> Std.-25-.50-.75-1.00MM	
4	Rod Pair	90-87	<b>3800CPA</b> Std.-026-.25-.50-.75-1.00MM	
1	Cam Set	90-87	<b>1840M</b> Std Only	
1	Aux. Shaft Set	90-87	<b>1487M</b>	
1	Bal. Shaft Set	90-87	<b>1792MSEMI</b>	
<b>BLOCK</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90-87	<b>224-4168</b>	
1	Screen Assy.	90-89	<b>224-1568</b>	Exc. Dakota
<b>BLOCK</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-89	<b>260-1425</b>	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-88	<b>260-1427</b>	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-88	<b>260-1616</b>	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.

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# Dodge Truck (Incl. Minivans and SUV's)

**6** 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-87  
 (cont.) L/D Truck VIN Codes "G" 1989-95, "K" 1987-95

QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87	260-1200	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-87	260-2501	Replacement recommended; 11MM Head bolts
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-87	381-8050	
RE-RING KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6093M	205-1093M
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6093	205-1093
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6097M	205-1097M
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6097	205-1097
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6205M	205-1205M
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6205	205-1205
88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6097M	205-1097M
88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6097	205-1097
88	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6205M	205-1205M
88	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6205	205-1205
87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-870M	205-370M
87	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Premium valve stem seals incl.	Re-ring	205-870	205-370
OVERHAUL KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6093C MK-6093C	MKP-1093C MK-1093C
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6093C	505-1093C

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# Dodge Truck (Incl. Minivans and SUV's)

2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-87 **6**  
L/D Truck VIN Codes "G" 1989-95, "K" 1987-95 (cont.)

	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	
YEARS	DESCRIPTION				
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	-----	MK-1205A	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6205A MK-6205A	MKP-1205A -----	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	-----	505-1205A	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6205B	505-1205B	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6205B MK-6205B	MKP-1205B -----	
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6208	-----	
90-89	w/One-piece molded rubber valve cover gskt.; Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6208	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6209	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6209	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6210	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6210	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-7057	-----	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-7058	MK-2058	
90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master	MKP-7059	MKP-2059	

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# Dodge Truck (Incl. Minivans and SUV's)

**6** 2.5L 153 (2507cc) SOHC L4 (8 Valve), 87.5mm Bore 1990-87  
 (cont.) L/D Truck VIN Codes "G" 1989-95, "K" 1987-95

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90-89	w/Multi-piece valve cover gskt.; Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-7059	505-2059	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-7060	----	
	90-89	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	MKP-7060	----	
	88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	MKP-6097A MK-6097A	MKP-1097A MK-1097A	
	88	w/Multi-piece valve cover gskt.; Head bolts incl.; Exh. pipe packing not incl.; Rear cam plug not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-6097A	505-1097A	

**7** 2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89  
 L/D Truck VIN Code "J" 1989-90

V A L V E	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E
	1	Timing Belt	90-89	222-153		
	1	Timing Belt Tensioner	90-89	222-192BT		
	1	Timing Belt & Tensioner Set	90-89	BTS-153		
	1	Crank Sprocket	90-89	223-640	36 Teeth	
	1	Bal. Shaft Sprocket	90-89	223-642	18 Teeth	
V A L V E	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E
	1	Camshaft	90-89	CS-922	w/.020" O/S journals	
	8	Lifter	90-89	HT-2105	Std Only Hyd. lash adj.	
	8	Lifter, Bulk	90-89	HT-2105B	Std Only Hyd. lash adj.; Carton of 247	
	1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E
	1	Cam/Flwr. Kit	90-89	KC-785A	Incl. (1) CS-785, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Flwr. Kit	90-89	KC-785C	Hyd.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	90-89	KCT-785	Hyd.; Incl. (1) CS-785, (8) HT-2105, (1) 222-153, (1) 55-403B	
	1	Cam/Flwr./Timing Kit	90-89	KCT-785A	Incl. (1) CS-785, (8) R-951, (1) 222-153, (1) 55-403B	
	1	Cam/Lifter/Flwr./Timing Kit	90-89	KCT-785C	Hyd. lash adj.; Incl. (1) CS-785, (8) HT-2105, (8) R-951, (1) 222-153, (1) 55-403B	
V A L V E	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	V A L V E
	8	Arm, Bulk	90-89	R-951B	Carton of 32	
V A L V E	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	V A L V E
	4	Intake	90-89	V-2434	Std Only Chrome plated stem; 1.5984" Head Dia., .3127" Stem Dia., 4.4990" O.A.L.	
V A L V E	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	V A L V E
	4	Guide	90-89	VG-870	Exh.; .3145" ID, 1.6930" O.A.L.	
	4	Guide	90-89	VG-701	Int.; .008" O/S OD; .3145" ID, 1.5750" O.A.L.	
	4	Guide	90-89	VG-869	Int.; .3145" ID, 1.5750" O.A.L.	
	4	Guide, Bulk	90-89	VG-700B	Exh.; .008" O/S OD; Carton of 50; .3145" ID, 1.6930" O.A.L.	
	4	Guide, Bulk	90-89	VG-701B	Int.; .008" O/S OD; Carton of 50; .3145" ID, 1.5750" O.A.L.	
V A L V E	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	V A L V E
	8	Spring, Bulk	90-89	VS-1457B	Carton of 250; 2.2250" Free Height	
V A L V E	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E

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# Dodge Truck (Incl. Minivans and SUV's)

2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89 **7**  
L/D Truck VIN Code "J" 1989-90 (cont.)

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	90-89	<b>245-1500-63</b> Std Only	1.5070" OD, 1.2100" ID, .3450" Depth	
4	Int.	90-89	<b>245-1687-51</b> Std Only	1.6945" OD, 1.3900" ID, .3050" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
8	Keeper	90-89	<b>VK-225</b>	Exh.; 4 groove	
8	Keeper	90-89	<b>VK-144</b>	Int.; 1 groove; Square cut key groove	
8	Keeper	90-89	<b>VK-144R</b>	Int.; 1 groove; Square cut key groove; Hardened	
8	Keeper, Bulk	90-89	<b>VK-144B</b>	Int.; 1 groove; Square cut key groove; Carton of 1000	
8	Spring Insert	90-89	<b>259-820B</b>	.030"; Case hardened; Carton of 48	
8	Spring Insert	90-89	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	90-89	<b>H579P</b> Std.-50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .300" deep x 2.865" dia. w/2 valve reliefs	
4	Cast Piston - Individual	90-89	<b>WH579P</b> Std.-50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.337" CD, .9008" Pin Dia., Recessed Head .300" deep x 2.865" dia. w/2 valve reliefs	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-89	<b>E-453K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	90-89	<b>WE-453K</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-89	<b>6678MA</b> Std.-25-.50-.75MM	<b>A-Series aluminum bearings</b>	
1	Rod Set	90-89	<b>4-3800CPA</b> Std.-25-.50-.75-1.00MM		
4	Rod Pair	90-89	<b>3800CPA</b> Std.-026-.25-.50-.75-1.00MM		
1	Aux. Shaft Set	90-89	<b>1487M</b>		
1	Bal. Shaft Set	90-89	<b>1792MSEMI</b>		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-89	<b>224-4168</b>		
1	Screen Assy.	90-89	<b>224-1568</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-89	<b>260-1426</b>	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	90-89	<b>260-1549</b>	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	90-89	<b>260-2501</b>	Replacement recommended; 11MM Head bolts	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-89	<b>381-8050</b>		
RE-RING KIT				<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-6094M</b>	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6094</b>	----
OVERHAUL KIT				<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		<b>MKP-6094A</b> <b>MK-6094A</b>	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		<b>505-6094A</b>	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		<b>BKP-6218</b>	----
90-89	Head bolts incl.; Rear cam plug incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		<b>BK-6218</b>	----

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# Dodge Truck (Incl. Minivans and SUV's)

**7 2.5L 153 (2507cc) SOHC Turbo L4 (8 Valve), 87.5mm Bore 1990-89**  
 (cont.) L/D Truck VIN Code "J" 1989-90

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90-89	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	<b>BKP-6219</b>	----	
	90-89	Head bolts not incl.; Exh. pipe packing not incl.; Rear cam plug incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	<b>BK-6219</b>	----	

**8 2.6L 156 (2555cc) SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1989-79**  
 L/D Truck VIN Codes "E" 1984-89, "G" 1984-87, "W" 1979-80, "7" 1981-83, Eng. Code "G54B" 1979-89

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Complete Set	89-79	<b>KT-1013S</b>	
	1	Bal. Shaft Set	89-79	<b>KT-1014S</b>	Incl. sprockets, chain & guides	
	1	Timing Chain	89-79	<b>222-3DR102</b>	Double rlr.; 102 Links	
	1	Timing Chain Tensioner	89-79	<b>222-49CT</b>		
	1	Timing Chain Guide	89-79	<b>222-31GP</b>	Slack Side	
	1	Timing Chain Guide	89-79	<b>222-30GP</b>	Tension Side	
	1	Bal. Shaft Chain Guide	89-79	<b>222-51GP</b>	Lower	
	1	Bal. Shaft Chain Guide	89-79	<b>222-64GP</b>	R.H.	
	1	Crank Sprocket	89-79	<b>223-407</b>	Outer; Single row; 34 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Camshaft	89-88	<b>CS-810</b>	
	1	Camshaft	87-85	<b>CS-810</b>	VIN Code "E"; w/Hyd. lash adj.	
	1	Camshaft	87-84	<b>CS-769</b>	VIN Code "G"; Must use w/new water pump drive pulley O.E. No. MD025669; w/Mech. lash adjusters	
	8	Lifter	89-85	<b>HT-6000</b> Std Only	Hyd. lash adj.	
	8	Lifter, Bulk	89-85	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128	
	1	Prelube	89-81	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		4	Arm	89-85	<b>R-958</b>	
V A L V E T R A I N	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		4	Exhaust	89-85	<b>V-2313</b> Std Only	
	4	Exhaust	84	<b>V-2313</b> Std Only	From 6/84; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.	
	4	Intake	89-85	<b>V-2312</b> Std Only	1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.	
	4	Intake	84	<b>V-2312</b> Std Only	From 6/84; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.	
V A L V E T R A I N	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		4	Guide	89-79	<b>VG-714</b>	
	4	Guide	89-79	<b>VG-715</b>	Int.; .3155" ID, 1.8500" O.A.L.	
V A L V E T R A I N	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		8	Spring	89-85	<b>VS-1461</b>	
	8	Spring, Bulk	89-85	<b>VS-1461B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height	
V A L V E T R A I N	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		8	Valve Stem Seal	89-79	<b>ST-2083</b>	
V A L V E T R A I N	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		4	Int.	89-81	<b>245-1875-51</b> Std Only	
	4	Exh.	80-79	<b>245-1500-62</b> Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
	4	Int.	80-79	<b>245-1750-61</b> Std Only	1.7570" OD, 1.4450" ID, .3100" Depth	
V A L V E T R A I N	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		8	Keeper	89-85	<b>VK-232</b>	
	8	Keeper	84	<b>VK-232</b>	From 6/84	
	8	Spring Insert	89-79	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	B L O C K
		4	Cast Piston	89-84	<b>H605P</b> Std.-50-.75-1.00- 1.50MM	
	4	Cast Piston	87-84	<b>12220P.75MM</b> .75-1.00MM	VIN Code "G"; Use w/E-439KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.2mm CD, 22.0mm Pin Dia., Recessed Head .200" deep x 2.670" dia.	
	4	Cast Piston - Individual	89-84	<b>WH605P</b> Std.-50-.75-1.00- 1.50MM	VIN Code "E"; Use w/WE-439KC ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Flat Head	

(continued on next page)

## Dodge Truck (Incl. Minivans and SUV's)

**2.6L 156 (2555cc) SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1989-79 8**

**L/D Truck VIN Codes "E" 1984-89, "G" 1984-87, "W" 1979-80, "7" 1981-83, Eng. Code "G54B" 1979-89 (cont.)**

BLOCK	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	89-84	<b>E-439KC</b> Std.-50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM		
	1	Premium Set	83-81	<b>E-425KC1.00MM</b> 1.00MM	2-2.00MM, 1-4.00MM		
	1	Premium Set	80	<b>E-425KC1.00MM</b> 1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM		
	1	Standard Set	89-84	<b>E-439X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM		
	1	Standard Set	83-81	<b>E-425X1.00MM</b> 1.00MM	2-2.00MM, 1-4.00MM		
	1	Standard Set	80	<b>E-425X1.00MM</b> 1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM		
	4	Premium Single Cylinder Set	89-84	<b>WE-439KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM		
	4	Premium Single Cylinder Set	83-81	<b>WE-425KC</b> Std.-50-.75-1.00MM	2-2.00MM, 1-4.00MM		
	4	Premium Single Cylinder Set	80	<b>WE-425KC</b> Std.-50-.75-1.00MM	w/Shallow oil ring groove; Check piston grooving before supplying ring set; 2-2.00MM, 1-4.00MM		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Main Set	89-79	<b>6618M</b> Std.-25-.50-.75MM			
1	Rod Set	89-79	<b>4-66675P</b> Std.-25-.50-.75-1.00MM				
1	Cam Set	89-79	<b>1858M</b> Std Only				
1	Aux. Shaft Set	89-79	<b>1805M</b>	Rear bal. shaft; Aux. shaft			
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Oil Pump	89-79	<b>224-41914</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	89-84	<b>260-1155</b>	VIN Code "E"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Kit Gasket Set	87-84	<b>260-1156</b>	VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Kit Gasket Set	83-81	<b>260-1155</b>	VIN Code "7"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Head Bolt Set	89-79	<b>260-2513</b>	Replacement recommended			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	89-79	<b>381-8051</b>				
KITS	<b>RE-RING KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>					
	89-88	VIN Code "E"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			<b>205-750</b> <b>205-750M</b>	<b>205-250</b> <b>205-250M</b>
	87-84	VIN Code "G"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			<b>205-747</b> <b>205-747M</b>	<b>205-247</b> <b>205-247M</b>
	87-84	VIN Code "E"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			<b>205-750</b> <b>205-750M</b>	<b>205-250</b> <b>205-250M</b>
	83-81	VIN Code "7"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			<b>205-745</b> <b>205-745M</b>	<b>205-245</b> <b>205-245M</b>
	<b>OVERHAUL KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>					
	87-85	VIN Code "G"; Exh. pipe packing not incl.; Must use w/new water pump drive pulley O.E. No. MD025669; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons			<b>MKP-747C</b> <b>MK-747C</b>	<b>-----</b> <b>MK-247C</b>
	84	VIN Code "G"; Exh. pipe packing not incl.; Must use w/new water pump drive pulley O.E. No. MD025669; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons			<b>MKP-747C</b> <b>MK-747C</b>	<b>-----</b> <b>MK-247C</b>

**2.8L 170 OHV L6, 3.4063" Bore 1969-60 9**

**L/D Truck VIN Codes "A" 1966-69, "6" 1968-69**

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	69-61	<b>KT3-495SA</b>	Incl. (1) KT3-495SA
1	Timing Chain	69-61	<b>222-495</b>	Silent type; 50 Links
1	Crank Sprocket	69-61	<b>223-291</b>	Use w/silent type chain; 19 Teeth

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# Dodge Truck (Incl. Minivans and SUV's)

**9** 2.8L 170 OHV L6, 3.4063" Bore 1969-60  
 (cont.) L/D Truck VIN Codes "A" 1966-69, "6" 1968-69

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-61	CS-380	
12	Lifter	69-61	AT-2084 Std Only	Dumbbell shaped mech.
12	Lifter, Bulk	69-61	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117
1	Prelube	69-61	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-61	KC-380	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	69-61	RP-3079	8.5220" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
1	Rocker Shaft	69-61	RS-620	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	69-61	V-4093 Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	69-61	V-4093B15 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Intake	69-61	V-1434 Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	69-61	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	69-61	VS-510	2.0000" Free Height
12	Spring, Bulk	69-61	VS-510B	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	69-61	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	69-61	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
6	Valve Stem Seal	69-63	MV-1918	Exh.; Umbrella type; Viton®
6	Valve Stem Seal	69-63	MV-1771C	Int.; Umbrella type; Polyacrylate
6	Valve Stem Seal	62-61	MV-1599C	Int.; Umbrella type; Rubber
6	Valve Stem Seal Bulk	69-63	MV-1771	Int.; Umbrella type; Carton of 100; Polyacrylate
12	Valve Stem Seal Bulk	69-61	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	69-61	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
6	Valve Stem Seal Bulk	62-61	MV-1599	Int.; Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	69-61	245-1437-1 Std Only	1.4420" OD, 1.2500" ID, .2160" Depth
6	Int.	69-61	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	69-61	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	69-61	VK-174	Exh.; 4 groove
12	Keeper	69-61	VK-174R	Exh.; 4 groove; Hardened
12	Keeper	69-61	VK-66	Int.; 2 groove
12	Keeper	69-61	VK-66R	Int.; 2 groove; Hardened
12	Spring Insert	69-61	259-103C	.015"; ID 1.030"; Carton of 100
12	Spring Insert	69-61	259-103B	.030"; ID 1.030"; Carton of 100
12	Spring Insert	69-61	259-103BRS	.030"; ID 1.030"; Carton of 500
12	Spring Insert	69-61	259-103A	.060"; ID 1.030"; Carton of 100
12	Spring Insert	69-61	259-103ARS	.060"; ID 1.030"; Carton of 500
6	Rotocap	69-61	RC-78S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	69-61	244NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Cast Piston - Individual	69-61	W244NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	69-61	E-196K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	69-61	E-196X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	69-61	WE-196K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	69-61	WE-196X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-61	4092M Std-10-20-30	
1	Rod Set	69-61	6-2375CP Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable
6	Rod Pair	69-61	2375CP Std-10-20-30-40	
1	Cam Set	69-61	1454M Std Only	

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

<b>2.8L 170 OHV L6, 3.4063" Bore 1969-60 9</b> <b>L/D Truck VIN Codes "A" 1966-69, "6" 1968-69 (cont.)</b>						
BLOCK	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	69-61	<b>224-4165C</b>	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump	
	1	Oil Pump	69-61	<b>224-4165V</b>	High Volume; Will replace 5 bolt pump	
	1	Screen Assy.	69	<b>224-14157</b>		
	1	Screen Assy.	68	<b>224-14157</b>	From Ser. No. 2098000	
BLOCK	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	69-60	<b>260-1004</b>	Premium valve stem seals incl.	
BLOCK	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	69-60	<b>381-8012</b>		
KITS	<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	69-61	Premium valve stem seals incl.	Re-ring		<b>205-602</b>	<b>205-102</b>
			Re-ring w/Mains		<b>205-602M</b>	<b>205-102M</b>
	<b>OVERHAUL KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
69-61	Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master		<b>MKP-602A</b>	<b>MKP-102A</b>	
		Master w/o Pistons		<b>MK-602A</b>	<b>MK-102A</b>	
69-61	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains		<b>505-602A</b>	<b>505-102A</b>	
<b>3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-87 10</b> <b>L/D Truck VIN Codes "S" 1989-92, "3" 1987-2000, Eng. Code "6G72" 1987-2000</b>						
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	90-87	<b>222-139</b>		
	1	Timing Belt Tensioner	90-87	<b>222-195BT</b>		
	1	Timing Belt & Tensioner Set	90-87	<b>BTS-139</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	90	<b>CS-865</b>	L.H. Front; 16" length w/gear; Hyd. rlr.	
	1	Camshaft	90	<b>CS-864</b>	R.H. Rear; 14.5" length; Hyd. rlr.	
	1	Camshaft	89-87	<b>CS-820</b>	L.H. Front; 16" length w/gear	
	1	Camshaft	89-87	<b>CS-822</b>	R.H. Rear; 14.5" length	
	12	Lifter	90-87	<b>HT-6000</b> Std Only	Hyd. lash adj.	
	12	Lifter, Bulk	90-87	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128	
	1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
VALVE TRAIN	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	90	<b>KC-865</b>	Front; Incl. 16" L.H. Front rlr. camshaft w/gear; Incl. (1) CS-865, (6) HT-6000, (1) 55-403B	
	1	Cam/Lifter Kit	90	<b>KC-866</b>	Front & Rear; Incl. 14.5" R.H. Rear & 16" L.H. Front rlr. camshafts w/gear; Incl. (1) CS-864, (1) CS-865, (6) HT-6000, (1) 55-403B	
1	Cam/Lifter Kit	90	<b>KC-864</b>	Rear; Incl. 14.5" R.H. Rear rlr. camshaft w/gear; Incl. (1) CS-864, (6) HT-6000, (1) 55-403B		
VALVE TRAIN	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Arm	90-87	<b>R-1003</b>	w/Mech. lifters	
	12	Arm	90-87	<b>R-1122</b>	w/Rlr. lifters	
	1	Rocker Shaft	90-87	<b>RS-699</b>	Exh.	
1	Rocker Shaft	90-87	<b>RS-700</b>	Int.		
VALVE TRAIN	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exhaust	90-87	<b>V-3952</b> Std Only	Nitrided stem; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.	
	6	Exhaust, Bulk	90-87	<b>V-3952B</b> Std Only	1 groove; Nitrided stem; Carton of 25; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.	
	6	Intake	90-87	<b>V-2563</b> Std Only	Nitrided stem; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.	
6	Intake, Bulk	90-87	<b>V-2563B</b> Std Only	Nitrided stem; Carton of 25; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.		
VALVE TRAIN	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Guide	90-87	<b>VG-13152</b>	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.	
	6	Guide	90-87	<b>VG-1315</b>	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.	
	6	Guide	90-87	<b>VG-710</b>	Int.; .3155" ID, 1.7280" O.A.L.	
6	Guide, Bulk	90-87	<b>VG-1315B</b>	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.		
VALVE TRAIN	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Spring	90-87	<b>VS-1461</b>	Exh. & Int.; 1.9600" Free Height	
12	Spring, Bulk	90-87	<b>VS-1461B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height		

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# Dodge Truck (Incl. Minivans and SUV's)

**10 3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-87**  
 (cont.) L/D Truck VIN Codes "S" 1989-92, "3" 1987-2000, Eng. Code "6G72" 1987-2000

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-87	ST-2037	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-87	245-1562-69 Std Only	1.5695" OD, 1.2190" ID, .3170" Depth
6	Int.	90-87	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-87	VK-232	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-87	H834CP Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	90-87	WH834CP Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90-87	6KH834CP Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	E-528KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-87	E-528X Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-87	WE-528KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-87	7090M Std.-25-.50-.75MM	
1	Thrust Washer Set	90-87	1736AF Std Only	Position 3
1	Rod Set	90-87	6-1735CP Std.-25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-89	224-43653	VIN Code "S"
1	Oil Pump	90-87	224-42000	VIN Code "3"
1	Pump Repair Kit	90-87	224-51385	FWD & RWD
1	Screen Assy.	90-87	224-15048	VIN Code "3"
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	260-1839	RWD; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-89	260-1432	VIN Code "S"; Exc. Ram 50; Upper int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-87	260-1432	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-87	260-2516	Replacement recommended
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-87	381-8090	
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-89	VIN Code "S"; Exc. Ram 50; Upper int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6102 205-6102M	205-1102 205-1102M
90-89	RWD; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6882 205-6882M	205-1882 205-1882M
90-87	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6102 205-6102M	205-1102 205-1102M
<b>OVERHAUL KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	BK-6254	----
90	VIN Code "3"; Head bolts not incl.; Freeze plugs not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6329A MK-6329A 505-6329A	MKP-1329A MK-1329A 505-1329A
90-89	VIN Code "S"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block w/Pump & Freeze Plugs Block	BKP-6301 BK-6301	----

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**3.0L 181.1 (2972cc) SOHC V6 (12 Valve), 91.1mm Bore (Mitsubishi Eng.) 1990-87 10**  
**L/D Truck VIN Codes "S" 1989-92, "3" 1987-2000, Eng. Code "6G72" 1987-2000 (cont.)**

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>		
	90-87	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block w/Pump & Freeze Plugs	<b>BKP-6254</b> -----
	89	VIN Code "S"; Exc. Ram 50; Upper int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	<b>BK-6254</b> -----
	89	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	<b>BK-6254</b> -----
	89	VIN Code "S"; Exc. Ram 50; Upper int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	<b>BKP-6256</b> -----
	88-87	VIN Code "3"; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	<b>BK-6254</b> -----

**3.2L 198 OHV L6, 3.4063" Bore 1973-70 11**  
**L/D Truck VIN Code "A" 1970-73**

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	3 Piece Set	73-70	<b>KT3-495SA</b>	Incl. (1) KT3-495SA
	1	Timing Chain	73-70	<b>222-495</b>	Silent type; 50 Links
	1	Crank Sprocket	73-70	<b>223-291</b>	Use w/silent type chain; 19 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	73-70	<b>CS-380</b>	
	12	Lifter	73-70	<b>AT-2084</b> Std Only	Dumbbell shaped mech.
	12	Lifter, Bulk	73-70	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117
	1	Prelube	73-70	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	73-70	<b>KC-380</b>	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Push Rod	71-70	<b>RP-3036</b>	9.9540" O.A.L.
	12	Push Rod, Bulk	71-70	<b>BRP-3036</b>	Carton of 100; 9.9540" O.A.L.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Rocker Shaft	71-70	<b>RS-620</b>	
	12	Adj. Screw	71-70	<b>MR-1933</b>	Engs. w/Mech. lifters
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	73-70	<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
	6	Exhaust, Bulk	73-70	<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
	6	Intake	73-70	<b>V-1434</b> Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	73-71	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.
	12	Guide	73-70	<b>VG-5087</b>	Exh. & Int.; Bronze; .3740" ID, 2.5000" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	73-70	<b>VS-510</b>	2.0000" Free Height
	12	Spring, Bulk	73-70	<b>VS-510B</b>	Carton of 250; 2.0000" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Valve Stem Seal	73-70	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
	6	Valve Stem Seal	73-70	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
	6	Valve Stem Seal	73-70	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
	12	Valve Stem Seal Bulk	73-70	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	6	Valve Stem Seal Bulk	73-70	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exh.	73-70	<b>245-1437-1</b> Std Only	1.4420" OD, 1.2500" ID, .2160" Depth
	6	Int.	73-70	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
	6	Int.	73-70	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Keeper	73-70	<b>VK-174</b>	Exh.; 4 groove
	12	Keeper	73-70	<b>VK-174R</b>	Exh.; 4 groove; Hardened
	12	Keeper	73-70	<b>VK-66</b>	Int.; 2 groove

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# Dodge Truck (Incl. Minivans and SUV's)

## 11 3.2L 198 OHV L6, 3.4063" Bore 1973-70

(cont.) L/D Truck VIN Code "A" 1970-73

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
12	Keeper	73-70	VK-66R	Int.; 2 groove; Hardened	
12	Spring Insert	73-70	259-103C	.015"; ID 1.030"; Carton of 100	
12	Spring Insert	73-70	259-103B	.030"; ID 1.030"; Carton of 100	
12	Spring Insert	73-70	259-103BRS	.030"; ID 1.030"; Carton of 500	
12	Spring Insert	73-70	259-103A	.060"; ID 1.030"; Carton of 100	
12	Spring Insert	73-70	259-103ARS	.060"; ID 1.030"; Carton of 500	
6	Rotocap	73-70	RC-78S		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	73-70	244NP	Std-20-30-40-60-80 Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
6	Cast Piston - Individual	73-70	W244NP	Std-20-30-40-60-80 Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	73-70	E-196K	Std-20-30-40-60 2-5/64, 1-3/16	
1	Standard Set	73-70	E-196X	Std-20-30-40-60 2-5/64, 1-3/16	
6	Premium Single Cylinder Set	73-70	WE-196K	Std-20-30-40-60 2-5/64, 1-3/16	
6	Standard Single Cylinder Set	73-70	WE-196X	Std-20-30-40-60 2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	73-70	4092M	Std-10-20-30	
1	Rod Set	73-70	6-2375CP	Std-10-20-30-40 6-2375CA 60 avail. as unplated & resizeable	
6	Rod Pair	73-70	2375CP	Std-10-20-30-40	
1	Cam Set	73-70	1454M	Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	73-70	224-4165C	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump	
1	Oil Pump	73-70	224-4165V	High Volume; Will replace 5 bolt pump	
1	Screen Assy.	73-70	224-14157		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	73-70	260-1004	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	73-70	381-8012		
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
73-70	Premium valve stem seals incl.		Re-ring	205-602	205-102
			Re-ring w/Mains	205-602M	205-102M
OVERHAUL KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
73-70	Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump		Master	MKP-602A	MKP-102A
73-70	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump		Master w/o Pistons	MK-602A	MK-102A
73-70	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump		Master w/o Rods & Mains	505-602A	505-102A

BLOCK

BLOCK

KITS

KITS

## 12 3.3L 201 (3302cc) OHV V6 (12 Valve), 93mm Bore 1990

L/D Truck VIN Codes "G" 1998-2001 (Flex Fuel), "R" 1990-2008, "S" 2004 (Flex Fuel), "U" 1994-96 (Flex Fuel), "3" 2001-2008 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	KT3-388S	Incl. (1) 222-388, (1) 223-715, (1) 223-788
1	Timing Chain	90	222-388	64 Links
1	Crank Sprocket	90	223-715	20 Teeth
1	Cam Sprocket	90	223-788	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-1503	
12	Lifter	90	HT-2269	Std Only Hyd. rlr.
12	Lifter, Bulk	90	HT-2269B	Std Only Hyd. rlr.; Carton of 117
1	Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	KC-1503	Hyd. rlr.; Incl. (1) CS-1503, (12) HT-2269, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90	RP-3279	5.1160" O.A.L.
12	Push Rod, Bulk	90	BRP-3279	Carton of 100; 5.1160" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	90	R-1094	
2	Rocker Shaft	90	RS-725	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90	V-2558	Std Only Chrome plated stem; 1.4760" Head Dia., .3116" Stem Dia., 4.9740" O.A.L.

VALVE TRAIN

VALVE TRAIN

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## Dodge Truck (Incl. Minivans and SUV's)

**3.3L 201 (3302cc) OHV V6 (12 Valve), 93mm Bore 1990 12**  
**L/D Truck VIN Codes "G" 1998-2001 (Flex Fuel), "R" 1990-2008, "S" 2004 (Flex Fuel), "U" 1994-96 (cont.)**  
**(Flex Fuel), "3" 2001-2008 (Flex Fuel)**

<b>QTY</b>	<b>VALVE (cont.)</b> Intake	<b>YEARS</b> 90	<b>PART NO.</b> V-2557 Std Only	<b>DESCRIPTION</b> Chrome plated stem; 1.7913" Head Dia., .3127" Stem Dia., 4.9490" O.A.L.	
<b>QTY</b> 12	<b>VALVE GUIDE</b> Guide	<b>YEARS</b> 90	<b>PART NO.</b> VG-910	<b>DESCRIPTION</b> Exh. & Int.; .3155" ID, 2.2750" O.A.L.	
<b>QTY</b> 12	<b>VALVE SPRING</b> Spring	<b>YEARS</b> 90	<b>PART NO.</b> VS-1458	<b>DESCRIPTION</b> Exh. & Int.; 1.9000" Free Height	
<b>QTY</b> 12 12	<b>VALVE SEAL</b> Valve Stem Seal Valve Stem Seal	<b>YEARS</b> 90 90	<b>PART NO.</b> ST-2015 MV-1919	<b>DESCRIPTION</b> Exh. & Int.; Positive type; Viton® Exh. & Int.; Umbrella type; Viton®	
<b>QTY</b> 6	<b>VALVE SEAT</b> Exh.	<b>YEARS</b> 90	<b>PART NO.</b> 245-1562-74 Std Only	<b>DESCRIPTION</b> 1.5695" OD, 1.2900" ID, .3240" Depth	
<b>QTY</b> 12 12	<b>VALVE, MISC</b> Keeper Spring Insert	<b>YEARS</b> 90 90	<b>PART NO.</b> VK-225 259-820B	<b>DESCRIPTION</b> Exh.; 4 groove .030"; Case hardened; Carton of 48	
<b>QTY</b> 6	<b>PISTON</b> Cast Piston	<b>YEARS</b> 90	<b>PART NO.</b> 574CP Std.-50-.75-1.00MM	<b>DESCRIPTION</b> Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .9011" Pin Dia., Recessed Head .094" deep - 8.9:1 C.R.; DurOshield® skirt coated piston	
6	Cast Piston - Individual	90	W574CP Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .9011" Pin Dia., Recessed Head .094" deep - 8.9:1 C.R.; DurOshield® skirt coated piston	
<b>QTY</b> 1 6	<b>RINGS</b> Premium Set Premium Single Cylinder Set	<b>YEARS</b> 90 90	<b>PART NO.</b> E-529K Std.-50-.75-1.00MM WE-529K Std.-50-.75MM	<b>DESCRIPTION</b> 2-1.50MM, 1-3.00MM 2-1.50MM, 1-3.00MM	
<b>QTY</b> 1 1 6 1 1	<b>ENGINE BEARINGS</b> Main Set Rod Set Rod Pair Cam Set Cam Set	<b>YEARS</b> 90 90 90 90 90	<b>PART NO.</b> 7278MA Std.-25-.50-.75MM 6-1920RA Std.-25-.50-.75MM 1920RA Std.-25-.50MM 1809M Std Only 1894M Std Only	<b>DESCRIPTION</b> A-Series aluminum bearings A-Series aluminum bearings A-Series aluminum bearings Spec. oil control set	
<b>QTY</b> 1 1	<b>OIL PUMP</b> Pump Repair Kit Screen Assy.	<b>YEARS</b> 90 90	<b>PART NO.</b> 224-51384 224-15051	<b>DESCRIPTION</b> VIN Codes "R" & "3"; Exc. Dodge	
<b>QTY</b> 1	<b>GASKETS</b> Kit Gasket Set	<b>YEARS</b> 90	<b>PART NO.</b> 260-1646	<b>DESCRIPTION</b> Int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	90	260-4030	Upper set incl.	
1	Head Bolt Set	90	260-2520	Replacement recommended	
<b>QTY</b> 1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	<b>YEARS</b> 90	<b>PART NO.</b> 381-8060	<b>DESCRIPTION</b>	
<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b> 90	<b>DESCRIPTION</b> Head bolts not incl.; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6206A</b> <b>205-6206AM</b>	----- -----
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b> 90	<b>DESCRIPTION</b> Head bolts not incl.; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings	Master Master w/o Pistons	<b>MKP-6206A</b> <b>MK-6206A</b>	----- -----
	90	Head bolts not incl.; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6206A</b>	-----
90	Int. manifold gskt. not incl.; Head bolts not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block	<b>BK-6228</b>	-----	
<b>3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.25" Bore 1956-33 13</b> <b>L/D Truck</b>					
<b>QTY</b> 1	<b>TIMING</b> Timing Chain	<b>YEARS</b> 54-41	<b>PART NO.</b> 222-401	<b>DESCRIPTION</b> 48 Links	
<b>QTY</b> 6	<b>VALVE</b> Exhaust	<b>YEARS</b> 56-41	<b>PART NO.</b> V-1351 Std Only	<b>DESCRIPTION</b> 1.4070" Head Dia., .3405" Stem Dia., 4.8410" O.A.L.	

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# Dodge Truck (Incl. Minivans and SUV's)

## 13 3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.25" Bore 1956-33 (cont.) L/D Truck

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Intake	56-41	V-1086 Std Only	1.5310" Head Dia., .3405" Stem Dia., 4.8450" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	56-41	VG-419	Exh.; .3445" ID, 2.8130" O.A.L.
6	Guide	56-41	VG-420	Int.; .3425" ID, 2.8130" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	56-41	VS-304	w/o Rotocaps; 2.0000" Free Height
12	Spring	56-41	VS-506	Use w/Rotocaps; 1.8570" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Int.	56-41	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
6	Int.	56-41	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	56-41	VK-63	2 groove; Round key groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	56-33	37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Cast Piston - Individual	56-33	W37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Pin Bushing	56-33	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	56-33	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	56-33	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	56-33	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	56-41	E-108KC Std-30-60	2-3/32, 2-5/32
1	Standard Set	56-41	E-108X Std-30-40-60	2-3/32, 2-5/32
6	Standard Single Cylinder Set	56-41	WE-108X Std-30	2-3/32, 2-5/32
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	56-33	SL-123M Std Only	3/32" wall, cut to length; Press fit sleeve
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	56-33	415M Std-10-20-30-40	w/M/T
1	Rod Set	56-33	6-9185CP Std-10-20-30-40	
6	Rod Pair	56-33	9185CP Std-10-20-30-40	
1	Cam Set	56-33	1010M Std Only	

## 14 3.6L 217.8 L-HEAD L6 (Dodge/Plymouth), 3.375" Bore 1954-38 L/D Truck

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing	54-38	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	54-38	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	54-38	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	54-38	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	54-38	485M Std-10-20-30-40	
6	Rod Pair	54-38	9560CPA Std-10-20-30-40-50	
1	Cam Set	54-38	1011M Std Only	

## 15 3.7L 225 OHV L6, 3.4063" Bore 1987-60 L/D Truck VIN Codes "B" 1966-80, "C" 1970-71 & 1974-77, "E" 1978 & 1981-83, "H" 1981-87, "M" 1983, "N" 1979-80, "W" 1982, "X" 1970-79, "6" 1968-70

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	87-77	KT3-495SA	w/1 Bbl. Carb.; Incl. (1) KT3-495SA
1	3 Piece Set	76-70	KT3-495SA	w/1 Bbl. Carb.; Incl. (1) KT3-495SA
1	3 Piece Set	69-61	KT3-495SA	Incl. (1) KT3-495SA
1	Timing Chain	87-78	222-495	w/1 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	77-70	222-495	w/1 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	77-70	222-168	w/2 Bbl. Carb.; Double rlr.; 66 Links
1	Timing Chain	69-62	222-168	Double rlr.; 66 Links
1	Timing Chain	69-62	222-495	Silent type; 50 Links
1	Timing Chain	61	222-495	Silent type; 50 Links
1	Crank Sprocket	87-78	223-291	w/1 Bbl. Carb.; Use w/silent type chain; 19 Teeth
1	Crank Sprocket	77-70	223-291	w/1 Bbl. Carb.; Use w/silent type chain; 19 Teeth
1	Crank Sprocket	77-70	223-339	w/2 Bbl. Carb.; Double row; 25 Teeth
1	Crank Sprocket	69-62	223-339	Double row; 25 Teeth
1	Crank Sprocket	69-62	223-291	Use w/silent type chain; 19 Teeth
1	Crank Sprocket	61	223-291	Use w/silent type chain; 19 Teeth

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# Dodge Truck (Incl. Minivans and SUV's)

**3.7L 225 OHV L6, 3.4063" Bore 1987-60 15**

L/D Truck VIN Codes "B" 1966-80, "C" 1970-71 & 1974-77, "E" 1978 & 1981-83, "H" 1981-87, "M" (cont.) 1983, "N" 1979-80, "W" 1982, "X" 1970-79, "6" 1968-70

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	87-81	<b>CS-709</b>	
1	Camshaft	80-61	<b>CS-380</b>	
12	Lifter	87-81	<b>HT-2089</b> Std Only	Hyd.
12	Lifter	80-61	<b>AT-2084</b> Std Only	Dumbbell shaped mech.
12	Lifter, Bulk	87-81	<b>HT-2089B</b> Std Only	Hyd.; Carton of 117
12	Lifter, Bulk	80-61	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117
1	Prelube	87-61	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	87-81	<b>KC-709</b>	Hyd.; Incl. (1) CS-709, (12) HT-2089, (1) 55-403B
1	Cam/Lifter Kit	80-61	<b>KC-380</b>	Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	87-81	<b>RP-3208</b>	9.9850" O.A.L.
12	Push Rod	80-61	<b>RP-3036</b>	9.9540" O.A.L.
12	Push Rod, Bulk	87-81	<b>BRP-3208</b>	Carton of 100; 9.9850" O.A.L.
12	Push Rod, Bulk	80-61	<b>BRP-3036</b>	Carton of 100; 9.9540" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm	87-81	<b>R-893</b>	
12	Arm, Bulk	87-81	<b>R-893B</b>	Carton of 64
1	Rocker Shaft	80-61	<b>RS-620</b>	
12	Adj. Screw	80-61	<b>MR-1933</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	87-79	<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust	78	<b>V-4093</b> Std-15	VIN Code "E"; 1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust	77-74	<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust	73-72	<b>V-4093</b> Std-15	Exc. w/air pump; 1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust	71-61	<b>V-4093</b> Std-15	1.3600" Head Dia., .3715" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	87-79	<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	78	<b>V-4093B15</b> 15	VIN Code "E"; Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	77-74	<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	73-72	<b>V-4093B15</b> 15	Exc. w/air pump; Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Exhaust, Bulk	71-61	<b>V-4093B15</b> 15	Carton of 25; 1.3600" Head Dia., .3865" Stem Dia., 4.7970" O.A.L.
6	Intake	87-61	<b>V-1434</b> Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	87-61	<b>VG-5087</b>	Exh. & Int.; Bronze; .3740" ID, 2.5000" O.A.L.
6	Guide	87-61	<b>VG-5073</b>	Int.; .3745" ID, 2.3750" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Spring	87-61	<b>VS-510</b>	Exh. & Int.; 2.0000" Free Height
6	Spring, Bulk	87-61	<b>VS-510B</b>	Exh. & Int.; Carton of 250; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Valve Stem Seal	87-78	<b>ST-2048</b>	Int.; Positive type; Viton®
12	Valve Stem Seal	87-61	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	87-61	<b>ST-2014</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
6	Valve Stem Seal	87-78	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
6	Valve Stem Seal	77-63	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
6	Valve Stem Seal	77-61	<b>MV-1918</b>	Exh.; O.E. design; Umbrella type; Viton®
6	Valve Stem Seal	62-61	<b>MV-1598C</b>	Int.; Umbrella type; Rubber
12	Valve Stem Seal Bulk	87-61	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	87-61	<b>ST-2014BC</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
6	Valve Stem Seal Bulk	77-63	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
6	Valve Stem Seal Bulk	62-61	<b>MV-1598</b>	Int.; Umbrella type; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	87-61	<b>245-1437-1</b> Std Only	1.4420" OD, 1.2500" ID, .2160" Depth
6	Int.	87-61	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	87-61	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

## 15 3.7L 225 OHV L6, 3.4063" Bore 1987-60

(cont.) L/D Truck VIN Codes "B" 1966-80, "C" 1970-71 & 1974-77, "E" 1978 & 1981-83, "H" 1981-87, "M" 1983, "N" 1979-80, "W" 1982, "X" 1970-79, "6" 1968-70

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	87-61	VK-66	2 groove	
24	Keeper	87-61	VK-66R	2 groove; Hardened	
24	Keeper	87-61	VK-174	4 groove	
24	Keeper	87-61	VK-174R	4 groove; Hardened	
12	Spring Insert	87-61	259-103C	.015"; ID 1.030"; Carton of 100	
12	Spring Insert	87-61	259-103B	.030"; ID 1.030"; Carton of 100	
12	Spring Insert	87-61	259-103BRS	.030"; ID 1.030"; Carton of 500	
12	Spring Insert	87-61	259-103A	.060"; ID 1.030"; Carton of 100	
12	Spring Insert	87-61	259-103ARS	.060"; ID 1.030"; Carton of 500	
6	Rotocap	87-61	RC-78S		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	87-61	244NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
6	Cast Piston - Individual	87-61	W244NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.	
6	Pin Bushing	87-61	2134Y		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	87-61	E-196K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	87-61	E-196X Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	87-61	WE-196K Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	87-61	WE-196X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	87-77	5070M Std-10-20-30-40		
1	Main Set	76	5070M Std-10-20-30-40	w/Cast crankshaft	
1	Main Set	76	4092M Std-10-20-30	w/Forged crankshaft	
1	Main Set	75-61	4092M Std-10-20-30		
1	Rod Set	87-77	6-3695RA Std-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Rod Set	76	6-3695RA Std-10-20-30-40	w/Cast crankshaft; <b>A-Series aluminum bearings</b>	
1	Rod Set	76	6-2375CP Std-10-20-30-40	w/Forged crankshaft; 6-2375CA 60 avail. as unplated & resizeable	
1	Rod Set	75-61	6-2375CP Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable	
6	Rod Pair	87-77	3695RA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
6	Rod Pair	76	3695RA Std-1-10-20-30-40	w/Cast crankshaft; <b>A-Series aluminum bearings</b>	
6	Rod Pair	76	2375CP Std-10-20-30-40	w/Forged crankshaft	
6	Rod Pair	75-61	2375CP Std-10-20-30-40		
1	Cam Set	87-79	1473M Std Only		
1	Cam Set	78-61	1454M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	87-61	224-4165C	w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump	
1	Oil Pump	87-61	224-4165V	High Volume; Will replace 5 bolt pump	
1	Screen Assy.	83-81	224-14157		
1	Screen Assy.	81-78	224-14226	Forward control chassis	
1	Screen Assy.	78-73	224-14157		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	87-81	260-1038	Premium valve stem seals incl.	
1	Kit Gasket Set	80-60	260-1004	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	87-60	381-8012		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
87-81	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		205-604	205-104
		Re-ring w/Mains		205-604M	205-104M
80-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		205-603	205-103
		Re-ring w/Mains		205-603M	205-103M
76	w/Forged crankshaft; Premium valve stem seals incl.	Re-ring		205-602	205-102
		Re-ring w/Mains		205-602M	205-102M
76	w/Cast crankshaft; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		205-603	205-103
		Re-ring w/Mains		205-603M	205-103M
75-61	Premium valve stem seals incl.	Re-ring		205-602	205-102
		Re-ring w/Mains		205-602M	205-102M
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
87-81	w/1 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master		MKP-604A	MKP-104A
		Master w/o Pistons		MK-604A	MK-104A

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# Dodge Truck (Incl. Minivans and SUV's)

**3.7L 225 OHV L6, 3.4063" Bore 1987-60 15**

**L/D Truck VIN Codes "B" 1966-80, "C" 1970-71 & 1974-77, "E" 1978 & 1981-83, "H" 1981-87, "M" (cont.) 1983, "N" 1979-80, "W" 1982, "X" 1970-79, "6" 1968-70**

K I T S	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	K I T S
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>	
	87-81	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains <b>505-604A</b>	<b>505-104A</b>	
	80-79	w/1 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-603C</b> <b>MK-603C</b>	<b>MKP-103C</b> <b>MK-103C</b>	
	80-79	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains <b>505-603C</b>	<b>505-103C</b>	
	78-77	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains <b>505-602A</b>	<b>505-102A</b>	
	78-77	w/1 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-603A</b> <b>MK-603A</b>	<b>MKP-103A</b> <b>MK-103A</b>	
	76	w/Forged crankshaft; w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-602A</b> <b>MK-602A</b>	<b>MKP-102A</b> <b>MK-102A</b>	
	76	w/1 Bbl. Carb.; w/Cast crankshaft; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-603A</b> <b>MK-603A</b>	<b>MKP-103A</b> <b>MK-103A</b>	
	76-70	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains <b>505-602A</b>	<b>505-102A</b>	
	75-70	w/1 Bbl. Carb.; Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-602A</b> <b>MK-602A</b>	<b>MKP-102A</b> <b>MK-102A</b>	
	69-61	Premium valve stem seals incl.; Incl. 5 bolt oil pump w/.826" rotor thickness; Will replace early 6 bolt pump	Master Master w/o Pistons <b>MKP-602A</b> <b>MK-602A</b>	<b>MKP-102A</b> <b>MK-102A</b>	
	69-61	Premium valve stem seals incl.; Incl. 5 bolt oil pump; w/.826" rotor thickness; Will replace early 6 bolt pump	Master w/o Rods & Mains <b>505-602A</b>	<b>505-102A</b>	

**3.7L 228.1 L-HEAD L6 (DeSoto), 3.375" Bore 1956-36 16**  
**L/D Truck**

B L O C K	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	B L O C K
	6	Pin Bushing	56-36	<b>8649XAS</b>	Full round, thin wall .0055" O/S OD bushing	
6	Pin Bushing	56-36	<b>8649XA</b>	Full round, thin wall bushing w/.9150" OD		
6	Pin Bushing	56-36	<b>8649V</b>	Split type, thin wall bushing w/.9135" OD		
6	Pin Bushing	56-36	<b>8649V20</b>	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock		
B L O C K	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	B L O C K
	1	Main Set	56-36	<b>485M</b>	Std-10-20-30-40	
	6	Rod Pair	56-36	<b>9560CPA</b>	Std-10-20-30-40-50	
	1	Cam Set	56-36	<b>1011M</b>	Std Only	

**3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore 1960-46 17**  
**L/D Truck**

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Chain	60-59	<b>222-494</b>	48 Links
1	Timing Chain	54-46	<b>222-401</b>	48 Links
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	60-46	<b>V-1351</b> Std Only	1.4070" Head Dia., .3405" Stem Dia., 4.8410" O.A.L.
6	Intake	60-46	<b>V-1086</b> Std Only	1.5310" Head Dia., .3405" Stem Dia., 4.8450" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	60-46	<b>VG-419</b>	Exh.; .3445" ID, 2.8130" O.A.L.
6	Guide	60-46	<b>VG-420</b>	Int.; .3425" ID, 2.8130" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	60-46	<b>VS-304</b>	w/o Rotocaps; 2.0000" Free Height
12	Spring	60-46	<b>VS-506</b>	Use w/Rotocaps; 1.8570" Free Height
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Int.	60-46	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
6	Int.	60-46	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth

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# Dodge Truck (Incl. Minivans and SUV's)

## 17 3.8L 230 L-HEAD L6 (Dodge), 3.25" Bore 1960-46 (cont.) L/D Truck

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	60-46	VK-63	2 groove; Round key groove
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	60-46	37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Cast Piston - Individual	60-46	W37P Std-20-30-40-60-80	Cast; 2-3/32", 2-5/32" Ring Groove, 1.980" CD, .8591" Pin Dia., Flat Head - 7.8:1 C.R.
6	Pin Bushing	60-56	1904V	Split type bushing
6	Pin Bushing	60-48	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	60-48	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	60-48	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	60-48	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
6	Pin Bushing	55	1904V	From Ser. No. 17001; Split type bushing
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	60-46	E-108KC Std-30-60	2-3/32, 2-5/32
1	Standard Set	60-46	E-108X Std-30-40-60	2-3/32, 2-5/32
6	Standard Single Cylinder Set	60-46	WE-108X Std-30	2-3/32, 2-5/32
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Repair Sleeve	60-46	SL-123M Std Only	3/32" wall, cut to length; Press fit sleeve
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	60-48	415M Std-10-20-30-40	w/M/T
1	Rod Set	60-48	6-9185CP Std-10-20-30-40	
6	Rod Pair	60-48	9185CP Std-10-20-30-40	
1	Cam Set	60-48	1010M Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	60-46	224-4160	w/rotor pump; w/Ext. drive gear; Rotor type

## 18 3.9L 236.6 L-HEAD L6 (DeSoto), 3.4375" Bore 1950-42 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	50-42	222-401	48 Links
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	50-49	V-1004 Std Only	1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
6	Exhaust	48	V-1004 Std Only	Chrysler; From Ser. No. 175886; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
6	Exhaust	48	V-1004 Std Only	Dodge; From Ser. No. 18448; 1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
6	Intake	50-42	V-1005 Std Only	1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	50-42	VG-419	Exh.; Use w/V-1004; .3445" ID, 2.8130" O.A.L.
6	Guide	50-42	VG-420	Int.; .3425" ID, 2.8130" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	50-42	VS-304	w/o Rotocaps; 2.0000" Free Height
12	Spring	50-42	VS-506	Use w/Rotocaps; 1.8570" Free Height
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	50-42	245-1640-1 Std Only	1.6395" OD, 1.3750" ID, .2480" Depth
6	Int.	50-42	245-1812-1N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
6	Int.	50-42	245-1812-1 Std Only	1.8175" OD, 1.5625" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	50-42	VK-63	2 groove; Round key groove
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	50-42	32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
6	Cast Piston - Individual	50-42	W32NP Std-20-30-40-60	Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.
6	Pin Bushing	50-42	8649XAS	Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	50-42	8649XA	Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	50-42	8649V	Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	50-42	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Standard Set	50-42	E-107X Std-30-40-60	2-3/32, 2-5/32
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	50-42	485M Std-10-20-30-40	
6	Rod Pair	50-42	9560CPA Std-10-20-30-40-50	
1	Cam Set	50-42	1011M Std Only	

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**3.9L 236.6 L-HEAD L6 (DeSoto), 3.4375" Bore 1950-42 18**  
L/D Truck (cont.)

QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	50-42	224-4160	Rotor type

**3.9L 239 OHV V6 (12 Valve), 3.9063" Bore 1990-86 19**  
L/D Truck VIN Codes "M" 1986-87, "X" 1988-2003

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-87	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	3 Piece Set	90-87	KT3-380S	Incl. silent type chain; Incl. (1) 222-380, (1) 223-712, (1) 223-721
1	Timing Chain	90-87	222-160	Double rlr.; 68 Links
1	Timing Chain	90-87	222-380	Silent type; 68 Links
1	Crank Sprocket	90-87	223-297	Double row; 23 Teeth
1	Crank Sprocket	90-87	223-721	Single row; Use w/silent type chain; 23 Teeth
1	Cam Sprocket	90-87	223-402	Double row; 46 Teeth
1	Cam Sprocket	90-87	223-712	Single row; Use w/silent type chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-1501	
1	Camshaft	89-88	CS-829	
1	Camshaft	87	CS-842	
12	Lifter	90-88	HT-2269	Std Only Hyd. rlr.
12	Lifter	87	HT-2011	Std Only Hyd.
12	Lifter, Bulk	90-88	HT-2269B	Std Only Hyd. rlr.; Carton of 117
12	Lifter, Bulk	87	HT-2011B	Std Only Hyd.; Carton of 117
1	Prelube	90-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	KC-1501	Hyd. rlr.; Incl. (1) CS-1501, (12) HT-2269, (1) 55-403B
1	Cam/Lifter Kit	89-88	KC-829	Hyd. rlr.; Incl. (1) CS-829, (12) HT-2269, (1) 55-403B
1	Cam/Lifter Kit	87	KC-842	Hyd.; Incl. (1) CS-842, (12) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	87	KCT-842	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-842, (12) HT-2011, (1) KT3-160S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-89	RP-3277	Hole through rod; 6.7400" O.A.L.
12	Push Rod	88	RP-3259	Solid ball; 6.7640" O.A.L.
12	Push Rod	87-86	RP-3194	.312" dia. ball at both ends; 7.5000" O.A.L.
12	Push Rod, Bulk	90-89	BRP-3277	Hole through rod; Carton of 100; 6.7400" O.A.L.
12	Push Rod, Bulk	88	BRP-3259	Solid ball; Carton of 100; 6.7640" O.A.L.
12	Push Rod, Bulk	87-86	BRP-3194	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Arm	90-89	R-1001	L.H.
6	Arm	90-89	R-1002	R.H.
6	Arm	88-86	R-861	L.H.
6	Arm	88-86	R-862	R.H.
6	Arm, Bulk	88-86	R-861B	L.H.; Carton of 64
6	Arm, Bulk	88-86	R-862B	R.H.; Carton of 64
2	Rocker Shaft	90-87	RS-698	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-89	V-3951	Std Only Chrome plated stem; 2 groove; 1.5170" Head Dia., .3717" Stem Dia., 4.9940" O.A.L.
6	Exhaust	88-87	V-2154	Std Only 2 groove; Chrome plated stem; 1.5170" Head Dia., .3716" Stem Dia., 4.9940" O.A.L.
6	Intake	90-87	V-1722	Std-5-15 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
6	Intake, Bulk	90-87	V-1722B15	15 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-86	VG-5007	Exh.; .3725" ID, 2.3800" O.A.L.
6	Guide	90-86	VG-5062	Exh.; .3735" ID, 2.3800" O.A.L.
6	Guide	90-86	VG-5007T	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
6	Guide, Bulk	90-86	VG-5007B	Exh.; Carton of 50; .3725" ID, 2.3800" O.A.L.
6	Guide, Bulk	90-86	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
6	Spring	90-89	VS-911	Exh.; 1.8800" Free Height
6	Spring	90-89	VS-1457	Int.; 2.2250" Free Height
6	Spring	88-87	VS-795	Exh.; w/Rotators; Use w/Rotators; 1.8100" Free Height
6	Spring	88-87	VS-510	Exh. & Int.; w/o Rotators; 2.0000" Free Height
6	Spring, Bulk	90-89	VS-1457B	Int.; Carton of 250; 2.2250" Free Height
6	Spring, Bulk	88-87	VS-795B	Exh.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height

**VALVE TRAIN**

**VALVE TRAIN**

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# Dodge Truck (Incl. Minivans and SUV's)

**19** 3.9L 239 OHV V6 (12 Valve), 3.9063" Bore 1990-86  
 (cont.) L/D Truck VIN Codes "M" 1986-87, "X" 1988-2003

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
6	Spring, Bulk	88-87	VS-510B	Exh. & Int.; w/o Rotators; Carton of 250; 2.0000" Free Height	VALVE TRAIN
12	Valve Stem Seal	90	ST-2089	Exh. & Int.; Positive type; Rubber	
6	Valve Stem Seal	89-86	ST-2048	Int.; Positive type; Viton®	
6	Valve Stem Seal	89-86	MV-1918	Exh.; Umbrella type; Viton®	
6	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	90-87	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth	
6	Exh.	90-87	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	
6	Int.	90-87	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth	
6	Int.	90-87	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth	
24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	90-88	VK-216	1 groove	
24	Keeper	90-87	VK-66	2 groove	
24	Keeper	90-87	VK-66R	2 groove; Hardened	
24	Keeper, Bulk	90-88	VK-216B	1 groove; Carton of 1000	
6	Rotocap	90-87	RC-78S		
6	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
6	Cast Piston	90-87	656P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head	
6	Cast Piston - Individual	90-87	W656P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head	
1	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-86	E-536K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	90-86	E-536X Std-30	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	90-86	WE-536K Std-20-30	2-5/64, 1-3/16	
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-86	7050MA Std-10-20-30	A-Series aluminum bearings	
1	Main Set	90-86	7420MA10X20 10X20	A-Series aluminum bearings; w/.020" O/S OD	
1	Rod Set	90-86	6-1460A Std-10-20-30	A-Series aluminum bearings	
6	Rod Pair	90-86	1460A Std-10-20-30	A-Series aluminum bearings	
1	Cam Set	90-86	1790M Std Only		
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-86	224-4166		
1	Oil Pump	90-86	224-4166V	High Volume, check pan for clearance	
1	Inter. Shaft	90-86	224-6166		
1	Screen Assy.	90-87	224-14239		
1	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90	260-1429	Premium valve stem seals incl.	
1	Kit Gasket Set	89-86	260-1428	Premium valve stem seals incl.	
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-86	381-8061		
RE-RING KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
90	Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring		205-6099	205-1099
		Re-ring w/Mains		205-6099M	205-1099M
89-86	Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring		205-6098	205-1098
		Re-ring w/Mains		205-6098M	205-1098M
OVERHAUL KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
90	Incl. A-Series aluminum bearings; Premium valve stem seals incl.; Incl. double rlr. type chain	Master		MKP-6099C	MKP-1099C
		Master w/o Pistons		MK-6099C	MK-1099C
90	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains		505-6099C	505-1099C
90	Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6233	----
90	Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block		BK-6233	----
90	Incl. A-Series aluminum bearings; Premium valve stem seals incl.; Incl. silent type chain	Master		MKP-6369	----
		Master w/o Pistons		MK-6369	----
90	Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		505-6369	----
89-88	Incl. A-Series aluminum bearings; Premium valve stem seals incl.; Incl. double rlr. type chain	Master		MKP-6098C	MKP-1098C
		Master w/o Pistons		MK-6098C	MK-1098C

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## Dodge Truck (Incl. Minivans and SUV's)

**3.9L 239 OHV V6 (12 Valve), 3.9063" Bore 1990-86 19**  
L/D Truck VIN Codes "M" 1986-87, "X" 1988-2003 (cont.)

K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S	
	YEARS	DESCRIPTION					
	89-88	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6098C	505-1098C		
	87	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-6098A MK-6098A	MKP-1098A MK-1098A		
87	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6098A	505-1098A			

**4.1L 251 L-HEAD L6 (Chrysler), 3.4375" Bore 1968-58 20**  
L/D Truck VIN Code "6" 1968

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E  T R A I N	
	1	Timing Chain	68-59	222-494			48 Links
	6	Exhaust	68-58	V-1004	Std Only		1.5010" Head Dia., .3400" Stem Dia., 4.8450" O.A.L.
	6	Intake	68-58	V-1005	Std Only		1.7180" Head Dia., .3410" Stem Dia., 4.8450" O.A.L.
	6	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	6	Guide	68-58	VG-419			Exh.; Use w/V-1004; .3445" ID, 2.8130" O.A.L.
	6	Guide	68-58	VG-420			Int.; .3425" ID, 2.8130" O.A.L.
	6	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	6	Spring	68-58	VS-506			Exh.; Use w/Rotocaps; 1.8570" Free Height
	6	Spring	68-58	VS-304			Int.; 2.0000" Free Height
6	VALVE SEAT	YEARS	PART NO.	DESCRIPTION			
6	Exh.	68-58	245-1640-1	Std Only	1.6395" OD, 1.3750" ID, .2480" Depth		
6	Int.	68-58	245-1812-1N	Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth		
6	Int.	68-58	245-1812-1	Std Only	1.8175" OD, 1.5625" ID, .2480" Depth		
24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION			
	Keeper	68-58	VK-63		2 groove; Round key groove		
B L O C K	6	PISTON	YEARS	PART NO.	DESCRIPTION		
		Cast Piston	68-58	32NP	Std-20-30-40-60	Use w/E-107X ring set; Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.	
	6	Cast Piston - Individual	68-58	W32NP	Std-20-30-40-60	Check piston grooving before supplying ring set; Cast; 2-3/32", 2-5/32" Ring Groove, 1.977" CD, .8591" Pin Dia., Flat Head - 6.9:1 C.R.	
	6	Pin Bushing	68-58	8649XAS		Full round, thin wall .0055" O/S OD bushing	
	6	Pin Bushing	68-58	8649XA		Full round, thin wall bushing w/.9150" OD	
	6	Pin Bushing	68-58	8649V		Split type, thin wall bushing w/.9135" OD	
	6	Pin Bushing	68-58	8649V20		Split type, thin wall bushing w/.9135" OD & .020" extra bore stock	
	1	RINGS	YEARS	PART NO.	DESCRIPTION		
		Standard Set	68-58	E-107X	Std-30-40-60	Use w/32NP piston; 2-3/32, 2-5/32	
	1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	Main Set	68-58	485M	Std-10-20-30-40			
6	Rod Pair	68-58	9560CPA	Std-10-20-30-40-50			
1	Cam Set	68-58	1011M	Std Only			
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
	Oil Pump	68-58	224-4160		Rotor type		

**4.3L 260 OHV V8 (Plymouth), 3.5625" Bore 1956-55 21**  
L/D Truck 259 Eng.

16	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	Lifter	56-55	HT-812	Std Only Hyd.; 1.830" - 1.860" Length
16	Lifter, Bulk	56-55	HT-812B	Std Only Hyd.; Carton of 117; 1.830" - 1.860" Length
16	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	Spring	56-55	VS-510	2.0000" Free Height
16	Spring, Bulk	56-55	VS-510B	Carton of 250; 2.0000" Free Height
16	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	Valve Stem Seal	56-55	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	56-55	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	Keeper	56-55	VK-66	Exh.; 2 groove
16	Keeper	56-55	VK-66R	Exh.; 2 groove; Hardened
16	Keeper	56-55	VK-174	Int.; 4 groove
16	Keeper	56-55	VK-174R	Int.; 4 groove; Hardened

# Dodge Truck (Incl. Minivans and SUV's)

**22 4.5L 273 OHV V8, 3.625" Bore 1968-64**  
**L/D Truck VIN Code "D" 1966-68**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	68-65	KT3-361S	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
1	Timing Set w/Gaskets	68-65	CTS-3000	Incl. silent type chain
1	Timing Chain	68-65	222-361	Silent type; 68 Links
1	Crank Sprocket	68-65	223-359	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Cam Sprocket	68-65	223-358	Use w/silent type chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	68-65	AT-2084 Std Only	Dumbbell shaped mech.
16	Lifter, Bulk	68-65	AT-2084B Std Only	Dumbbell shaped mech.; Carton of 117
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	68-65	RP-3219R100	Ball & socket type ends; Chrome-Moly; 7.3900" O.A.L.
16	Push Rod	68-65	RP-3107	7.6580" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	68-67	R-861	L.H.
8	Arm	68-67	R-862	R.H.
8	Arm, Bulk	68-67	R-861B	L.H.; Carton of 64
8	Arm, Bulk	68-67	R-862B	R.H.; Carton of 64
2	Rocker Shaft	68-67	RS-626	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68-65	V-2029 Std-5-15	4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	68-65	V-2029B15 15	4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Intake	68-65	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	68-65	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	68-65	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	68-65	VS-510	2.0000" Free Height
16	Spring, Bulk	68-65	VS-510B	Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	68-65	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	68-65	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	68-65	MV-1771C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	68-65	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	68-65	MV-1771	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	68-65	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	68-65	245-1625-2N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Exh.	68-65	245-1625-2 Std Only	1.6300" OD, 1.3750" ID, .2480" Depth
8	Int.	68-65	245-1812-1N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Int.	68-65	245-1812-1 Std Only	1.8175" OD, 1.5625" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	68-65	VK-174	Exh.; 4 groove
16	Keeper	68-65	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	68-65	VK-66	Int.; 2 groove
16	Keeper	68-65	VK-66R	Int.; 2 groove; Hardened
16	Spring Insert	68-65	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	68-65	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	68-65	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	68-65	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	68-65	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	66-65	322NP30 30-40-60	w/2 Bbl. Carb.; w/Mech. lifters; Cast; 2-5/64", 1-3/16" Ring Groove, 1.768" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 8.8:1 C.R.
8	Cast Piston - Individual	66-65	W322NP30 30-40-60	w/2 Bbl. Carb.; w/Mech. lifters; Cast; 2-5/64", 1-3/16" Ring Groove, 1.768" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs - 8.8:1 C.R.
8	Pin Bushing	66-65	2134Y	
8	Pin Bushing	66-65	2134Y20	w/.020" extra bore stock

(continued on next page)

## Dodge Truck (Incl. Minivans and SUV's)

**4.5L 273 OHV V8, 3.625" Bore 1968-64 22**  
**L/D Truck VIN Code "D" 1966-68 (cont.)**

BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	68-65	<b>E-239K</b> Std-30-60	2-5/64, 1-3/16
	1	Standard Set	68-65	<b>E-239X</b> Std-30-40	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	68-65	<b>WE-239X</b> Std-30	2-5/64, 1-3/16
BLOCK	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
	8	Repair Sleeve	68-65	<b>SL-17M</b> Std Only	3/32" wall, must be cut to correct length & notched
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	66-65	<b>4923MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Rod Set	66-65	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
	1	Rod Set	66-65	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
	1	Rod Set	66-65	<b>8-2130CA60</b> 60	Unplated & resizeable
	8	Rod Pair	66-65	<b>2130CP</b> Std-1-2-10-20-30-40-50	
	1	Cam Set	66-65	<b>1484M</b> Std Only	
	1	Cam Set	66-65	<b>1451M</b> Std Only	.760" length ctr. brg.
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	68-65	<b>224-4166</b>	
	1	Oil Pump	68-65	<b>224-4166V</b>	High Volume, check pan for clearance
	1	Inter. Shaft	68-65	<b>224-6166</b>	
	1	Screen Assy.	68-65	<b>224-1166</b>	
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	68-66	<b>260-1153</b>	Premium valve stem seals incl.
	1	Kit Gasket Set	65-64	<b>260-1153</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	68-65	<b>381-8010</b>	
	1	Steel Block Plug Kit	68-65	<b>381-4014</b>	

**5.2L 315 OHV V8 (Dodge), 3.625" Bore 1959-55 23**  
**L/D Truck**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	59-57	<b>222-160</b>	w/Hyd. lifters; Double rlr.; 68 Links
	1	Timing Chain	58	<b>222-348</b>	w/Mech. lifters; Silent type; 68 Links
	1	Crank Sprocket	59-57	<b>223-297</b>	w/Hyd. lifters; Double row; 23 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter	59-55	<b>HT-812</b> Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	59-55	<b>HT-812B</b> Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	59-55	<b>VS-510</b>	Int.; Exc. w/double rocker shaft; 2.0000" Free Height
	8	Spring, Bulk	59-55	<b>VS-510B</b>	Int.; Exc. w/double rocker shaft; Carton of 250; 2.0000" Free Height
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	59-55	<b>ST-2007</b>	Exh.; Positive type; Rubber
	8	Valve Stem Seal	59-55	<b>ST-2002</b>	Int.; Installation requires valve guide machining; Polyacrylate
	8	Valve Stem Seal	59-56	<b>MV-1599C</b>	Int.; Umbrella type; Rubber
	8	Valve Stem Seal Bulk	59-56	<b>MV-1599</b>	Int.; Umbrella type; Carton of 100; Rubber
	8	Valve Stem Seal Bulk	59-55	<b>ST-2007BC</b>	Exh.; Positive type; Carton of 100; Rubber
	8	Valve Stem Seal Bulk	59-55	<b>ST-2002BC</b>	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	16	Keeper	59-55	<b>VK-66</b>	2 groove
	16	Keeper	59-55	<b>VK-66R</b>	2 groove; Hardened
	16	Keeper	59-55	<b>VK-174</b>	4 groove
	16	Keeper	59-55	<b>VK-174R</b>	4 groove; Hardened
VALVE TRAIN	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	59-55	<b>E-239K</b> Std-30-60	2-5/64, 1-3/16
	1	Standard Set	59-55	<b>E-239X</b> Std-30-40	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	59-55	<b>WE-239X</b> Std-30	2-5/64, 1-3/16
VALVE TRAIN	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
	8	Repair Sleeve	59-55	<b>SL-17M</b> Std Only	3/32" wall, must be cut to correct length & notched

# Dodge Truck (Incl. Minivans and SUV's)

**24** 5.2L 318 OHV V8, 3.9063" Bore 1990-59  
 L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" 1983, "Y" 1988-2003, "8" 1968-69

**VALVE TRAIN**

**VALVE TRAIN**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	<b>KT3-380S</b>	Incl. silent type chain; Incl. (1) 222-380, (1) 223-712, (1) 223-721
1	3 Piece Set	90-89	<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	3 Piece Set	88-77	<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	3 Piece Set	88-77	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
1	3 Piece Set	76-69	<b>KT3-160S</b>	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
1	3 Piece Set	76-69	<b>KT3-361S</b>	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
1	Timing Set w/Gaskets	90-89	<b>CTS-3002</b>	Incl. double rlr. type chain
1	Timing Set w/Gaskets	88-69	<b>CTS-3000</b>	Incl. silent type chain
1	Timing Chain	90	<b>222-380</b>	Silent type; 68 Links
1	Timing Chain	90-89	<b>222-160</b>	Double rlr.; 68 Links
1	Timing Chain	88-77	<b>222-361</b>	Silent type; 68 Links
1	Timing Chain	76-69	<b>222-160</b>	Double rlr.; 68 Links
1	Timing Chain	76-69	<b>222-361</b>	Silent type; 68 Links
1	Timing Chain	68	<b>222-361</b>	Silent type; 68 Links
1	Timing Chain	68-59	<b>222-160</b>	w/Hyd. lifters; Double rlr.; 68 Links
1	Timing Chain	67	<b>222-361</b>	w/5 bolt valve covers; Silent type; 68 Links
1	Timing Chain	67-59	<b>222-348</b>	w/Mech. lifters; Silent type; 68 Links
1	Crank Sprocket	90	<b>223-721</b>	Single row; Use w/silent type chain; 23 Teeth
1	Crank Sprocket	90-89	<b>223-297</b>	Double row; 23 Teeth
1	Crank Sprocket	88-77	<b>223-359</b>	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Crank Sprocket	76-68	<b>223-297</b>	Double row; 23 Teeth
1	Crank Sprocket	76-68	<b>223-359</b>	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Crank Sprocket	67-65	<b>223-297</b>	Double row; 23 Teeth
1	Crank Sprocket	67-65	<b>223-359</b>	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Crank Sprocket	67-65	<b>223-274</b>	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Crank Sprocket	64-59	<b>223-297</b>	Double row; 23 Teeth
1	Crank Sprocket	64-59	<b>223-274</b>	Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Cam Sprocket	90	<b>223-712</b>	Single row; Use w/silent type chain; 46 Teeth
1	Cam Sprocket	90-89	<b>223-402</b>	Double row; 46 Teeth
1	Cam Sprocket	88-77	<b>223-358</b>	Use w/silent type chain; 46 Teeth
1	Cam Sprocket	76-69	<b>223-402</b>	Double row; 46 Teeth
1	Cam Sprocket	76-69	<b>223-358</b>	Use w/silent type chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	<b>CS-1565</b>	
1	Camshaft	87-76	<b>CS-645</b>	
1	Camshaft	75-69	<b>CS-645</b>	Exc. M300 & M350
16	Lifter	90-88	<b>HT-2269</b> Std Only	Hyd. rlr.
16	Lifter	87-69	<b>HT-2011</b> Std Only	Hyd.
16	Lifter	68-59	<b>AT-2084</b> Std Only	Dumbbell shaped mech.
16	Lifter	68-59	<b>HT-879</b> Std Only	To Ser. No. 21800000; Hyd.
16	Lifter, Bulk	90-88	<b>HT-2269B</b> Std Only	Hyd. rlr.; Carton of 117
16	Lifter, Bulk	87-69	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	68-59	<b>AT-2084B</b> Std Only	Dumbbell shaped mech.; Carton of 117
1	Prelube	90-59	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	<b>KC-1565</b>	Hyd. rlr.; Incl. (1) CS-1565, (16) HT-2269, (1) 55-403B
1	Cam/Lifter Kit	87-76	<b>KC-645</b>	Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	75-69	<b>KC-645</b>	Exc. M300 & M350; Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-80	<b>KCT-645A</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-80	<b>KCT-645</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-76	<b>KCT-645A</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-76	<b>KCT-645</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-69	<b>KCT-645A</b>	Exc. M300 & M350; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-69	<b>KCT-645</b>	Exc. M300 & M350; Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B

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# Dodge Truck (Incl. Minivans and SUV's)

**5.2L 318 OHV V8, 3.9063" Bore 1990-59 24**

**L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" (cont.) 1983, "Y" 1988-2003, "8" 1968-69**

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-89	<b>RP-3277</b>	Hole through rod; 6.7400" O.A.L.
16	Push Rod	88	<b>RP-3259</b>	Solid ball; 6.7640" O.A.L.
16	Push Rod	87-69	<b>RP-3194</b>	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod	68	<b>RP-3194</b>	From Ser. No. 21800001; .312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod	68	<b>RP-3120</b>	To Ser. No. 21800000; .230" dia. ball tapered end; .312" dia. ball opposite end; 7.6040" O.A.L.
16	Push Rod	68-59	<b>RP-3030</b>	w/Mech. lifters; Ball & cup type ends; .360" dia. ball at one end; 8.7350" O.A.L.
16	Push Rod	67-63	<b>RP-3120</b>	.230" dia. ball tapered end; .312" dia. ball opposite end; 7.6040" O.A.L.
16	Push Rod, Bulk	90-89	<b>BRP-3277</b>	Hole through rod; Carton of 100; 6.7400" O.A.L.
16	Push Rod, Bulk	88	<b>BRP-3259</b>	Solid ball; Carton of 100; 6.7640" O.A.L.
16	Push Rod, Bulk	87-69	<b>BRP-3194</b>	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
16	Push Rod, Bulk	68	<b>BRP-3194</b>	From Ser. No. 21800001; .312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-89	<b>R-1001</b>	L.H.
8	Arm	90-89	<b>R-1002</b>	R.H.
8	Arm	88-68	<b>R-861</b>	L.H.
8	Arm	88-68	<b>R-862</b>	R.H.
8	Arm	67-63	<b>R-861</b>	L.H.; w/Hyd. lifters
8	Arm	67-63	<b>R-862</b>	R.H.; w/Hyd. lifters
8	Arm, Bulk	88-68	<b>R-861B</b>	L.H.; Carton of 64
8	Arm, Bulk	88-68	<b>R-862B</b>	R.H.; Carton of 64
8	Arm, Bulk	67-63	<b>R-861B</b>	L.H.; w/Hyd. lifters; Carton of 64
8	Arm, Bulk	67-63	<b>R-862B</b>	R.H.; w/Hyd. lifters; Carton of 64
2	Rocker Shaft	90-68	<b>RS-626</b>	
2	Rocker Shaft	67-63	<b>RS-626</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-89	<b>V-3951</b> Std Only	w/Rotators; Chrome plated stem; 2 groove; 1.5170" Head Dia., .3717" Stem Dia., 4.9940" O.A.L.
8	Exhaust	88-81	<b>V-2141</b> Std Only	w/o Rotators; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	88-81	<b>V-2154</b> Std Only	w/Rotators; 2 groove; Chrome plated stem; 1.5170" Head Dia., .3716" Stem Dia., 4.9940" O.A.L.
8	Exhaust	80	<b>V-2141</b> Std Only	L/D Eng.s.; w/o Rotators; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	80	<b>V-2154</b> Std Only	L/D Eng.s.; w/Rotators; 2 groove; Chrome plated stem; 1.5170" Head Dia., .3716" Stem Dia., 4.9940" O.A.L.
8	Exhaust	79	<b>V-2141</b> Std Only	L/D Eng.s.; w/o Rotators; Chrome plated stem; 4 groove; 1.5000" Head Dia., .3715" Stem Dia., 4.9820" O.A.L.
8	Exhaust	79	<b>V-2154</b> Std Only	L/D Eng.s.; w/Rotators; 2 groove; Chrome plated stem; 1.5170" Head Dia., .3716" Stem Dia., 4.9940" O.A.L.
8	Exhaust	79	<b>V-2029</b> Std-5-15	L/D Eng.s.; w/Rotators; 4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust	78-69	<b>V-2029</b> Std-5-15	L/D Eng.s.; 4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust	68	<b>V-2029</b> Std-5-15	4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust	67	<b>V-2029</b> Std-5-15	w/5 bolt valve covers; 4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust	67	<b>V-1389</b> Std Only	W/2 bolt valve covers; w/Hyd. lifters; 2 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust	67	<b>V-1343</b> Std Only	W/2 bolt valve covers; w/Mech. lifters; 4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust	66-59	<b>V-1389</b> Std Only	W/Hyd. lifters; 2 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust	66-59	<b>V-1343</b> Std Only	W/Mech. lifters; 4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust, Bulk	79	<b>V-2029B15</b> 15	L/D Eng.s.; w/Rotators; 4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	78-69	<b>V-2029B15</b> 15	L/D Eng.s.; 4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	68	<b>V-2029B15</b> 15	4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	67	<b>V-2029B15</b> 15	w/5 bolt valve covers; 4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
8	Intake	90-86	<b>V-1722</b> Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**24** 5.2L 318 OHV V8, 3.9063" Bore 1990-99  
 (cont.) L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U"  
 1983, "Y" 1988-2003, "8" 1968-69

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake	85-84	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	83	V-1722 Std-5-15	VIN Code "U"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	83	V-1908 Std-15	VIN Code "U"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	82	V-1722 Std-5-15	VIN Code "R"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	82	V-1908 Std-15	VIN Code "R"; 2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	81	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	80-77	V-1722 Std-5-15	VIN Code "P"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	76-71	V-1722 Std-5-15	VIN Code "E"; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	70	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	69	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	68	V-1722 Std-5-15	2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	67	V-1344 Std Only	w/2 bolt valve covers; 2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
8	Intake	67	V-1722 Std-5-15	w/5 bolt valve covers; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Intake	66-59	V-1344 Std Only	2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
8	Intake, Bulk	90-86	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	85-84	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	83	V-1722B15 15	VIN Code "U"; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	83	V-1908B15 15	VIN Code "U"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	82	V-1722B15 15	VIN Code "R"; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	82	V-1908B15 15	VIN Code "R"; 2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	81	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	80-77	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	76-71	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	70	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	69	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	68	V-1722B15 15	2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
8	Intake, Bulk	67	V-1722B15 15	w/5 bolt valve covers; 2 groove; Carton of 25; 1.7800" Head Dia., .3875" Stem Dia., 4.9790" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	83-59	VG-5003	Int.; .3740" ID, 3.0600" O.A.L.
8	Guide, Bulk	83-59	VG-5003B	Int.; Carton of 50; .3740" ID, 3.0600" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-89	VS-911	Exh.; w/Rotators; 1.8800" Free Height
8	Spring	90-89	VS-1457	Int.; 2.2250" Free Height
8	Spring	88-78	VS-795	Exh.; w/Rotators; Use w/Rotators; 1.8100" Free Height
8	Spring	88-78	VS-510	Int.; 2.0000" Free Height
16	Spring	77-72	VS-510	Exh. & Int.; w/o Rotators; w/o Damper; 2.0000" Free Height
16	Spring	77-72	VS-795	Exh. & Int.; w/Rotators; Use w/Rotators; 1.8100" Free Height
8	Spring	71-60	VS-680	Exh.; w/Hyd. lifters; 1.8800" Free Height
8	Spring	71-60	VS-510	Exh. & Int.; w/Mech. lifters; 2.0000" Free Height
8	Spring, Bulk	90-89	VS-1457B	Int.; Carton of 250; 2.2250" Free Height
8	Spring, Bulk	88-78	VS-795B	Exh.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height
8	Spring, Bulk	88-78	VS-510B	Int.; Carton of 250; 2.0000" Free Height

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**5.2L 318 OHV V8, 3.9063" Bore 1990-59 24**

**L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" (cont.) 1983, "Y" 1988-2003, "8" 1968-69**

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring, Bulk	77-72	<b>VS-510B</b>	Exh. & Int.; w/o Rotators; w/o Damper; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	77-72	<b>VS-795B</b>	Exh. & Int.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height
8	Spring, Bulk	71-60	<b>VS-680B</b>	Exh.; w/Hyd. lifters; Carton of 300; 1.8800" Free Height
8	Spring, Bulk	71-60	<b>VS-510B</b>	Exh. & Int.; w/Mech. lifters; Carton of 250; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	<b>ST-2089</b>	Exh. & Int.; O.E. design; Positive type; Rubber
16	Valve Stem Seal	90-72	<b>ST-2002</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	89-72	<b>ST-2048</b>	Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	71-59	<b>ST-2002</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	89-78	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	77-74	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	77-74	<b>MV-1771C</b>	Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal	73-72	<b>MV-1771C</b>	Exh.; Umbrella type; Polyacrylate
8	Valve Stem Seal	73-72	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
8	Valve Stem Seal	71	<b>MV-1771C</b>	Exh.; Umbrella type; Polyacrylate
8	Valve Stem Seal	70-61	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
16	Valve Stem Seal Bulk	90-72	<b>ST-2002BC</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	77-74	<b>MV-1771</b>	Int.; Umbrella type; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	73-72	<b>MV-1771</b>	Exh.; Umbrella type; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	71	<b>MV-1771</b>	Exh.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	71-59	<b>ST-2002BC</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	90-71	<b>245-1812-2</b> Std Only	Use w/V-1722; 1.8175" OD, 1.5000" ID, .2160" Depth
8	Exh.	90-68	<b>245-1625-2N</b> Std Only	Use w/V-2029, V-2154, V-3951 & V-2141; Premium Material; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Exh.	90-68	<b>245-1625-2</b> Std Only	Use w/V-2029, V-2154, V-3951 & V-2141; 1.6300" OD, 1.3750" ID, .2480" Depth
8	Int.	85-71	<b>245-2000-1</b> Std Only	Use w/V-1908; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	70-68	<b>245-1812-2</b> Std Only	Use w/V-1722; 1.8175" OD, 1.5000" ID, .2160" Depth
8	Exh.	68-59	<b>245-1937-1</b> Std Only	Use w/V-1389; 1.9425" OD, 1.6875" ID, .2480" Depth
8	Int.	68-59	<b>245-1687-2N</b> Std Only	Use w/V-1344; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	68-59	<b>245-1687-2</b> Std Only	Use w/V-1344; 1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-59	<b>VK-138</b>	w/.371" stem dia.; 1 groove; Square cut key groove
32	Keeper	90-59	<b>VK-138R</b>	w/.371" stem dia.; 1 groove; Square cut key groove; Hardened
32	Keeper	90-59	<b>VK-66</b>	2 groove
32	Keeper	90-59	<b>VK-66R</b>	2 groove; Hardened
32	Keeper	90-59	<b>VK-174</b>	4 groove
32	Keeper	90-59	<b>VK-174R</b>	4 groove; Hardened
32	Keeper, Bulk	90-59	<b>VK-138B</b>	w/.371" stem dia.; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-59	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	90-59	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	90-59	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	90-59	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	90-59	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
8	Rotacap	90-60	<b>RC-78S</b>	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-85	<b>526P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
8	Cast Piston	84-69	<b>285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	84-69	<b>285NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# Dodge Truck (Incl. Minivans and SUV's)

**24** 5.2L 318 OHV V8, 3.9063" Bore 1990-59  
 (cont.) L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" 1983, "Y" 1988-2003, "8" 1968-69

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	67	<b>1061P30</b> 30-40-60	w/2 bolt valve covers; Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
8	Cast Piston	67	<b>1061NP30</b> * 30-40-60	w/2 bolt valve covers; Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9844" Pin Dia., Recessed Head .090" deep w/2 valve reliefs
8	Cast Piston	66-59	<b>1061P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
8	Cast Piston	66-59	<b>1061NP30</b> * 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9844" Pin Dia., Recessed Head .090" deep w/2 valve reliefs
8	Cast Piston - Individual	90-85	<b>W526P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
8	Cast Piston - Individual	84-69	<b>W285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	84-69	<b>W285NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-pin rod - 8.5:1 C.R.
8	Cast Piston - Individual	67	<b>W1061P30</b> 30-40-60	w/2 bolt valve covers; Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
8	Cast Piston - Individual	66-59	<b>W1061P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.790" CD, .9842" Pin Dia., Recessed Head .090" deep x 3.000" dia. - 7.1:1 C.R.; Designed for full-float or press-in rod
1	Cast Piston Set w/Prem. Rings	90-85	<b>8K526P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	84-69	<b>8K285NCP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	84-69	<b>8K285NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-85	<b>8X526P20</b> 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.745" CD, .9842" Pin Dia., Flat Head - 9.0:1 C.R.
1	Cast Piston Set w/Econ. Rings	84-69	<b>8X285NP20</b> 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs; Designed for full-float or press-in-rod pin - 8.5:1 C.R.
8	Powerforged	72-69	<b>L-2329F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-69	<b>WL-2329F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin Bushing	80-59	<b>2134Y</b>	
8	Pin Bushing	80-59	<b>2134Y20</b>	w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-59	<b>E-178K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-59	<b>E-178X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-59	<b>WE-178K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-59	<b>WE-178X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	<b>7381MA10X20</b> 10X20	<b>A-Series aluminum bearings</b> ; Use in .020" O/S Bore
1	Main Set	90-88	<b>5095MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 bearing full grooved
1	Main Set	87-59	<b>5024MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 upper brg. grooved
1	Rod Set	90-59	<b>8-2130CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set	90-59	<b>8-2130CP</b> Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	90-59	<b>8-2130CA60</b> 60	Unplated & resizeable
8	Rod Pair	90-59	<b>2130CP</b> Std-1-2-10-20-30-40-50	
1	Cam Set	90-80	<b>1484M</b> Std Only	
1	Cam Set	79-59	<b>1451M</b> Std Only	.760" length ctr. brg.
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-62	<b>224-4166</b>	
1	Oil Pump	90-62	<b>224-4166V</b>	High Volume, check pan for clearance

BLOCK

BLOCK



# Dodge Truck (Incl. Minivans and SUV's)

**5.2L 318 OHV V8, 3.9063" Bore 1990-59 24**

**L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" (cont.) 1983, "Y" 1988-2003, "8" 1968-69**

	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION		
BLOCK	1	Inter. Shaft	90-62	<b>224-6166</b>			
	1	Screen Assy.	90-89	<b>224-14239</b>	Dakota		
	1	Screen Assy.	90-89	<b>224-1266</b>	Exc. Dakota		
	1	Screen Assy.	88-77	<b>224-1266</b>			
	1	Screen Assy.	76-74	<b>224-1266</b>			
	1	Screen Assy.	70	<b>224-1166</b>	A100; To Ser. No. 20980000		
	1	Screen Assy.	69-64	<b>224-1166</b>	A100		
	1	Kit Gasket Set	90	<b>260-1430</b>	Premium valve stem seals incl.		
	1	Kit Gasket Set	89-82	<b>260-1152</b>	Premium valve stem seals incl.		
	1	Kit Gasket Set	81	<b>260-1154</b>	VIN Code "P"; Premium valve stem seals incl.		
BLOCK	1	Kit Gasket Set	81	<b>260-1121</b>	VIN Code "R"; Premium valve stem seals incl.		
	1	Kit Gasket Set	81-76	<b>260-1152</b>	H/D Eng.s.; Premium valve stem seals incl.		
	1	Kit Gasket Set	80-78	<b>260-1121</b>	VIN Code "P"; Premium valve stem seals incl.		
	1	Kit Gasket Set	80-70	<b>260-1154</b>	VIN Code "E"; Premium valve stem seals incl.		
	1	Kit Gasket Set	69-68	<b>260-1154</b>	VIN Codes "8" & "E"; Premium valve stem seals incl.		
	1	Kit Gasket Set	67	<b>260-1571</b>	W/2 bolt valve covers; Canadian Built Eng.s.; Premium valve stem seals incl.		
	1	Kit Gasket Set	67	<b>260-1154</b>	W/5 bolt valve covers; Exc. Canadian Built Eng.s.; Premium valve stem seals incl.		
	1	Kit Gasket Set	66-59	<b>260-1571</b>	Premium valve stem seals incl.		
	1	Brass Block Plug Kit	90-59	<b>381-8010</b>			
	1	Steel Block Plug Kit	90-59	<b>381-4014</b>			
KITS	<b>RE-RING KIT</b>						
		<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
		90	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 brg. full grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-6100M</b>	<b>205-1100M</b>
		90	Premium valve stem seals incl.	Re-ring		<b>205-6100</b>	<b>205-1100</b>
		89-88	Premium valve stem seals incl.	Re-ring		<b>205-718</b>	----
		89-88	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-718AM</b>	<b>205-218AM</b>
		89-88	Premium valve stem seals incl.	Re-ring		----	<b>205-218A</b>
		87-82	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-718M</b>	<b>205-218M</b>
		87-82	Premium valve stem seals incl.	Re-ring		<b>205-718</b>	----
		87-82	Premium valve stem seals incl.	Re-ring		----	<b>205-218A</b>
		81	VIN Code "R"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-743M</b>	<b>205-243M</b>
		81	VIN Code "R"; Premium valve stem seals incl.	Re-ring		<b>205-743</b>	<b>205-243</b>
		81	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-744AM</b>	<b>205-244AM</b>
		81	VIN Code "P"; Premium valve stem seals incl.	Re-ring		<b>205-744A</b>	<b>205-244A</b>
		81-77	H/D Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-718M</b>	<b>205-218M</b>
		81-77	H/D Eng.s.; Premium valve stem seals incl.	Re-ring		<b>205-718</b>	----
		81-77	H/D Eng.s.; Premium valve stem seals incl.	Re-ring		----	<b>205-218A</b>
		80-78	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-743M</b>	<b>205-243M</b>
		80-78	VIN Code "P"; Premium valve stem seals incl.	Re-ring		<b>205-743</b>	<b>205-243</b>
		80-70	VIN Code "E"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-744AM</b>	<b>205-244AM</b>
	80-70	VIN Code "E"; Premium valve stem seals incl.	Re-ring		<b>205-744A</b>	<b>205-244A</b>	

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# Dodge Truck (Incl. Minivans and SUV's)

**24** 5.2L 318 OHV V8, 3.9063" Bore 1990-59  
 (cont.) L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" 1983, "Y" 1988-2003, "8" 1968-69

<b>RE-RING KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		
76	H/D Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	205-718M	205-218M
76	H/D Eng.s.; Premium valve stem seals incl.	205-718	----
76	H/D Eng.s.; Premium valve stem seals incl.	----	205-218A
69-68	VIN Codes "8" & "E"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	205-744AM	205-244AM
69-68	VIN Codes "8" & "E"; Premium valve stem seals incl.	205-744A	205-244A
67	w/5 bolt valve covers; Exc. Canadian built Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	205-744AM	----
67	W/5 bolt valve covers; Exc. Canadian built Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.	----	205-244AM
67	W/5 bolt valve covers; Exc. Canadian built Eng.s.; Premium valve stem seals incl.	205-744A	205-244A
<b>OVERHAUL KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		
90	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Cam/lifter kit not incl.; Incl. double rlr. type chain	MK-6100A	MK-1100A
90	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.	BKP-6237	----
90	Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 bearing full grooved	BK-6237	----
90	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	MKP-6377 MK-6377	MKP-1377 MK-1377
90	Premium valve stem seals incl.; Incl. double rlr. type chain	505-6377	505-1377
90	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. flange OD; Pos. 1 bearing full grooved; Premium valve stem seals incl.; Incl. silent type chain	MK-7062	----
90	Premium valve stem seals incl.; Incl. silent type chain	505-7062	----
90	Premium valve stem seals incl.; Incl. silent type chain; Incl. <b>A-Series aluminum bearings</b> ; 3.530" max. flange OD; Pos. 1 bearing full grooved	MKP-7062	----
89-88	Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	505-718H	505-218H
89-88	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 bearing full grooved; Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	MKP-718H MK-718H	MKP-218H MK-218H
87-85	Cam/lifter kit not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain	505-718H	505-218H
87-85	Premium valve stem seals incl.; Incl. double rlr. type chain	505-718L	505-218L
87-82	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	MK-718A	MK-218A
84-82	Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	MKP-718A	MKP-218A
84-82	Premium valve stem seals incl.; Incl. double rlr. type chain	505-718A	----

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# Dodge Truck (Incl. Minivans and SUV's)

**5.2L 318 OHV V8, 3.9063" Bore 1990-59 24**

**L/D Truck VIN Codes "E" 1966-80, "G" 1971 & 1974-75, "P" 1978-82, "R" 1981-82, "T" 1983-87, "U" 1983, "Y" 1988-2003, "8" 1968-69 (cont.)**

	<b>OVERHAUL KIT (cont.)</b>				
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
K I T S	84-82	Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	505-218A
	84-82	Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718C	----
	84-82	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	505-218D
	81	VIN Code "R"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper bearing grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-743A	----
	81	VIN Code "R"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-743A	MK-243A
	81	VIN Code "R"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-743A	505-243A
	81	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-744C MK-744C	MKP-244C MK-244C
	81	VIN Code "P"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-744C	505-244C
	81-80	H/D Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-718A MK-718A	MKP-218A MK-218A
	81-80	H/D Eng.s.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-718A	----
	81-80	H/D Eng.s.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	----	505-218A
	81-80	H/D Eng.s.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-718C	----
	81-80	H/D Eng.s.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	----	505-218D
	80	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper bearing grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-743A	----
	80	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-743A	MK-243A
	80	VIN Code "P"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-743A	505-243A
	80	VIN Code "E"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; Pos. 1 upper brg. grooved; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-744C MK-744C	MKP-244C MK-244C
	80	VIN Code "E"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-744C	505-244C
	79-78	VIN Code "P"; Incl. <b>A-Series aluminum bearings</b> ; w/3.530" max. brg. flange OD; .760" length ctr. brg.; Pos. 1 upper bearing grooved; Premium valve stem seals incl.; Incl. silent type chain	Master	----	MKP-243A

**5.4L 331 OHV V8 (Chrysler), 3.8125" Bore 1956-54 25**  
**L/D Truck**

	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Lifter	56	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter	55-54	HT-812 Std Only	Hyd.; 1.830" - 1.860" Length
	16	Lifter, Bulk	56	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	16	Lifter, Bulk	55-54	HT-812B Std Only	Hyd.; Carton of 117; 1.830" - 1.860" Length
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Valve Stem Seal	56-54	MV-1771C	Umbrella type; Polyacrylate

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# Dodge Truck (Incl. Minivans and SUV's)

## 25 5.4L 331 OHV V8 (Chrysler), 3.8125" Bore 1956-54 (cont.) L/D Truck

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal Bulk	56-54	MV-1771	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	56	VK-66	Exh.; 2 groove
16	Keeper	56	VK-66R	Exh.; 2 groove; Hardened
16	Keeper	56	VK-174	Int.; 4 groove
16	Keeper	56	VK-174R	Int.; 4 groove; Hardened
32	Keeper	55-54	VK-66	Exh. & Int.; 2 groove
32	Keeper	55-54	VK-66R	Exh. & Int.; 2 groove; Hardened
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	56-54	1804V	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	56-54	SL-93M Std Only	3/32" wall, must be cut to correct length

## 26 5.9L 359 OHV Turbo-Diesel L6 (12 Valve), 4.0197" Bore (Cummins Eng.) 1990-88 L/D Truck VIN Codes "C" 1991-96, "D" 1997-99, "8" 1988-91, Eng. Code "6BTA5.9" 1988-99

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	90-89	HT-2302 Std Only	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-89	RP-3317	11.0220" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-89	V-4384 Std Only	Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
6	Intake	90-89	V-4385 Std Only	Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-89	VG-1331	Exh.; .3160" ID, 2.0520" O.A.L.
12	Guide	90-89	VG-1325	Exh. & Int.; 7/16" OD; .3162" ID, 2.5000" O.A.L.
6	Guide	90-89	VG-1330	Int.; .3160" ID, 2.3970" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-89	VS-1553	2.2000" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-89	245-1750-7 Std Only	Universal size for heads w/o O.E. insert; 1.7500" OD, 1.3750" ID, .2188" Depth
6	Exh.	90-89	245-1722-E1 Std Only	1.7220" OD, 1.3570" ID, .2650" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-89	VK-286	

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-89	2743PN Std-.50-1.00MM	VIN Code "8"; Cast; 1-3.00mm, 1-2.36mm, 1-4.00mm Ring Groove, 2.815" CD, 1.5750" Pin Dia., Recessed Head .700" deep x 2.430" dia. - 17.5:1 C.R.; Repl. O.E. No. 3907163
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
6	Premium Set	90-89	E-623KC Std-.50-1.00MM	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7216M Std-.25-.50MM	
1	Rod Set	90-88	6-4205CP Std-.25-.50-.75MM	
6	Rod Pair	90-88	4205CP Std-.25-.50-.75-1.00MM	
1	Cam Brg.	90-89	4206DR Std Only	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-88	260-1527	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. std. .061" thickness head gskt.

RE-RING KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. std. .061" thickness head gskt.	Re-ring Re-ring w/Mains	205-6187 205-6187M	----- -----
OVERHAUL KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. std. .061" thickness head gskt.	Block	BK-6246	-----
QTY	OVERHAUL KIT	YEARS	PART NO.	DESCRIPTION
	Piston and Ring Kit	90-89	1PK1-2743B	VIN Code "8"
	Piston and Ring Kit w/Bearing	90-89	1PK2-2743B	VIN Code "8"

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## Dodge Truck (Incl. Minivans and SUV's)

5.9L 359 OHV Turbo-Diesel L6 (12 Valve), 4.0197" Bore (Cummins Eng.) 1990-88 <b>26</b>					
L/D Truck VIN Codes "C" 1991-96, "D" 1997-99, "8" 1988-91, Eng. Code "6BTA5.9" 1988-99 (cont.)					
QTY	OVERHAUL KIT (cont.) Complete Overhaul Kit	YEARS 90-89	PART NO. 1KS2-2743B	DESCRIPTION VIN Code "8"; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. std. .061" thickness head gskt.	
5.9L 360 OHV V8, 4" Bore 1990-71 <b>27</b>					
L/D Truck VIN Codes "F" 1971-80, "K" 1975 & 1978-80, "L" 1974-75, "S" 1979-82, "T" 1974-82, "U" 1981-83, "V" 1976-85, "W" 1983-88, "Y" 1971-75, "Z" 1989-2003, "1" 1983-88, "5" 1986-2002					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	90	KT3-380S	Incl. silent type chain; Incl. (1) 222-380, (1) 223-712, (1) 223-721
	1	3 Piece Set	90-89	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
	1	3 Piece Set	88-72	KT3-160S	Incl. double rlr. type chain; Incl. (1) 222-160, (1) 223-297, (1) 223-402
	1	3 Piece Set	88-72	KT3-361S	Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
	1	Timing Set w/Gaskets	88-72	CTS-3000	Incl. silent type chain
	1	Timing Chain	90	222-380	Silent type; 68 Links
	1	Timing Chain	90-89	222-160	Double rlr.; 68 Links
	1	Timing Chain	88-74	222-361	Silent type; 68 Links
	1	Timing Chain	73-72	222-361	Silent type; 68 Links
	1	Crank Sprocket	90	223-721	Single row; Use w/silent type chain; 23 Teeth
	1	Crank Sprocket	90-89	223-297	Double row; 23 Teeth
	1	Crank Sprocket	88-77	223-359	Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Crank Sprocket	76-74	223-359	Std. Eng.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Crank Sprocket	73-72	223-359	Std. Eng.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
	1	Cam Sprocket	90	223-712	Single row; Use w/silent type chain; 46 Teeth
	1	Cam Sprocket	90-89	223-402	Double row; 46 Teeth
	1	Cam Sprocket	88-77	223-358	Use w/silent type chain; 46 Teeth
	1	Cam Sprocket	76-74	223-358	Std. Eng.; Use w/silent type chain; 46 Teeth
	1	Cam Sprocket	73-72	223-358	Std. Eng.; Use w/silent type chain; 46 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	90-89	CS-1556	Rlr. cam
	1	Camshaft	90-89	CS-1557	Rlr. cam
	1	Camshaft	88-87	CS-665	w/dual exh. sys.
	1	Camshaft	88-87	CS-645	w/single exh. sys.
	1	Camshaft	86-81	CS-665	
	1	Camshaft	80-78	CS-665	Exc. H/D Eng.
	1	Camshaft	80-78	CS-644	H/D Eng.
	1	Camshaft	77-72	CS-665	
	16	Lifter	90-89	HT-2269 Std Only	Hyd. rlr.
	16	Lifter	88-72	HT-2011 Std Only	Hyd.
	16	Lifter, Bulk	90-89	HT-2269B Std Only	Hyd. rlr.; Carton of 117
	16	Lifter, Bulk	88-72	HT-2011B Std Only	Hyd.; Carton of 117
	1	Prelube	90-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
	1	Cam/Lifter Kit	90-89	KC-1556	Hyd. rlr.; Incl. (1) CS-1556, (16) HT-2269, (1) 55-403B
	1	Cam/Lifter Kit	88-87	KC-665	w/dual exh. sys.; Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter Kit	88-87	KC-645	w/single exh. sys.; Hyd.; Incl. (1) CS-645, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter Kit	86-81	KC-665	Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter Kit	80-78	KC-665	Exc. H/D Eng.; Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter Kit	80-78	KC-644	H/D Eng.; Hyd.; Incl. (1) CS-644, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter Kit	77-72	KC-665	Hyd.; Incl. (1) CS-665, (16) HT-2011, (1) 55-403B
	1	Cam/Lifter/Timing Kit	88-87	KCT-665	w/dual exh. sys.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-160S, (1) 55-403B
	1	Cam/Lifter/Timing Kit	88-87	KCT-665A	w/dual exh. sys.; Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B
	1	Cam/Lifter/Timing Kit	88-87	KCT-645A	w/single exh. sys.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-160S, (1) 55-403B
	1	Cam/Lifter/Timing Kit	88-87	KCT-645	w/single exh. sys.; Hyd.; Incl. silent type chain; Incl. (1) CS-645, (16) HT-2011, (1) KT3-361S, (1) 55-403B
	1	Cam/Lifter/Timing Kit	86-81	KCT-665	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-160S, (1) 55-403B
	1	Cam/Lifter/Timing Kit	86-81	KCT-665A	Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B

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# Dodge Truck (Incl. Minivans and SUV's)

**27 5.9L 360 OHV V8, 4" Bore 1990-71**  
 (cont.) L/D Truck VIN Codes "F" 1971-80, "K" 1975 & 1978-80, "L" 1974-75, "S" 1979-82, "T" 1974-82, "U" 1981-83, "V" 1976-85, "W" 1983-88, "Y" 1971-75, "Z" 1989-2003, "1" 1983-88, "5" 1986-2002

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	80-78	<b>KCT-665</b>	Exc. H/D Eng's.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-78	<b>KCT-665A</b>	Exc. H/D Eng's.; Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-78	<b>KCT-644A</b>	H/D Eng's.; Hyd.; Incl. silent type chain; Incl. (1) CS-644, (16) HT-2011, (1) KT3-361S, (1) 55-403B
1	Cam/Lifter/Timing Kit	77-72	<b>KCT-665</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-160S, (1) 55-403B
1	Cam/Lifter/Timing Kit	77-72	<b>KCT-665A</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-665, (16) HT-2011, (1) KT3-361S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-89	<b>RP-3277</b>	Hole through rod; 6.7400" O.A.L.
16	Push Rod	88-72	<b>RP-3194</b>	.312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk	90-89	<b>BRP-3277</b>	Hole through rod; Carton of 100; 6.7400" O.A.L.
16	Push Rod, Bulk	88-72	<b>BRP-3194</b>	.312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-89	<b>R-1001</b>	L.H.
8	Arm	90-89	<b>R-1002</b>	R.H.
8	Arm	88-72	<b>R-861</b>	L.H.
8	Arm	88-72	<b>R-862</b>	R.H.
8	Arm, Bulk	88-72	<b>R-861B</b>	L.H.; Carton of 64
8	Arm, Bulk	88-72	<b>R-862B</b>	R.H.; Carton of 64
2	Rocker Shaft	90-72	<b>RS-626</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-82	<b>V-2556</b> Std Only	2 groove; Chrome plated stem; 1.6170" Head Dia., .3716" Stem Dia., 4.9950" O.A.L.
8	Exhaust	88-82	<b>V-2155</b> Std Only	2 groove; Chrome plated stem; 1.6170" Head Dia., .3716" Stem Dia., 4.9950" O.A.L.
8	Exhaust	81-79	<b>V-2155</b> Std Only	2 groove; Chrome plated stem; 1.6170" Head Dia., .3716" Stem Dia., 4.9950" O.A.L.
8	Exhaust	81-79	<b>V-2556</b> Std Only	2 groove; Chrome plated stem; 1.6170" Head Dia., .3716" Stem Dia., 4.9950" O.A.L.
8	Exhaust	81-79	<b>V-3925</b> Std-15	4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.
8	Exhaust	78	<b>V-2113</b> Std Only	2 groove; 1.6000" Head Dia., .3715" Stem Dia., 5.0050" O.A.L.
8	Exhaust	78	<b>V-3925</b> Std-15	4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.
8	Exhaust	77-76	<b>V-2113</b> Std Only	L/D; 2 groove; 1.6000" Head Dia., .3715" Stem Dia., 5.0050" O.A.L.
8	Exhaust	77-76	<b>V-3925</b> Std-15	L/D; 4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.
8	Exhaust	75-72	<b>V-2113</b> Std Only	2 groove; 1.6000" Head Dia., .3715" Stem Dia., 5.0050" O.A.L.
8	Exhaust	75-72	<b>V-3925</b> Std-15	4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.
8	Exhaust, Bulk	81-79	<b>V-3925B15</b> 15	2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Exhaust, Bulk	78	<b>V-3925B15</b> 15	2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Exhaust, Bulk	77-76	<b>V-3925B15</b> 15	L/D; 2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Exhaust, Bulk	75-72	<b>V-3925B15</b> 15	2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.
8	Intake	90-82	<b>V-1908</b> Std-15	2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	81-80	<b>V-1908</b> Std-15	2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake	79-76	<b>V-1908</b> Std-15	2 groove; 1.8800" Head Dia., .3725" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	90-82	<b>V-1908B15</b> 15	2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	81-80	<b>V-1908B15</b> 15	2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
8	Intake, Bulk	79-76	<b>V-1908B15</b> 15	2 groove; Carton of 25; 1.8800" Head Dia., .3875" Stem Dia., 4.9810" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90-72	<b>VG-5007</b>	Exh. & Int.; .3725" ID, 2.3800" O.A.L.
16	Guide	90-72	<b>VG-5007T</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	90-72	<b>VG-5007B</b>	Exh. & Int.; Carton of 50; .3725" ID, 2.3800" O.A.L.

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**5.9L 360 OHV V8, 4" Bore 1990-71 27**

**L/D Truck VIN Codes "F" 1971-80, "K" 1975 & 1978-80, "L" 1974-75, "S" 1979-82, "T" 1974-82, "U" (cont.)  
1981-83, "V" 1976-85, "W" 1983-88, "Y" 1971-75, "Z" 1989-2003, "1" 1983-88, "5" 1986-2002**

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
16	Guide, Bulk	90-72	<b>VG-5007TB</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	90-89	<b>VS-911</b>	Exh.; w/Rotators; 1.8800" Free Height
8	Spring	90-89	<b>VS-1457</b>	Int.; 2.2250" Free Height
16	Spring	88	<b>VS-510</b>	Exh. & Int.; 2.0000" Free Height
8	Spring	87-78	<b>VS-795</b>	Exh.; w/Rotators; Use w/Rotators; 1.8100" Free Height
16	Spring	87-78	<b>VS-510</b>	Exh. & Int.; w/o Rotators; 2.0000" Free Height
8	Spring	77-74	<b>VS-795</b>	Exh.; w/Rotators; Use w/Rotators; 1.8100" Free Height
8	Spring	77-74	<b>VS-510</b>	Int.; 2.0000" Free Height
16	Spring	73-72	<b>VS-510</b>	Exh. & Int.; 2.0000" Free Height
8	Spring, Bulk	90-89	<b>VS-1457B</b>	Int.; Carton of 250; 2.2250" Free Height
16	Spring, Bulk	88	<b>VS-510B</b>	Exh. & Int.; Carton of 250; 2.0000" Free Height
8	Spring, Bulk	87-78	<b>VS-795B</b>	Exh.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height
16	Spring, Bulk	87-78	<b>VS-510B</b>	Exh. & Int.; w/o Rotators; Carton of 250; 2.0000" Free Height
8	Spring, Bulk	77-74	<b>VS-795B</b>	Exh.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height
8	Spring, Bulk	77-74	<b>VS-510B</b>	Int.; Carton of 250; 2.0000" Free Height
16	Spring, Bulk	73-72	<b>VS-510B</b>	Exh. & Int.; Carton of 250; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	90	<b>ST-2048</b>	Exh. & Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	90-72	<b>ST-2002</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	89-72	<b>ST-2048</b>	Int.; O.E. design; Positive type; Viton®
8	Valve Stem Seal	89-72	<b>MV-1918</b>	Exh.; Umbrella type; Viton®
16	Valve Stem Seal	76-72	<b>MV-1771C</b>	Exh. & Int.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	90-72	<b>ST-2002BC</b>	Exh. & Int.; Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	76-72	<b>MV-1771</b>	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	90-82	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	90-82	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	90-72	<b>245-2000-1</b> Std Only	Use w/V-1908; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	81-79	<b>245-1687-2N</b> Std Only	Use w/V-2155 & V-2556; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	81-79	<b>245-1687-2</b> Std Only	Use w/V-2155 & V-2556; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	81-79	<b>245-1750-2N</b> Std Only	Use w/V-3925; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	81-79	<b>245-1750-2</b> Std Only	Use w/V-3925; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	78-72	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	78-72	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	90-72	<b>VK-174</b>	Exh.; 4 groove
16	Keeper	90-72	<b>VK-174R</b>	Exh.; 4 groove; Hardened
16	Keeper	90-72	<b>VK-66</b>	Int.; 2 groove
16	Keeper	90-72	<b>VK-66R</b>	Int.; 2 groove; Hardened
16	Spring Insert	90-72	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	90-72	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	90-72	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	90-72	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	90-72	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
8	Rotocap	90-74	<b>RC-78S</b>	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	90-72	<b>405CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	90-72	<b>405P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
8	Cast Piston - Individual	90-72	<b>W405P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-72	<b>8K405CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90-72	<b>8K405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-72	<b>8X405P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9842" Pin Dia., Recessed Head .070" deep x 3.140" dia. - 8.0:1 C.R.

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# Dodge Truck (Incl. Minivans and SUV's)

**27 5.9L 360 OHV V8, 4" Bore 1990-71**  
 (cont.) L/D Truck VIN Codes "F" 1971-80, "K" 1975 & 1978-80, "L" 1974-75, "S" 1979-82, "T" 1974-82, "U" 1981-83, "V" 1976-85, "W" 1983-88, "Y" 1971-75, "Z" 1989-2003, "1" 1983-88, "5" 1986-2002

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Powerforged	74-72	L-2386F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.591" CD, .9842" Pin Dia., Flat Head. DurOshield® skirt coated piston.	
8	Forged Piston - Individual	74-72	WL-2386F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.591" CD, .9842" Pin Dia., Flat Head. DurOshield® skirt coated piston.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-72	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16	
1	Premium Set	90-72	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16	
1	Premium Set	90-72	R-9903 Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set	
1	Standard Set	90-72	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	90-72	WE-251K Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	90-72	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	90-72	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	90-72	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
1	Repair Sleeve	90-72	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-74	4999MA Std-1-10-20-30	A-Series aluminum bearings; w/3.910" max. flange OD	
1	Main Set	73-72	4948MA Std-10-20-30	A-Series aluminum bearings; 3.685" max. flange OD	
1	Rod Set	90-72	8-2130CP10X2 10X2-20X2	Use in .002" O/S Rod Bore	
1	Rod Set	90-72	8-2130CP Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable	
1	Rod Set	90-72	8-2130CA60 60	Unplated & resizeable	
8	Rod Pair	90-72	2130CP Std-1-2-10-20-30-40-50		
1	Cam Set	90-79	1484M Std Only		
1	Cam Set	78-72	1451M Std Only	.760" length ctr. brg.	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-72	224-4166		
1	Oil Pump	90-72	224-4166V	High Volume, check pan for clearance	
1	Inter. Shaft	90-72	224-6166		
1	Screen Assy.	90-74	224-1266	B150, B250 & B350 Series	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	89	260-1095	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	88-82	260-1095	Premium valve stem seals incl.	
1	Kit Gasket Set	81-76	260-1033	Exc. H/D Engs.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	81-76	260-1095	H/D Engs.; Premium valve stem seals incl.	
1	Kit Gasket Set	75-71	260-1033	Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-71	381-8010		
1	Steel Block Plug Kit	90-71	381-4014		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
89	Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	205-683AM	205-183AM
89	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring	205-683A	205-183A
88-82	Incl. A-Series aluminum bearings; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	205-683AM	205-183AM
88-82	Premium valve stem seals incl.		Re-ring	205-683A	205-183A
81-76	Exc. H/D Engs.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Incl. A-Series aluminum bearings; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	205-622AM	205-122AM
81-76	Exc. H/D Engs.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.		Re-ring	205-622A	205-122A
81-76	H/D Engs.; Incl. A-Series aluminum bearings; w/3.910" max. brg. flange OD; Premium valve stem seals incl.		Re-ring w/Mains	205-683AM	205-183AM
81-76	H/D Engs.; Premium valve stem seals incl.		Re-ring	205-683A	205-183A

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## Dodge Truck (Incl. Minivans and SUV's)

**5.9L 360 OHV V8, 4" Bore 1990-71 27**

**L/D Truck VIN Codes "F" 1971-80, "K" 1975 & 1978-80, "L" 1974-75, "S" 1979-82, "T" 1974-82, "U" 1981-83, "V" 1976-85, "W" 1983-88, "Y" 1971-75, "Z" 1989-2003, "1" 1983-88, "5" 1986-2002 (cont.)**

	<b>RE-RING KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>			
	75-74	Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.	Re-ring w/Mains	205-622AM 205-122AM	
	75-72	Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.	Re-ring	205-622A 205-122A	
	73-72	Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.685" max. brg. flange OD; Premium valve stem seals incl.	Re-ring w/Mains	205-622M 205-122M	
		<b>OVERHAUL KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	88-87	w/dual exh. sys.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-683C MK-683C	MKP-183C MK-183C
	88-87	w/dual exh. sys.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-683C	505-183C
	86-82	Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-683C MK-683C	MKP-183C MK-183C
	86-82	Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-683C	505-183C
81	Exc. H/D Eng.s.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-622C MK-622C	MKP-122C MK-122C	
81	Exc. H/D Eng.s.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-622C	505-122C	
81-79	H/D Eng.s.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. double rlr. type chain	Master Master w/o Pistons	MKP-683C MK-683C	MKP-183C MK-183C	
81-79	H/D Eng.s.; Premium valve stem seals incl.; Incl. double rlr. type chain	Master w/o Rods & Mains	505-683C	505-183C	
80-79	Exc. H/D Eng.s.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.910" max. brg. flange OD; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-622C MK-622C	MKP-122C MK-122C	
80-79	Exc. H/D Eng.s.; Large port int. manifold gskts. incl.; Small port int. manifold gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-622C	505-122C	

**5.9L 361 OHV V8, 4.125" Bore 1970-68 28**  
**L/D Truck VIN Code "8" 1968-70**

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	70-68	381-8010	
1	Steel Block Plug Kit	70-68	381-4014	

**6.3L 383 OHV V8, 4.25" Bore 1971-63 29**  
**L/D Truck VIN Codes "J" 1966-71, "8" 1968-70**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	71-67	KT3-501S	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367
1	Timing Chain	71-67	222-501	Silent type; 50 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	71-69	CS-327	
16	Lifter	71-69	HT-2011 Std Only	Hyd.
16	Lifter	71-69	HT-976 Std Only	Hyd.
16	Lifter, Bulk	71-69	HT-2011B Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	71-69	HT-976B Std Only	Hyd.; Carton of 117
1	Prelube	71-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	71-69	KC-327	Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B

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# Dodge Truck (Incl. Minivans and SUV's)

**29 6.3L 383 OHV V8, 4.25" Bore 1971-63**  
 (cont.) L/D Truck VIN Codes "J" 1966-71, "8" 1968-70

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	71-69	KCT-327	Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	71-69	RP-3191	8.5750" O.A.L.
16	Push Rod, Bulk	71-69	BRP-3191	Carton of 100; 8.5750" O.A.L.
QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm	71-68	R-829	L.H.
8	Arm	71-68	R-828	R.H.
2	Rocker Shaft	71-68	RS-612	
QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	71-69	V-1900 Std Only	4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.
8	Intake	71-69	V-1386 Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	71-67	VG-5073	Exh. & Int.; .3745" ID, 2.3750" O.A.L.
16	Guide	71-67	VG-5088	Exh. & Int.; Bronze; .3735" ID, 2.6250" O.A.L.
QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	71-69	VS-673	2.5800" Free Height
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	71-69	ST-2002	Installation requires valve guide machining; Polyacrylate Umbrella type; Polyacrylate
16	Valve Stem Seal	71-69	MV-1707C	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	71-69	ST-2002BC	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	71-69	MV-1707	Umbrella type; Carton of 100; Polyacrylate
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	71-69	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Exh.	71-69	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	71-69	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	71-69	VK-174	Exh.; 4 groove
16	Keeper	71-69	VK-174R	Exh.; 4 groove; Hardened
16	Keeper	71-69	VK-66	Int.; 2 groove
16	Keeper	71-69	VK-66R	Int.; 2 groove; Hardened
16	Spring Insert	71-69	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	71-69	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	71-69	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	71-69	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	71-69	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	71-67	366NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.848" CD, 1.0939" Pin Dia., Flat Head - 8.4:1 C.R.
8	Cast Piston - Individual	71-67	W366NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.848" CD, 1.0939" Pin Dia., Flat Head - 8.4:1 C.R.
8	Pin	71-69	P-1940 Std-3	
QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	71-67	E-233K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	71-67	E-233X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	71-67	WE-233K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	71-67	WE-233X Std-20-30-40-60	2-5/64, 1-3/16
QTY	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Repair Sleeve	71-69	SL-24Y Std Only	1/8" wall, must be cut to correct length
8	Repair Sleeve	71-69	SL-24M Std Only	3/32" wall, must be cut to correct length
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	71-67	4094M Std-10-20-30-40-60	3.453" max. flange OD
1	Rod Set	71-67	8-2320CP Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable
1	Rod Set	71-67	8-2320CA60 60	Unplated & resizeable
8	Rod Pair	71-67	2320CP Std-1-10-20-30-40-50	
1	Cam Set	71-67	1453M Std Only	Babbitt material; Full round design
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	71-68	224-43366A	Exc. W300; High Pressure; Use original cover plate on Eng's. with canister oil filter
1	Oil Pump	71-68	224-4174V	Exc. W300; High-Volume; Use original cover plate on Eng's. w/canister oil filter
1	Oil Pump	71-68	224-4174	Exc. W300; Use original cover plate on Eng's. w/canister oil filter
1	Oil Pump	67	224-43366A	Exc. W300; High Pressure; Use original cover plate on Eng's. with canister oil filter

(continued on next page)

# Dodge Truck (Incl. Minivans and SUV's)

**6.3L 383 OHV V8, 4.25" Bore 1971-63 29**  
**L/D Truck VIN Codes "J" 1966-71, "8" 1968-70 (cont.)**

BLOCK	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	67	224-4174V	Exc. W300; High-Volume; Use original cover plate on Eng. w/canister oil filter		
	1	Oil Pump	67	224-4174	Exc. W300; Use original cover plate on Eng. w/canister oil filter		
	1	Pump Repair Kit	71-68	224-5174	Exc. W300		
	1	Pump Repair Kit	67	224-5174	Exc. W300		
	1	Inter. Shaft	71-67	224-6174			
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	71-64	260-1001	Int. manifold gskt. not incl.; Premium valve stem seals incl. w/6 bolt valve covers; Int. manifold gskt. not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	63	260-1001			
	1	Valley Pan Gasket Set	63	260-4011			
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	71-63	381-8011			
	1	Steel Block Plug Kit	71-63	381-4031			
KITS	YEARS	RE-RING KIT DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
	71-67	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring			205-667	205-167
KITS	YEARS	OVERHAUL KIT DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
	71-69	Exc. W300; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Use original cover plate on Eng. w/canister oil filter; Incl. silent type chain; w/3.453" max. brg. flange OD	Master Master w/o Pistons			MKP-667E MK-667E	MKP-167E MK-167E

**6.6L 400 OHV V8, 4.342" Bore 1980-71 30**  
**L/D Truck VIN Code "J" 1971-80**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
	1	3 Piece Set	80-72	KT3-501S	Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367		
	1	Timing Chain	80-72	222-501	Silent type; 50 Links		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
	1	Camshaft	80-72	CS-327			
	16	Lifter	80-72	HT-976 Std Only	Hyd.		
	16	Lifter, Bulk	80-72	HT-976B Std Only	Hyd.; Carton of 117		
	1	Prelube	80-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
	1	Cam/Lifter Kit	80-72	KC-327	Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B		
	1	Cam/Lifter/Timing Kit	80-72	KCT-327	Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B		
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
	16	Push Rod	78-72	RP-3191	8.5750" O.A.L.		
	16	Push Rod, Bulk	78-72	BRP-3191	Carton of 100; 8.5750" O.A.L.		
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	8	Arm	79-72	R-829	L.H.		
	8	Arm	79-72	R-828	R.H.		
	2	Rocker Shaft	79-72	RS-612			
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
	8	Exhaust	80-72	V-1900 Std Only	w/o Catalytic Converter; 4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.		
	8	Exhaust	78-72	V-3925 Std-15	W/Catalytic converter; 4 groove; Chrome plated stem; 1.6000" Head Dia., .3710" Stem Dia., 5.0050" O.A.L.		
	8	Exhaust, Bulk	78-72	V-3925B15 15	W/Catalytic converter; 2 groove; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3865" Stem Dia., 5.0050" O.A.L.		
	8	Intake	80-72	V-1386 Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.		
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	16	Guide	78-72	VG-5088	Exh. & Int.; Bronze; .3735" ID, 2.6250" O.A.L.		
	16	Guide	78-71	VG-5073	Exh. & Int.; .3745" ID, 2.3750" O.A.L.		
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	16	Spring	75-72	VS-673	2.5800" Free Height		
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	8	Valve Stem Seal	78-72	ST-2002	Exh.; Installation requires valve guide machining; Polyacrylate		
	8	Valve Stem Seal	78-72	ST-2004	Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE		
	8	Valve Stem Seal	78	MV-1918	Exh.; Umbrella type; Viton®		

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# Dodge Truck (Incl. Minivans and SUV's)

**30 6.6L 400 OHV V8, 4.342" Bore 1980-71**

(cont.) L/D Truck VIN Code "J" 1971-80

VALVE TRAIN		VALVE TRAIN		VALVE TRAIN		
<b>QTY</b>	<b>VALVE SEAL (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal	77	<b>MV-1707C</b>	Exh. & Int.; Umbrella type; Polyacrylate		
8	Valve Stem Seal	76-74	<b>MV-1918</b>	Exh.; Umbrella type; Viton®		
16	Valve Stem Seal	73-72	<b>MV-1707C</b>	Exh. & Int.; Umbrella type; Polyacrylate		
8	Valve Stem Seal Bulk	78-72	<b>ST-2002BC</b>	Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate		
8	Valve Stem Seal Bulk	78-72	<b>ST-2004BC</b>	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
16	Valve Stem Seal Bulk	77	<b>MV-1707</b>	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate		
16	Valve Stem Seal Bulk	73-72	<b>MV-1707</b>	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Exh.	78-72	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth		
8	Exh.	78-72	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth		
8	Int.	78-72	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	79-72	<b>VK-174</b>	Exh.; 4 groove		
16	Keeper	79-72	<b>VK-174R</b>	Exh.; 4 groove; Hardened		
16	Keeper	79-72	<b>VK-66</b>	Int.; 2 groove		
16	Keeper	79-72	<b>VK-66R</b>	Int.; 2 groove; Hardened		
8	Rotocap	79-72	<b>RC-78S</b>			
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Cast Piston	78-72	<b>406AP</b> Std-20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.		
8	Cast Piston - Individual	78-72	<b>W406AP</b> Std-20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.813" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.		
8	Pin	78-72	<b>P-1940</b> Std-3			
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	78-72	<b>E-318K</b> Std-30	2-5/64, 1-3/16		
1	Standard Set	78-72	<b>E-318X</b> Std-30	2-5/64, 1-3/16		
8	Premium Single Cylinder Set	78-72	<b>WE-318K30</b> 30	2-5/64, 1-3/16		
8	Standard Single Cylinder Set	78-72	<b>WE-318X</b> Std Only	2-5/64, 1-3/16		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	78-72	<b>4094M</b> Std-10-20-30-40-60	3.453" max. flange OD		
1	Rod Set	78-72	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable		
1	Rod Set	78-72	<b>8-2320CA60</b> 60	Unplated & resizeable		
8	Rod Pair	78-72	<b>2320CP</b> Std-1-10-20-30-40-50			
1	Cam Set	78-72	<b>1453M</b> Std Only	Babbitt material; Full round design		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	79-72	<b>224-43366A</b>	Exc. W300; High Pressure; Use original cover plate on Eng. with canister oil filter		
1	Oil Pump	79-72	<b>224-4174V</b>	Exc. W300; High-Volume; Use original cover plate on Eng. w/canister oil filter		
1	Pump Repair Kit	79-72	<b>224-5174</b>	Exc. W300		
1	Inter. Shaft	79-72	<b>224-6174</b>			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	80-74	<b>260-1043</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	73-71	<b>260-1001</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	80-71	<b>260-4011</b>			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	78-71	<b>381-8011</b>			
1	Steel Block Plug Kit	78-71	<b>381-4031</b>			
<b>KITS</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>KITS</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	78-74	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	<b>205-655</b>	<b>205-155</b>	
	73-72	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	<b>205-642</b>	<b>205-142</b>	
<b>31 7.2L 440 OHV V8, 4.32" Bore 1980-72</b>						
L/D Truck VIN Codes "A" 1972-80 (440-3), "D" 1972-80						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	3 Piece Set	80-77	<b>KT3-501S</b>	B100, B200, B300, CB300, D100, D150, D200, D300, PB200, PB300, W100, W200 & W300 Series; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367		
1	3 Piece Set	76-74	<b>KT3-501S</b>	B100, B200, B300, CB300, D100, D200, D300, PB200, PB300, W100, W200 & W300 Series; Incl. silent type chain; 223-366 & 223-367 not sold separately; Incl. (1) 222-501, (1) 223-366, (1) 223-367		

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# Dodge Truck (Incl. Minivans and SUV's)

**7.2L 440 OHV V8, 4.32" Bore 1980-72 31**

**L/D Truck VIN Codes "A" 1972-80 (440-3), "D" 1972-80 (cont.)**

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	80-77	222-501	B100, B200, B300, CB300, D100, D150, D200, D300, PB200, PB300, W100, W200 & W300 Series; Silent type; 50 Links
1	Timing Chain	76-75	222-501	B100, B200, B300, CB300, D100, D200, D300, PB200, PB300, W100, W200 & W300 Series; Silent type; 50 Links
1	Timing Chain	74	222-501	B100, D100, D200, D300, M300, M350, W100 & W300 Series; Silent type; 50 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	79-74	CS-327	Hyd.
16	Lifter	80-74	HT-976 Std Only	Hyd.
16	Lifter, Bulk	80-74	HT-976B Std Only	Hyd.; Carton of 117
1	Prelube	79-74	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	79-74	KC-327	Hyd.; Incl. (1) CS-327, (16) HT-976, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-77	KCT-327	B100, B200, B300, CB300, D100, D150, D200, D300, PB200, PB300, W100, W200 & W300 Series; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-74	KCT-327	B100, B200, B300, CB300, D100, D200, D300, PB200, PB300, W100, W200 & W300 Series; Hyd.; Incl. silent type chain; Incl. (1) CS-327, (16) HT-976, (1) KT3-501S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	78-74	RP-3221R	w/o oil hole; Chrome-Moly; 9.2950" O.A.L.
16	Push Rod	78-74	RP-3193	9.3150" O.A.L.
16	Push Rod	74	RP-3191	8.5750" O.A.L.
16	Push Rod, Bulk	78-74	BRP-3193	Carton of 100; 9.3150" O.A.L.
16	Push Rod, Bulk	74	BRP-3191	Carton of 100; 8.5750" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	80-74	R-829	L.H.
8	Arm	80-74	R-828	R.H.
2	Rocker Shaft	80-74	RS-612	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	80-74	V-1900 Std Only	4 groove; Chrome plated stem; 1.7400" Head Dia., .3717" Stem Dia., 4.8840" O.A.L.
8	Intake	80-74	V-1386 Std Only	2.0800" Head Dia., .3725" Stem Dia., 4.8685" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	78-74	VG-5073	Exh. & Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	80-77	VS-778	Exh.; w/damper; 2.3600" Free Height
8	Spring	80-74	VS-673	Int.; 2.5800" Free Height
8	Spring	76-74	VS-795	Exh.; w/Rotators; Use w/Rotators; 1.8100" Free Height
8	Spring, Bulk	76-74	VS-795B	Exh.; w/Rotators; Use w/Rotators; Carton of 300; 1.8100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	80-74	ST-2002	Exc. Eng. w/double valve springs; Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	76-74	ST-2048	Int.; Positive type; Viton®
16	Valve Stem Seal	76-74	MV-1707C	Exh. & Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk	80-74	ST-2002BC	Exc. Eng. w/double valve springs; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	76-74	MV-1707	Exh. & Int.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	80-74	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Exh.	80-74	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	80-74	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	80-74	VK-66	2 groove
16	Keeper	80-74	VK-66R	2 groove; Hardened
16	Keeper	80-74	VK-174	4 groove
16	Keeper	80-74	VK-174R	4 groove; Hardened
8	Rotocap	80-74	RC-78S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	78-74	424NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.
8	Cast Piston	78-74	424P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

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# Dodge Truck (Incl. Minivans and SUV's)

**31 7.2L 440 OHV V8, 4.32" Bore 1980-72**  
 (cont.) L/D Truck VIN Codes "A" 1972-80 (440-3), "D" 1972-80

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston - Individual	78-74	<b>W424NP</b> * Std-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.	
8	Cast Piston - Individual	78-74	<b>W424P</b> Std-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.912" CD, 1.0939" Pin Dia., Flat Head - 8.0:1 C.R.	
8	Pin	78-74	<b>P-1940</b> Std-3		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	78-72	<b>E-424K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	78-72	<b>E-424X</b> Std-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	78-72	<b>WE-424K</b> Std-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	78-72	<b>WE-424X</b> Std-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	78-74	<b>5025MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; Partial grooved; 3.930" max. flange OD	
1	Main Set	74	<b>4924MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b> ; Partial grooved; 3.624" max. flange OD	
1	Rod Set	78-74	<b>8-2320CP</b> Std-10-20-30-40-50	8-2320CA 60 avail. as unplated & resizeable	
1	Rod Set	78-74	<b>8-2320CA60</b> 60	Unplated & resizeable	
8	Rod Pair	78-74	<b>2320CP</b> Std-1-10-20-30-40-50		
1	Cam Set	78-74	<b>1453M</b> Std Only	Babbitt material; Full round design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	79-74	<b>224-43366A</b>	Exc. W300; High Pressure; Use original cover plate on Eng. with canister oil filter	
1	Oil Pump	79-74	<b>224-4174V</b>	Exc. W300; High-Volume; Use original cover plate on Eng. w/canister oil filter	
1	Pump Repair Kit	79-74	<b>224-5174</b>	Exc. W300	
1	Inter. Shaft	79-74	<b>224-6174</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	78-74	<b>260-1043</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	73-72	<b>260-1001</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	78-72	<b>260-4019</b>		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	78-73	<b>381-8011</b>		
1	Steel Block Plug Kit	78-73	<b>381-4031</b>		
KITS	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION			
	78-74	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. partial grooved brgs.; w/3.930" max. brg. flange OD; Premium valve stem seals incl.	<b>205-656M</b>	<b>205-156M</b>	
	78-74	Int. manifold gskt. not incl.; Premium valve stem seals incl.	<b>205-656</b>	<b>205-156</b>	

## Eagle - See Chrysler Corp. Car Fiat

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.1L 1116cc SOHC L4 80mm Bore (8 Valve).....	1973-71	..... 1	1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve).....	1983-79	..... 6
1.2L 1197cc OHV L4 73mm Bore (8 Valve).....	1967-66	..... 2	1.6L 1592cc DOHC L4 80mm Bore (8 Valve).....	1974-73	..... 7
1.3L 1290cc SOHC L4 86mm Bore (8 Valve).....	1979-73	..... 3	1.6L 1608cc DOHC L4 80mm Bore (8 Valve).....	1973-71	..... 8
1.4L 1438cc OHV L4 80mm Bore (8 Valve).....	1971-68	..... 4	1.8L 1756cc DOHC L4 84mm Bore (8 Valve).....	1978-74	..... 9
1.5L 1481cc OHV L4 77mm Bore (8 Valve).....	1967-64	..... 5	2.0L 1995cc DOHC L4 84mm Bore (8 Valve).....	1985-79	..... 10

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
124A	1.2L 1197cc OHV L4 73mm Bore (8 Valve)	2	132A1	1.8L 1756cc DOHC L4 84mm Bore (8 Valve)	9
124B2	1.4L 1438cc OHV L4 80mm Bore (8 Valve)	4	132B	2.0L 1995cc DOHC L4 84mm Bore (8 Valve)	10
125BC	1.6L 1608cc DOHC L4 80mm Bore (8 Valve)	8	132C	2.0L 1995cc DOHC L4 84mm Bore (8 Valve)	10
128A	1.1L 1116cc SOHC L4 80mm Bore (8 Valve)	1	132C2	2.0L 1995cc DOHC L4 84mm Bore (8 Valve)	10
128AS	1.3L 1290cc SOHC L4 86mm Bore (8 Valve)	3	132C3	2.0L 1995cc DOHC L4 84mm Bore (8 Valve)	10
128A1	1.3L 1290cc SOHC L4 86mm Bore (8 Valve)	3	138AS	1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve)	6
132A	1.6L 1592cc DOHC L4 80mm Bore (8 Valve)	7	138A2	1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve)	6
132A	1.8L 1756cc DOHC L4 84mm Bore (8 Valve)	9	138BS	1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve)	6
132AC	1.6L 1592cc DOHC L4 80mm Bore (8 Valve)	7	138B2	1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve)	6
132AC	1.8L 1756cc DOHC L4 84mm Bore (8 Valve)	9			

### 1.1L 1116cc SOHC L4 (8 Valve), 80mm Bore 1973-71 **1** Eng. Code "128A" 1971-73

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-71	4659M10 10-20-30	
1	Thrust Washer Set	73-71	60987AF Std Only	Position 3
1	Rod Set	73-71	4-60985RA10 10-20	

### 1.2L 1197cc OHV L4 (8 Valve), 73mm Bore 1967-66 **2** Eng. Code "124B" 1966-69

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-66	4659M10 10-20-30	
1	Thrust Washer Set	67-66	60987AF Std Only	Position 3
1	Rod Set	67-66	4-60985RA10 10-20	

### 1.3L 1290cc SOHC L4 (8 Valve), 86mm Bore 1979-73 **3** Eng. Codes "128A1" 1972-79, "128AS" 1974-79

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	79-74	ST-2039	Positive type; Rubber
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-73	4659M10 10-20-30	
1	Thrust Washer Set	79-73	60987AF Std Only	Position 3
1	Rod Set	79-73	4-60985RA10 10-20	

### 1.4L 1438cc OHV L4 (8 Valve), 80mm Bore 1971-68 **4** Eng. Code "124B2" 1970-73

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	71-70	ST-2039	Positive type; Rubber
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	71-68	4659M10 10-20-30	
1	Thrust Washer Set	71-68	60987AF Std Only	Position 3
1	Rod Set	71-68	4-60985RA10 10-20	

### 1.5L 1481cc OHV L4 (8 Valve), 77mm Bore 1967-64 **5** Eng. Code "115C" 1964-67

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	67-64	2516AF Std Only	Position 1
1	Cam Set	67-64	1311MRA Std Only	

### 1.5L 1498cc SOHC L4 (8 Valve), 86.4mm Bore 1983-79 **6** Eng. Codes "138A2" 1979-82, "138AS" 1979, "138B2" 1980-82, "138BS" 1980-89

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	81-79	ST-2039	Positive type; Rubber
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	83-79	60987AF Std Only	Position 3

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<b>7 1.6L 1592cc DOHC L4 (8 Valve), 80mm Bore 1974-73</b> Eng. Codes "132A" 1972-78, "132AC" 1972-78				
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	74-73	ST-2039	Positive type; Rubber
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74-73	6445M Std-10-30	
1	Thrust Washer Set	74-73	62037AF Std Only	Position 3
1	Rod Set	74-73	4-66240RA Std Only	Brg. w/2 oil holes 30 deg. apart
<b>8 1.6L 1608cc DOHC L4 (8 Valve), 80mm Bore 1973-71</b> Eng. Code "125BC" 1971-73				
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	73-71	ST-2039	Positive type; Rubber
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	73-71	4659M10 10-20-30	
1	Thrust Washer Set	73-71	60987AF Std Only	Position 3
<b>9 1.8L 1756cc DOHC L4 (8 Valve), 84mm Bore 1978-74</b> Eng. Codes "132A" 1976-78, "132A1" 1974-78, "132AC" 1977-78				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	78-74	6445M Std-10-30	
1	Thrust Washer Set	78-74	62037AF Std Only	Position 3
1	Rod Set	78-74	4-66240RA Std Only	Brg. w/2 oil holes 30 deg. apart
<b>10 2.0L 1995cc DOHC L4 (8 Valve), 84mm Bore 1985-79</b> Eng. Codes "132B" 1979-82, "132C" 1981-82, "132C2" 1979-82, "132C3" 1980-87				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	85-79	6445M Std-10-30	
1	Thrust Washer Set	85-79	62037AF Std Only	Position 3
1	Rod Set	85-79	4-66240RA Std Only	Brg. w/2 oil holes 30 deg. apart



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Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 80.8 (1324cc) SOHC L4 71mm Bore (8 Valve) (Mazda Eng.)	1990-88	1	3.6L 223 OHV L6 3.625" Bore	1964-54	29
1.6L 97.5 (1597cc) SOHC L4 78mm Bore (8 Valve) (Mazda Eng.)	1989-87	2	3.7L 226 L-HEAD L6 3.2969" Bore	1951-41	30
1.6L 98 (1597cc) SOHC L4 80mm Bore (8 Valve)	1985-81	3	3.8L 232 (3797cc) OHV V6 96.8mm Bore	1990-82	31
1.6L 98 (1597cc) SOHC Turbo L4 80mm Bore (8 Valve)	1985-84	4	3.8L 232 (3797cc) OHV V6 96.8mm Bore (Supercharged)	1990-89	32
1.6L 98 (1598cc) OHV L4 81mm Bore (Fiesta)	1980-78	5	3.9L 239 OHV V8 3.5" Bore (Ford)	1954	33
1.6L 98 (1599cc) OHV L4 81mm Bore (Pinto/Capri)	1973-71	6	3.9L 239.4 L-HEAD V8 3.1875" Bore (Ford/Mercury)	1953-46	34
1.9L 114 (1868cc) SOHC L4 82mm Bore (8 Valve)	1990-85	7	3.9L 240 OHV L6 4" Bore	1972-65	35
2.0L 121.7 (1993cc) SOHC L4 90.8mm Bore (8 Valve)	1974-71	8	4.1L 250 OHV L6 3.68" Bore	1980-69	36
2.0L 122 (1998cc) SOHC Diesel L4 86mm Bore (8 Valve) (Mazda Eng.)	1987-84	9	4.2L 255 OHV V8 3.68" Bore	1982-80	37
2.2L 133 (2184cc) SOHC L4 86mm Bore (12 Valve) (Mazda Eng.)	1990-89	10	4.2L 255.4 L-HEAD V8 3.1875" Bore (Mercury)	1953-49	38
2.2L 133 (2184cc) SOHC Turbo L4 86mm Bore (12 Valve) (Mazda Eng.)	1990-89	11	4.2L 256 OHV V8 3.625" Bore (Mercury)	1954	39
2.3L 140 (2302cc) SOHC L4 96mm Bore (8 Valve)	1990-74	12	4.3L 260 OHV V8 3.7969" Bore	1965-62	40
2.3L 140 (2302cc) SOHC Turbo L4 96mm Bore (8 Valve)	1989-79	13	4.4L 272 OHV V8 3.625" Bore	1957-55	41
2.3L 140 OHV L4 3.679" Bore (HSC)	1990-84	14	4.7L 289 OHV V8 4" Bore	1968-63	42
2.4L 144 OHV L6 3.5" Bore	1964-60	15	4.8L 292 OHV V8 3.75" Bore	1962-55	43
2.4L 149 (2443cc) SOHC Turbo-Diesel L6 80mm Bore (12 Valve) (BMW Eng.)	1984	16	5.0L 302 OHV V8 4" Bore	1990-68	44
2.5L 153 OHV L4 3.679" Bore (HSC)	1990-86	17	5.1L 312 OHV V8 3.7969" Bore	1960-56	45
2.6L 155.6 (2551cc) OHV V6 90mm Bore (12 Valve)	1973-72	18	5.2L 317.5 OHV V8 3.8125" Bore (Lincoln)	1954-52	46
2.8L 170 OHV L6 3.5" Bore	1972-60	19	5.4L 332 OHV V8 4" Bore	1959-58	47
2.8L 171 (2792cc) OHV V6 93mm Bore (12 Valve)	1979-74	20	5.6L 341 OHV V8 3.9375" Bore (Lincoln)	1955	48
2.9L 177 (2935cc) OHV V6 93mm Bore (12 Valve)	1990-88	21	5.8L 351 OHV V8 4" Bore (Cleveland)	1974-70	49
3.0L 183 (2982cc) OHV V6 89mm Bore (12 Valve/Vulcan)	1990-86	22	5.8L 351 OHV V8 4" Bore (Modified)	1979-75	50
3.0L 183 (2982cc) DOHC V6 89mm Bore (24 Valve) (Yamaha Eng.)	1990-89	23	5.8L 351 OHV V8 4" Bore (Windsor)	1990-69	51
3.3L 200 OHV L6 3.68" Bore	1983-63	24	5.8L 352 OHV V8 4" Bore	1967-58	52
3.3L 200 L-HEAD L4 3.875" Bore (Models A & B)	1934-28	25	5.9L 361 OHV V8 4.05" Bore	1959-58	53
3.5L 215 OHV L6 3.5625" Bore	1953-52	26	6.0L 368 OHV V8 4" Bore (Lincoln)	1957-56	54
3.6L 221 OHV V8 3.5" Bore	1963-62	27	6.3L 383 OHV V8 4.2969" Bore (Mercury)	1960-58	55
3.6L 221 L-HEAD V8 3.0625" Bore (Ford)	1942-39	28	6.4L 390 OHV V8 4.05" Bore	1971-61	56
			6.6L 400 OHV V8 4" Bore	1979-71	57
			6.6L 406 OHV V8 4.125" Bore	1963-62	58
			6.7L 410 OHV V8 4.05" Bore (Mercury)	1967-66	59
			6.7L 410 OHV V8 4.2031" Bore (Edsel)	1958	60
			7.0L 427 OHV V8 4.2328" Bore	1969-63	61
			7.0L 428 OHV V8 4.13" Bore	1970-66	62
			7.0L 429 OHV V8 4.36" Bore	1973-68	63
			7.0L 430 OHV V8 4.2969" Bore	1965-58	64
			7.5L 460 OHV V8 4.36" Bore	1978-68	65
			7.6L 462 OHV V8 4.38" Bore (Lincoln)	1968-66	66

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
B3	1.3L 80.8 (1324cc) SOHC L4 71mm Bore (8 Valve) (Mazda Eng.)	1	M21D24	2.4L 149 (2443cc) SOHC Turbo-Diesel L6 80mm Bore (12 Valve) (BMW Eng.)	16
B6	1.6L 97.5 (1597cc) SOHC L4 78mm Bore (8 Valve) (Mazda Eng.)	2	RF	2.0L 122 (1998cc) SOHC Diesel L4 86mm Bore (8 Valve) (Mazda Eng.)	9
F2	2.2L 133 (2184cc) SOHC L4 86mm Bore (12 Valve) (Mazda Eng.)	10	2737E	1.6L 98 (1599cc) OHV L4 81mm Bore (Pinto/Capri)	6
F2-T	2.2L 133 (2184cc) SOHC Turbo L4 86mm Bore (12 Valve) (Mazda Eng.)	11	3036E	1.6L 98 (1598cc) OHV L4 81mm Bore (Fiesta)	5

1.3L 80.8 (1324cc) SOHC L4 (8 Valve), 71mm Bore (Mazda Eng.) 1990-88					
VIN Codes "H" 1989-97, "K" 1988-89, Eng. Code "B3" 1988-97					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90	222-B185	Square tooth	
1	Timing Belt	89-88	222-141	Round tooth	
1	Timing Belt Tensioner	89-88	222-164BT		
1	Timing Belt & Tensioner Set	90	BTS-185	Square tooth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90	CS-841		
1	Camshaft	89	CS-841	w/A/T	
1	Camshaft	89	CS-840	w/M/T	
1	Camshaft	88	CS-840		
8	Lifter	90-88	HT-2254	Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-88	HT-2254B	Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	90-88	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	90	KC-841		Hyd. lash adj.; Incl. (1) CS-841, (8) HT-2254, (1) 55-403B

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## 1 1.3L 80.8 (1324cc) SOHC L4 (8 Valve), 71mm Bore (Mazda Eng.) 1990-88

(cont.) VIN Codes "H" 1989-97, "K" 1988-89, Eng. Code "B3" 1988-97

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	89	KC-841	w/A/T; Hyd. lash adj.; Incl. (1) CS-841, (8) HT-2254, (1) 55-403B		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	90-88	V-2607 Std Only	1.1030" Head Dia., .2745" Stem Dia., 4.1010" O.A.L.		
4	Intake	90-88	V-2608 Std Only	1.2610" Head Dia., .2745" Stem Dia., 4.1440" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	90-88	VG-911	Exh. & Int.; .2765" ID, 1.9700" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	90-88	VS-1561	1.7250" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	90-88	ST-2118	Exh. & Int.; O.E. design; Positive type; Viton®		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Int.	90-88	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
	4	Cast Piston	90-88	546P Std-.50-.75-1.00MM	Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 1.107" CD, .7865" Pin Dia., Recessed Head .060" deep x 2.380" dia.	
	4	Cast Piston - Individual	90-88	W546P Std-.50-.75-1.00MM	Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 1.107" CD, .7865" Pin Dia., Recessed Head .060" deep x 2.380" dia.	
	1	Cast Piston Set w/Prem. Rings	90-88	4K546P Std-.75-1.00MM	Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 1.107" CD, 20.0mm Pin Dia., Recessed Head .126" deep	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	90-88	E-552KC Std-.25-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM	
	4	Premium Single Cylinder Set	90-88	WE-552KC Std-.25-.50-.75MM	1-1.20MM, 1-1.50MM, 1-3.00MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	90-88	7204M Std-.25-.50-.75MM	A-Series aluminum bearings	
	1	Thrust Washer Set	90-88	4176AF Std Only		
1	Rod Set	90-88	4-3910RA Std-.25-.50-.75-1.00MM			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	90-88	260-1560	PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.		
KITS	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION				
	90-88	Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring		205-6216	----
			Re-ring w/Mains		205-6216M	----
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION				
	90-88	PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block		BK-6181	----

## 2 1.6L 97.5 (1597cc) SOHC L4 (8 Valve), 78mm Bore (Mazda Eng.) 1989-87

VIN Codes "5" 1988-89, "7" 1987, Eng. Code "B6" 1987-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	89-87	222-141	Round tooth
1	Timing Belt Tensioner	89-87	222-164BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-88	CS-841	
1	Camshaft	87	CS-841	From 11/87
1	Camshaft	87	CS-840	To 10/87
8	Lifter	89-87	HT-2254 Std Only	Hyd. lash adj.
8	Lifter, Bulk	89-87	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	89-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	89-88	KC-841	Hyd. lash adj.; Incl. (1) CS-841, (8) HT-2254, (1) 55-403B
1	Cam/Lifter Kit	87	KC-841	From 11/87; Hyd. lash adj.; Incl. (1) CS-841, (8) HT-2254, (1) 55-403B
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	89-87	V-2590 Std Only	1.2600" Head Dia., .2745" Stem Dia., 4.0430" O.A.L.
4	Intake	89-87	V-2592 Std Only	1.4950" Head Dia., .2749" Stem Dia., 4.0860" O.A.L.

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## 1.6L 97.5 (1597cc) SOHC L4 (8 Valve), 78mm Bore (Mazda Eng.) 1989-87 **2**

VIN Codes "5" 1988-89, "7" 1987, Eng. Code "B6" 1987-89 (cont.)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	89-87	VG-911	Exh. & Int.; .2765" ID, 1.9700" O.A.L.
8	Spring	89-88	VS-1561	1.7250" Free Height
8	Spring	87	VS-1561	From 8/87; 1.7250" Free Height
8	Valve Stem Seal	89-87	ST-2118	Exh. & Int.; O.E. design; Positive type; Viton®
4	Exh.	89-87	245-1437-66 Std Only	1.4445" OD, 1.1200" ID, .3000" Depth
4	Int.	89-87	245-1625-54 Std Only	1.6320" OD, 1.3290" ID, .2800" Depth
4	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	89-87	541P Std-1.00MM	Use w/E-551KC or E-551X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.230" CD, .7865" Pin Dia., Recessed Head .020" deep x 2.580" dia.
4	Cast Piston - Individual	89-87	W541P Std Only	Use w/WE-551KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.230" CD, .7865" Pin Dia., Recessed Head .020" deep x 2.580" dia.
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-87	E-551KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	89-87	E-551X Std-.50MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	89-87	WE-551KC Std-.50MM	2-1.50MM, 1-4.00MM
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-87	7204M Std-.25-.50-.75MM	
1	Thrust Washer Set	89-87	4176AF Std Only	
1	Rod Set	89-87	4-4175CP Std-.25-.50-.75MM	
1	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	89-87	260-1764	Exh. heat shields not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-87	381-8062	

## 1.6L 98 (1597cc) SOHC L4 (8 Valve), 80mm Bore 1985-81 **3**

VIN Codes "2" 1981-85, "4" 1982-85 (H.O.), "5" 1983-85 (H.O.), "7" 1983 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85-81	222-67	
1	Timing Belt Tensioner	85-81	222-114BT	
1	Timing Belt & Tensioner Set	85-81	BTS-67	Square tooth
8	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	85-81	HT-2102 Std Only	Hyd.
8	Lifter, Bulk	85-81	HT-2102B Std Only	Hyd. lash adj.; Carton of 122
8	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	85-81	R-1053	Incl. arm, ball & nut
8	Arm Assy., Bulk	85-81	R-1053B	Incl. arm, ball & nut; Carton of 64
8	Arm	85-81	R-904A	
4	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	85-81	V-2201 Std Only	Chrome plated stem; 1.4570" Head Dia., .3152" Stem Dia., 5.1890" O.A.L.
8	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	85-81	VG-736	Use if orig. run-out from ID to OD is over .005"; .3175" ID, 2.5180" O.A.L.
8	Guide	85-81	VG-737	Use if orig. run-out from ID to OD is under .005"; .3175" ID, 2.5180" O.A.L.
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	85-81	ST-2088	Exh. & Int.; w/o flange; Positive type; Rubber/PTFE
4	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	85-81	245-1562-54 Std Only	1.5695" OD, 1.2200" ID, .3440" Depth
4	Int.	85-81	245-1750-60 Std Only	1.555" ID top taper; 1.7570" OD, 1.4370" ID, .3020" Depth
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85-81	VK-204	3 groove; w/.3125 Stem Dia.
4	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	85-83	488P.50MM .50MM	Cast; 1-1.60mm, 1-2.00mm, 1-4.00mm Ring Groove, 1.562" CD, .8121" Pin Dia., Domed Head; Contoured - 9.0:1 C.R.
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	85-81	E-410X Std-.50-.75-1.00MM	1-1.60MM, 1-2.00MM, 1-4.00MM

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<b>3 1.6L 98 (1597cc) SOHC L4 (8 Valve), 80mm Bore 1985-81</b>					
<b>(cont.) VIN Codes "2" 1981-85, "4" 1982-85 (H.O.), "5" 1983-85 (H.O.), "7" 1983 (Flex Fuel)</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Premium Single Cylinder Set	85-81	<b>WE-410K.75MM</b> .75MM	1-1.60MM, 1-2.00MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	85-81	<b>5109MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b> ; Full grooved
1	Rod Set	85-81	<b>4-3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
4	Rod Pair	85-81	<b>3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Head Bolt Set	85-81	<b>260-2503</b>	Replacement req'd.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	85-81	<b>381-8062</b>		
<b>4 1.6L 98 (1597cc) SOHC Turbo L4 (8 Valve), 80mm Bore 1985-84</b>					
<b>VIN Code "8" 1984-85</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt & Tensioner Set	85-84	<b>BTS-67</b>	Square tooth
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	85-84	<b>5109MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b> ; Full grooved
1	Rod Set	85-84	<b>4-3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
4	Rod Pair	85-84	<b>3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Head Bolt Set	85-84	<b>260-2503</b>	Replacement req'd.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	85-84	<b>381-8062</b>		
<b>5 1.6L 98 (1598cc) OHV L4 (Fiesta), 81mm Bore 1980-78</b>					
<b>Eng. Code "3036E" 1978-80</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain	80-78	<b>222-172</b>	46 Links
	1	Crank Sprocket	80-78	<b>223-423</b>	17 Teeth
	1	Cam Sprocket	80-78	<b>223-504</b>	34 Teeth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	80-78	<b>VG-5044</b>	.3120" ID, 2.0000" O.A.L.	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	80-78	<b>245-1375-1</b> Std Only	1.3795" OD, 1.1250" ID, .2160" Depth	
4	Int.	80-78	<b>245-1437-1</b> Std Only	1.4420" OD, 1.2500" ID, .2160" Depth	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Cast Piston	80-78	<b>476P</b> Std-.50-.75-1.00MM	Cast; 1-1/16", 1-5/64", 1-5/32" Ring Groove, 1.633" CD, .8120" Pin Dia., Recessed Head .500" deep x 2.290" dia. - 8.6:1 C.R.	
4	Cast Piston - Individual	80-78	<b>W476P</b> Std-.50-.75-1.00MM	Cast; 1-1/16", 1-5/64", 1-5/32" Ring Groove, 1.633" CD, .8120" Pin Dia., Recessed Head .500" deep x 2.290" dia. - 8.6:1 C.R.	
4	Pin Bushing	80-78	<b>2789Y20</b>		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	80-78	<b>E-405K20</b> 20-30-40	1-1/16, 1-5/64, 1-5/32	
1	Standard Set	80-78	<b>E-405X</b> Std Only	1-1/16, 1-5/64, 1-5/32	
4	Premium Single Cylinder Set	80-78	<b>WE-405K30</b> 30	1-1/16, 1-5/64, 1-5/32	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	80-78	<b>5083M</b> Std Only		
1	Thrust Washer Set	80-78	<b>2786BF</b> Std Only	Position 3	
1	Rod Set	80-78	<b>4-2785CP</b> Std-10-20-30		
1	Cam Set	80-78	<b>1459M</b> Std Only		
1	Aux. Shaft Set	80-78	<b>1731M</b>		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	80-78	<b>260-1111</b>	Premium valve stem seals incl.	
<b>6 1.6L 98 (1599cc) OHV L4 (Pinto/Capri), 81mm Bore 1973-71</b>					
<b>VIN Codes "L" 1971-72, "W" 1971-73, Eng. Code "2737E" 1971-73</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain	73-71	<b>222-172</b>	46 Links
	1	Crank Sprocket	73-71	<b>223-423</b>	17 Teeth
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	73-71	<b>VG-5044</b>	.3120" ID, 2.0000" O.A.L.	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	73-71	<b>MV-1828C</b>	Positive type; Polyacrylate	
8	Valve Stem Seal Bulk	73-71	<b>MV-1828</b>	Positive type; Carton of 50; Polyacrylate	

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<b>1.6L 98 (1599cc) OHV L4 (Pinto/Capri), 81mm Bore 1973-71</b> <b>6</b> VIN Codes "L" 1971-72, "W" 1971-73, Eng. Code "2737E" 1971-73 (cont.)				
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exh.	73-71	<b>245-1375-1</b> Std Only	1.3795" OD, 1.1250" ID, .2160" Depth
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Pin Bushing	73-71	<b>2789Y20</b>	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	73-71	<b>4865M</b> Std-10-20	
1	Thrust Washer Set	73-71	<b>2786BF</b> Std Only	Position 3
1	Rod Set	73-71	<b>4-2785CP</b> Std-10-20-30	
1	Cam Set	73-71	<b>1459M</b> Std Only	
<b>1.9L 114 (1868cc) SOHC L4 (8 Valve), 82mm Bore 1990-85</b> <b>7</b> VIN Codes "J" 1985-90 (H.O.), "J" 1991-96, "9" 1985-90				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-85	<b>222-67</b>	
1	Timing Belt Tensioner	90-85	<b>222-114BT</b>	
1	Timing Belt & Tensioner Set	90-85	<b>BTS-67</b>	Square tooth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	90	<b>CS-863</b>	VIN Code "J"; w/r/r. lifters
1	Camshaft	89-87	<b>CS-791</b>	VIN Code "J"; w/flat lifters
1	Camshaft	89-87	<b>CS-863</b>	VIN Code "J"; w/r/r. lifters
1	Camshaft	89-87	<b>CS-790</b>	VIN Code "9"; w/flat lifters
8	Lifter	90	<b>HT-2217</b> Std Only	Hyd. rlr.
8	Lifter	89-87	<b>HT-2102</b> Std Only	Hyd.
8	Lifter	89-87	<b>HT-2217</b> Std Only	Hyd. rlr.
8	Lifter	86-85	<b>HT-2102</b> Std Only	Hyd.
8	Lifter, Bulk	90	<b>HT-2217B</b> Std Only	Hyd. rlr.; Carton of 122
8	Lifter, Bulk	89-87	<b>HT-2102B</b> Std Only	Hyd. lash adj.; Carton of 122
8	Lifter, Bulk	89-87	<b>HT-2217B</b> Std Only	Hyd. rlr.; Carton of 122
8	Lifter, Bulk	86-85	<b>HT-2102B</b> Std Only	Hyd. lash adj.; Carton of 122
1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90	<b>KC-863</b>	VIN Code "J"; Hyd. rlr.; Incl. (1) CS-863, (8) HT-2217, (1) 55-403B
1	Cam/Lifter Kit	89-87	<b>KC-791</b>	VIN Code "J"; Hyd. lash adj.; w/flat lifters; Incl. (1) CS-791, (8) HT-2102, (1) 55-403B
1	Cam/Lifter Kit	89-87	<b>KC-863</b>	VIN Code "J"; Hyd. rlr.; Incl. (1) CS-863, (8) HT-2217, (1) 55-403B
1	Cam/Lifter Kit	89-87	<b>KC-790</b>	VIN Code "9"; Hyd. lash adj.; w/flat lifters; Incl. (1) CS-790, (8) HT-2102, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-790</b>	VIN code "9"; Hyd. lash adj.; w/flat lifters; Incl. (1) CS-790, (8) HT-2102, (1) 222-67, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-791</b>	VIN Code "J"; Hyd. lash adj.; w/flat lifters; Incl. (1) CS-791, (8) HT-2102, (1) 222-67, (1) 55-403B
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	90-85	<b>R-1053</b>	Incl. arm, ball & nut
8	Arm Assy., Bulk	90-85	<b>R-1053B</b>	Incl. arm, ball & nut; Carton of 64
8	Arm	90-85	<b>R-904A</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	90-87	<b>V-2201</b> Std Only	VIN Code "J"; Chrome plated stem; 1.4570" Head Dia., .3152" Stem Dia., 5.1890" O.A.L.
4	Exhaust	90-87	<b>V-2445</b> Std-15	VIN Code "9"; 3 groove; Chrome plated stem; 1.3390" Head Dia., .3152" Stem Dia., 5.2710" O.A.L.
4	Exhaust	86-85	<b>V-2201</b> Std Only	Chrome plated stem; 1.4570" Head Dia., .3152" Stem Dia., 5.1890" O.A.L.
4	Exhaust, Bulk	90-87	<b>V-2445B15</b> 15	VIN Code "9"; 3 groove; Chrome plated stem; Carton of 25; 1.3390" Head Dia., .3302" Stem Dia., 5.2710" O.A.L.
4	Intake	90-87	<b>V-2446</b> Std-15	VIN Code "9"; 3 groove; Chrome plated stem; 1.5350" Head Dia., .3163" Stem Dia., 5.3830" O.A.L.
4	Intake, Bulk	90-87	<b>V-2446B15</b> 15	VIN Code "9"; 3 groove; Chrome plated stem; Carton of 25; 1.5350" Head Dia., .3313" Stem Dia., 5.3830" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	90-85	<b>VG-736</b>	Use if orig. run-out from ID to OD is over .005"; .3175" ID, 2.5180" O.A.L.
8	Guide	90-85	<b>VG-737</b>	Use if orig. run-out from ID to OD is under .005"; .3175" ID, 2.5180" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90-85	<b>ST-2088</b>	Positive type; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Int.	90-87	<b>245-1625-62</b> Std Only	1.6320" OD, 1.3200" ID, .3000" Depth
4	Exh.	90-85	<b>245-1562-54</b> Std Only	1.5695" OD, 1.2200" ID, .3440" Depth

**VALVE TRAIN**
**VALVE TRAIN**

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**7 1.9L 114 (1868cc) SOHC L4 (8 Valve), 82mm Bore 1990-85**  
 (cont.) VIN Codes "J" 1985-90 (H.O.), "J" 1991-96, "9" 1985-90

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
4	Int.	90-85	<b>245-1750-60</b> Std Only	1.555" ID top taper; 1.7570" OD, 1.4370" ID, .3020" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-85	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-87	<b>H529P</b> Std-.50-.75-1.00MM	VIN Code "9"; Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.277" CD, .8121" Pin Dia., Recessed Head .085" deep w/2 valve reliefs - 9.0:1 C.R.
4	Cast Piston - Individual	90-87	<b>WH529P</b> Std-.50-.75-1.00MM	VIN Code "9"; Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.277" CD, .8121" Pin Dia., Recessed Head .085" deep w/2 valve reliefs - 9.0:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	<b>E-470KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
1	Premium Set	86-85	<b>E-469KC</b> Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	90-87	<b>E-470X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
1	Standard Set	86-85	<b>E-469X</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-87	<b>WE-470KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	86-85	<b>WE-469KC</b> Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	<b>6695MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Rod Set	90-87	<b>4-1400AA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Rod Set	86-85	<b>4-3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
4	Rod Pair	90-87	<b>1400AA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
4	Rod Pair	86-85	<b>3805A</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-85	<b>224-41972</b>	
1	Screen Assy.	90-85	<b>224-11972</b>	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-86	<b>260-1205</b>	Head bolts incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1205</b>	w/Alum. valve cover; Head bolts incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-85	<b>260-2503</b>	Replacement req'd.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-85	<b>381-8062</b>	
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-87	Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6103M</b>	<b>205-1103M</b>
90-87	Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6103</b>	<b>205-1103</b>
86	Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-876</b>	----
86	Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains	<b>205-876M</b>	----
85	w/Alum. valve cover; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-876</b>	----
85	w/Alum. valve cover; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains	<b>205-876M</b>	----
<b>OVERHAUL KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90	VIN Code "J"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/rtr. lifters; Incl. 3/4 grooved main brgs.	Master w/o Pistons	<b>MK-6103E</b>	<b>MK-1103E</b>

(continued on next page)

# Ford Car

## 1.9L 114 (1868cc) SOHC L4 (8 Valve), 82mm Bore 1990-85 **7** VIN Codes "J" 1985-90 (H.O.), "J" 1991-96, "9" 1985-90 (cont.)

K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S	
	YEARS	DESCRIPTION					
	90-87	VIN Code "9"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block		<b>BKP-6104</b> <b>BK-6104</b>		----- -----
	89-87	VIN Code "J"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/flat lifters; Incl. 3/4 grooved main brgs.	Master w/o Pistons		<b>MK-6103A</b>		<b>MK-1103A</b>
	89-87	VIN Code "9"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/flat lifters	Master		<b>MKP-6103C</b>		<b>MKP-1103C</b>
	89-87	VIN Code "9"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/flat lifters; Incl. 3/4 grooved main brgs.	Master w/o Pistons		<b>MK-6103C</b>		<b>MK-1103C</b>
	89-87	VIN Code "9"; Head bolts incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/flat lifters	Master w/o Rods & Mains		<b>505-6103C</b>		<b>505-1103C</b>
89-87	VIN Code "J"; Head bolts incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/r/r. lifters; Incl. 3/4 grooved main brgs.	Master w/o Pistons		<b>MK-6103E</b>	<b>MK-1103E</b>		

## 2.0L 121.7 (1993cc) SOHC L4 (8 Valve), 90.8mm Bore 1974-71 **8** VIN Code "X" 1971-74

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E  T R A I N
	1	Timing Belt	74-71	<b>222-13</b>		
	8	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
		Guide	74-71	<b>VG-5016</b>	Guide top OD is cut for MV-1828 seal; .3175" ID, 2.0000" O.A.L.	
	8	Guide	74-71	<b>VG-5016T</b>	Guide top OD is cut for MV-1828 seal; Threaded; .3175" ID, 2.0000" O.A.L.	
	8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
		Valve Stem Seal	74-71	<b>MV-1828C</b>	Positive type; Polyacrylate	
	8	Valve Stem Seal Bulk	74-71	<b>MV-1828</b>	Positive type; Carton of 50; Polyacrylate	
	4	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
		Exh.	74-71	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth	
4	Exh.	74-71	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth		
4	Int.	74-71	<b>245-1750-3N</b> Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth		
4	Int.	74-71	<b>245-1750-3</b> Std Only	1.7555" OD, 1.4375" ID, .2160" Depth		
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	Keeper	74-71	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.		
8	Spring Insert	74-71	<b>259-105B</b>	.030"; Carton of 100		
4	PISTON	YEARS	PART NO.	DESCRIPTION	B L O C K	
	Cast Piston	74-71	<b>397P</b> Std-30-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.588" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.		
4	Cast Piston - Individual	74-71	<b>W397P</b> Std-30-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.588" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.		
4	RINGS	YEARS	PART NO.	DESCRIPTION		
	Premium Single Cylinder Set	74-71	<b>WE-315KC</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM		
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	Main Set	74-71	<b>5035M10</b> 10	w/Standard housing bore		
1	Thrust Washer Set	74-71	<b>3461AFA</b> Std Only	Position 3		
1	Rod Set	74-71	<b>4-3460RA</b> Std-10-20			
1	Cam Set	74-71	<b>1412M</b> Std Only			
1	Aux. Shaft Set	74-71	<b>1731M</b>			
1	GASKETS	YEARS	PART NO.	DESCRIPTION		
	Kit Gasket Set	74-71	<b>260-1015</b>	Premium valve stem seals incl.		
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	Brass Block Plug Kit	74-71	<b>381-8028</b>			

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## 9 2.0L 122 (1998cc) SOHC Diesel L4 (8 Valve), 86mm Bore (Mazda Eng.) 1987-84

VIN Code "H" 1984-87, Eng. Code "RF" 1984-87

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	87-84	245-1687-57 Std Only	1.687" OD
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	87-84	VK-207	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	87-84	4-67309Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-84	E-594KC Std Only	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-84	6645MA Std-.25-.50MM	A-Series aluminum bearings
1	Rod Set	87-84	4-3975P Std-.25-.50-.75-1.00MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	87-84	381-8029	

## 10 2.2L 133 (2184cc) SOHC L4 (12 Valve), 86mm Bore (Mazda Eng.) 1990-89

VIN Code "C" 1989-92, Eng. Code "F2" 1989-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90-89	222-134		
1	Timing Belt Tensioner	90-89	222-166BT		
1	Timing Belt & Tensioner Set	90-89	BTS-134		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90-89	CS-1509		
12	Lifter	90-89	HT-2254 Std Only	Hyd. lash adj.	
12	Lifter, Bulk	90-89	HT-2254B Std Only	Hyd. lash adj.; Carton of 128	
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	90-89	KC-1509	Hyd. lash adj.; Incl. (1) CS-1509, (12) HT-2254, (1) 55-403B	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	90-89	V-2614 Std Only	Chrome plated stem; 1.3390" Head Dia., .2745" Stem Dia., 4.5700" O.A.L.	
4	Intake	90-89	V-2615 Std Only	Chrome plated stem; 1.2800" Head Dia., .2747" Stem Dia., 4.5620" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	90-89	VG-927	.2761" ID, 2.0867" O.A.L.	
8	Guide	90-89	VG-1376	Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
4	Spring	90-89	VS-1573	Exh.; 1.9450" Free Height	
8	Spring	90-89	VS-1574	Int.; 1.9220" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	90-89	ST-2118	Exh. & Int.; O.E. design; Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	90-89	245-1375-56 Std Only	1.3820" OD, 1.1020" ID, .2600" Depth	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-89	E-542K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Premium Set	90-89	E-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	90-89	E-542X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	90-89	WE-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-89	6692M Std-.25-.50-.75MM		
1	Rod Set	90-89	4-3975P Std-.25-.50-.75-1.00MM		
1	Cam Set	90-89	1863M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-89	224-41995		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-89	260-1765	Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-89	381-8100	Eng. Code "F2"	
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
90-89	Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6861	205-1861
			Re-ring w/Mains	205-6861M	205-1861M



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## 2.2L 133 (2184cc) SOHC Turbo L4 (12 Valve), 86mm Bore (Mazda Eng.) 1990-89 11

VIN Code "L" 1989-92, Eng. Code "F2-T" 1989-92

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90-89	222-134	
	1	Timing Belt & Tensioner Set	90-89	BTS-134	
	1	Belt Idler	90-89	222-215BT	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	90-89	CS-1509	
	12	Lifter	90-89	HT-2254 Std Only	Hyd. lash adj.
	12	Lifter, Bulk	90-89	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-89	KC-1509	Hyd. lash adj.; Incl. (1) CS-1509, (12) HT-2254, (1) 55-403B	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	90-89	V-4355 Std Only	Chrome plated stem; 1.3390" Head Dia., .2745" Stem Dia., 4.6420" O.A.L.	
4	Intake	90-89	V-2615 Std Only	Chrome plated stem; 1.2800" Head Dia., .2747" Stem Dia., 4.5620" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	90-89	VG-927	.2761" ID, 2.0867" O.A.L.	
8	Guide	90-89	VG-1376	Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
4	Spring	90-89	VS-1573	Exh.; 1.9450" Free Height	
8	Spring	90-89	VS-1574	Int.; 1.9220" Free Height	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	90-89	245-1375-56 Std Only	1.3820" OD, 1.1020" ID, .2600" Depth	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90-89	E-542K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	Premium Set	90-89	E-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	90-89	WE-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90-89	6692M Std-.25-.50-.75MM	
	1	Rod Set	90-89	4-3975P Std-.25-.50-.75-1.00MM	
1	Cam Set	90-89	1863M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-89	224-41995		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-89	260-1765	Turbo mtg. gskts. not incl.; Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-89	381-8100	Eng. Code "F2-T"	
		RE-RING KIT			
	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-89	Turbo mtg. gskts. not incl.; Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6861	----
			Re-ring w/Mains	205-6861M	----

## 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74 12

VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90-74	222-14	
	1	Timing Belt Tensioner	90-74	222-11BT	
	1	Timing Belt & Tensioner Set	90-74	BTS-14	Use w/square tooth sprocket
	1	Crank Sprocket	90-74	223-447	19 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90-87	CS-767		
1	Camshaft	86-85	CS-666		
1	Camshaft	84-82	CS-666		
1	Camshaft	81-74	CS-666		
8	Lifter	90-74	HT-2012 Std Only	Hyd. lash adj.; Std. length	
8	Lifter, Bulk	90-74	HT-2012B Std Only	Hyd. lash adj.; Std. length; Carton of 120	
1	Prelube	90-74	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	90-87	KC-767	Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B	
1	Cam/Lifter Kit	86-85	KC-666	Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B	

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## 12 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74

(cont.) VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	84-82	KC-666	Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B
1	Cam/Lifter Kit	81-74	KC-666	Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B
1	Cam/Flwr. Kit	90-87	KC-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	86-85	KC-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	84-82	KC-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	81-74	KC-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	90-87	KC-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	86-85	KC-666C	Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	84-82	KC-666C	Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	81-74	KC-666C	Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-87	KCT-767	Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	90-87	KCT-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	86-85	KCT-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	84-82	KCT-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	81-74	KCT-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	90-87	KCT-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	86-85	KCT-666C	Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	84-82	KCT-666C	Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	81-74	KCT-666C	Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-74	R-873	
8	Arm, Bulk	90-74	R-873B	Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-74	V-3943 Std-15	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.7920" O.A.L.
4	Exhaust, Bulk	90-74	V-3943B15 15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3564" Stem Dia., 4.7920" O.A.L.
4	Intake	90-77	V-2170 Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4	Intake	76	V-2170 Std-15	From Change LY-9; Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4	Intake	76	V-2456 Std-15	To change LY-9; Chrome plated stem; 1.7323" Head Dia., .3415" Stem Dia., 4.7854" O.A.L.
4	Intake	75-74	V-2456 Std-15	Chrome plated stem; 1.7323" Head Dia., .3415" Stem Dia., 4.7854" O.A.L.
4	Intake, Bulk	90-77	V-2170B15 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.
4	Intake, Bulk	76	V-2170B15 15	From Change LY-9; Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.
4	Intake, Bulk	76	V-2456B15 15	To change LY-9; Chrome plated stem; Carton of 25; 1.7323" Head Dia., .3565" Stem Dia., 4.7854" O.A.L.
4	Intake, Bulk	75-74	V-2456B15 15	Chrome plated stem; Carton of 25; 1.7323" Head Dia., .3565" Stem Dia., 4.7854" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-74	VG-5045	.3440" ID, 2.1800" O.A.L.
8	Guide	90-74	VG-1372	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	90-79	ST-2092	Exh. & Int.; O.E. design; Positive type; Rubber
4	Valve Stem Seal	85	ST-2004	Exh.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	84-74	ST-2003	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
4	Valve Stem Seal Bulk	85	ST-2004BC	Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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**2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74 12**

VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79 (cont.)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal Bulk	84-74	ST-2003BC	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-74	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	90-74	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	90-74	245-1812-2 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-74	VK-205	4 groove
16	Keeper	90-74	VK-205R	4 groove; Hardened
8	Spring Insert	90-74	259-102C	.015"; Carton of 100
8	Spring Insert	90-74	259-102B	.030"; Carton of 100
8	Spring Insert	90-74	259-102A	.060"; Carton of 100
8	Spring Insert	90-74	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-83	H435P Std-20-30-40-60	Use w/E-352K or E-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	90-83	H537P Std-20-30-40-60	Use w/E-442KC or E-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston	86-85	495P Std-20-30-40	Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	84	495P Std-20-30-40	VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	83	495P Std-20-30-40	From 8/82; VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	82-74	H435P Std-20-30-40-60	Use w/E-352K or E-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	90-83	WH435P Std-20-30-40-60	Use w/WE-352K or WE-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	90-83	WH537P Std-20-30-40-60	Use w/WE-442KC or WE-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston - Individual	86-85	W495P Std-20-30-40	Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	84	W495P Std-20-30-40	VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	83	W495P Std-20-30-40	From 8/82; VIN Code "A"; Use w/WE-442KC or WE-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	82-74	WH435P Std-20-30-40-60	Use w/WE-352K or WE-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Powerforged	78-74	L-2455F.75MM .75-1.00MM	Use w/E-352K or E-352X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
4	Forged Piston - Individual	78-74	WL-2455F.75MM 1.00-.75MM	Use w/WE-352K or WE-352X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-442KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-85	E-352K Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Premium Set	89-87	E-442KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Premium Set	86-83	E-442KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Premium Set	84-74	E-352K Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Standard Set	90	E-442X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM

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# Ford Car

## 12 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74

(cont.) VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Standard Set	90-85	<b>E-352X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Standard Set	89-87	<b>E-442X</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	86-83	<b>E-442X</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	84-74	<b>E-352X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set 90		<b>WE-442KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set 90-85		<b>WE-352K</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set 89-87		<b>WE-442KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set 86-83		<b>WE-442KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set 84-74		<b>WE-352K</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Standard Single Cylinder Set 90-85		<b>WE-352X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Standard Single Cylinder Set 84-74		<b>WE-352X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-74	<b>4979M</b> Std-.25-.50-.75-1.00MM	
1	Rod Set	90-74	<b>4-3545A</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
4	Rod Pair	90-74	<b>3545A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Cam Set	90-74	<b>1443M</b> Std Only	
1	Cam Set	90-74	<b>1842M</b> Std Only	Spec. oil control brg., differs from O.E. design, 360 Degree OD groove
1	Aux. Shaft Set	90-74	<b>1460M</b>	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	<b>224-43405</b>	
1	Oil Pump	90-80	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan
1	Oil Pump	89	<b>224-43405</b>	Mustang & Thunderbird
1	Oil Pump	88-87	<b>224-41127</b>	Mustang
1	Oil Pump	88-87	<b>224-43405</b>	Thunderbird
1	Oil Pump	86	<b>224-41127</b>	
1	Oil Pump	85	<b>224-41127</b>	From 4/9/85
1	Oil Pump	85	<b>224-41160</b>	To 4/8/85
1	Oil Pump	84-79	<b>224-41160</b>	
1	Oil Pump	79-74	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan
1	Oil Pump	78-74	<b>224-41160</b>	
1	Inter. Shaft	90-74	<b>224-61160</b>	
1	Screen Assy.	90	<b>224-12160</b>	
1	Screen Assy.	89	<b>224-13160</b>	Mustang
1	Screen Assy.	89-87	<b>224-12160</b>	Thunderbird & Cougar
1	Screen Assy.	88-87	<b>224-13160</b>	Mustang
1	Screen Assy.	85	<b>224-13160</b>	From 4/9/85
1	Screen Assy.	85	<b>224-12160</b>	To 4/8/85
1	Screen Assy.	84-81	<b>224-12160</b>	
1	Screen Assy.	80	<b>224-12160</b>	Granada & Mustang
1	Screen Assy.	80-79	<b>224-11160</b>	Pinto & Bobcat
1	Screen Assy.	79	<b>224-12160</b>	Mustang
1	Screen Assy.	78	<b>224-11160</b>	Exc. Fairmont & Zephyr
1	Screen Assy.	78	<b>224-12160</b>	Fairmont & Zephyr
1	Screen Assy.	77-74	<b>224-11160</b>	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	<b>260-1434</b>	PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88-87	<b>260-1206</b>	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1206</b>	From 2/20/86; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1162</b>	To 2/19/86; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1162</b>	Premium valve stem seals incl.
1	Kit Gasket Set	84-82	<b>260-1161</b>	Premium valve stem seals incl.
1	Kit Gasket Set	81	<b>260-1161</b>	From 9/29/81; Premium valve stem seals incl.
1	Kit Gasket Set	81	<b>260-1018</b>	To 9/28/81; Premium valve stem seals incl.
1	Kit Gasket Set	80-74	<b>260-1018</b>	Premium valve stem seals incl.

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# Ford Car

2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74 **12**

VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79 (cont.)

QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Head Bolt Set	90-74	260-2510	Replacement recommended		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-74	381-8029			
1	Steel Block Plug Kit	90-74	381-4022			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
90	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove			Re-ring Re-ring w/Mains	205-6105 205-6105M	205-1105 205-1105M
90-89	Incl. <b>A-Series aluminum bearings</b> PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; For pistons w/2-2.00MM, 1-4.76MM ring groove			Re-ring Re-ring w/Mains	----- -----	205-1944 205-1944M
89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove			Re-ring Re-ring w/Mains	205-6105 205-6105M	205-1105 205-1105M
88	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-878 205-878M	----- -----
87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-878 205-878M	----- -----
86	To 2/19/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-753 205-753M	----- -----
86	From 2/20/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-878 205-878M	----- -----
85	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-753 205-753M	----- -----
84-82	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-752 205-752M	205-252 205-252M
81	To 9/28/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-646 205-646M	205-146 205-146M
81	From 9/29/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-752 205-752M	205-252 205-252M
80-74	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-646 205-646M	205-146 205-146M
<b>OVERHAUL KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
90	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan			Master Master w/o Pistons	MKP-6105A MK-6105A	----- -----
90	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan			Master w/o Rods & Mains	505-6105A	-----
90-89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. H537P piston			Block w/Pump & Freeze Plugs Block	BKP-6112 BK-6112	----- -----
90-89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. H435P piston			Block w/Pump & Freeze Plugs Block	BKP-6113 BK-6113	----- -----
89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan			Master Master w/o Pistons	MKP-6105A MK-6105A	----- -----
89	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan			Master w/o Rods & Mains	505-6105A	-----
88-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan			Master Master w/o Pistons	MKP-878C MK-878C	----- -----

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# Ford Car

## 12 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-74

(cont.) VIN Codes "A" 1980-90, "M" 1991-93, "Y" 1974-79

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	88-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	505-878C	----	
	86	To 2/19/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-753A MK-753A	----	
	86	To 2/19/86; Premium valve stem seals incl.	505-753A	----	
	86	From 2/20/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	MKP-878A MK-878A	----	
	86	From 2/20/86; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-878A	----	
	85	From 4/9/85; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-753A MK-753A	----	
	85	From 4/9/85; Premium valve stem seals incl.	505-753A	----	
	84-82	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-752A MK-752A	MKP-252A MK-252A	
	84-82	Premium valve stem seals incl.	505-752A	505-252A	
	81	To 9/28/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-646A MK-646A	MKP-146A MK-146A	
	81	To 9/28/81; Premium valve stem seals incl.	505-646A	505-146A	
	81	From 9/29/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-752A MK-752A	MKP-252A MK-252A	
	81	From 9/29/81; Premium valve stem seals incl.	505-752A	505-252A	
	80-74	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	MKP-646A MK-646A	MKP-146A MK-146A	
	80-74	Premium valve stem seals incl.	505-646A	505-146A	

## 13 2.3L 140 (2302cc) SOHC Turbo L4 (8 Valve), 96mm Bore 1989-79

VIN Codes "D" 1983, "T" 1980-88, "W" 1979-89

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Timing Belt	89-83	222-14		
1	Timing Belt	80-79	222-14			
1	Timing Belt Tensioner	89-83	222-11BT			
1	Timing Belt Tensioner	80-79	222-11BT			
1	Timing Belt & Tensioner Set	89-83	BTS-14		Use w/square tooth sprocket	
1	Timing Belt & Tensioner Set	80-79	BTS-14		Use w/square tooth sprocket	
1	Crank Sprocket	89-83	223-447		19 Teeth	
1	Crank Sprocket	80-79	223-447		19 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	88-86	CS-767	VIN Code "W"	
	1	Camshaft	86	CS-666	VIN Code "T"	
	1	Camshaft	85	CS-666	From 2/4/85; VIN Code "T"	
	1	Camshaft	85	CS-767	To 2/3/85; VIN Code "T"	
	1	Camshaft	85	CS-767	VIN Code "W"	
	1	Camshaft	84-83	CS-767		
	8	Lifter	88-83	HT-2012 Std Only	Hyd. lash adj.; Std. length	
	8	Lifter, Bulk	88-83	HT-2012B Std Only	Hyd. lash adj.; Std. length; Carton of 120	
	1	Prelube	88-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	88-86	KC-767	VIN Code "W"; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B	
	1	Cam/Lifter Kit	86	KC-666	VIN Code "T"; Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B	
	1	Cam/Lifter Kit	85	KC-666	From 2/4/85; VIN Code "T"; Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B	
	1	Cam/Lifter Kit	85	KC-767	To 2/3/85; VIN Code "T"; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B	
	1	Cam/Lifter Kit	85	KC-767	VIN Code "W"; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B	
	1	Cam/Lifter Kit	84-83	KC-767	Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B	
	1	Cam/Flwr. Kit	88-86	KC-767A	VIN Code "W"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B	

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# Ford Car

**2.3L 140 (2302cc) SOHC Turbo L4 (8 Valve), 96mm Bore 1989-79 13**

VIN Codes "D" 1983, "T" 1980-88, "W" 1979-89 (cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Flwr. Kit	86	<b>KC-666A</b>	VIN Code "T"; Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	85	<b>KC-666A</b>	From 2/4/85; VIN Code "T"; Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	85	<b>KC-767A</b>	To 2/3/85; VIN Code "T"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	85	<b>KC-767A</b>	VIN Code "W"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	84-83	<b>KC-767A</b>	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	88-86	<b>KC-767C</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	86	<b>KC-666C</b>	VIN Code "T"; Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	85	<b>KC-666C</b>	From 2/4/85; VIN Code "T"; Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	85	<b>KC-767C</b>	To 2/3/85; VIN Code "T"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	85	<b>KC-767C</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	84-83	<b>KC-767C</b>	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Timing Kit	88-86	<b>KCT-767</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	<b>KCT-767</b>	To 2/3/85; VIN Code "T"; Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	<b>KCT-767</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-83	<b>KCT-767</b>	Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	88-86	<b>KCT-767A</b>	VIN Code "W"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	86	<b>KCT-666A</b>	VIN Code "T"; Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	85	<b>KCT-666A</b>	From 2/4/85; VIN Code "T"; Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	85	<b>KCT-767A</b>	To 2/3/85; VIN Code "T"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	85	<b>KCT-767A</b>	VIN Code "W"; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	84-83	<b>KCT-767A</b>	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	88-86	<b>KCT-767C</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	86	<b>KCT-666C</b>	VIN Code "T"; Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	85	<b>KCT-666C</b>	From 2/4/85; VIN Code "T"; Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	85	<b>KCT-767C</b>	To 2/3/85; VIN Code "T"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	85	<b>KCT-767C</b>	VIN Code "W"; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	84-83	<b>KCT-767C</b>	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
<b>VALVE TRAIN</b>				
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	88-83	<b>R-873</b>	
8	Arm, Bulk	88-83	<b>R-873B</b>	Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Intake	88-83	<b>V-2170</b> Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4	Intake	80-79	<b>V-2170</b> Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4	Intake, Bulk	88-83	<b>V-2170B15</b> 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.
4	Intake, Bulk	80-79	<b>V-2170B15</b> 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.

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# Ford Car

## 13 2.3L 140 (2302cc) SOHC Turbo L4 (8 Valve), 96mm Bore 1989-79

(cont.) VIN Codes "D" 1983, "T" 1980-88, "W" 1979-89

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	88-83	VG-5045	.3440" ID, 2.1800" O.A.L.
8	Guide	88-83	VG-1372	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.
8	Guide	80-79	VG-5045	.3440" ID, 2.1800" O.A.L.
8	Guide	80-79	VG-1372	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	88-83	VS-1459	Incl. damper; 1.9800" Free Height
8	Spring	80-79	VS-1459	Incl. damper; 1.9800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	88-83	ST-2092	Exh.; O.E. design; Positive type; Rubber
8	Valve Stem Seal	84-83	ST-2003	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
8	Valve Stem Seal	80-79	ST-2003	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
8	Valve Stem Seal Bulk	84-83	ST-2003BC	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
8	Valve Stem Seal Bulk	80-79	ST-2003BC	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	88-83	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	88-83	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	88-83	245-1812-2 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
4	Exh.	80-79	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	80-79	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	80-79	245-1812-2 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-83	VK-205	4 groove
16	Keeper	88-83	VK-205R	4 groove; Hardened
16	Keeper	80-79	VK-205	4 groove
16	Keeper	80-79	VK-205R	4 groove; Hardened
8	Spring Insert	88-83	259-102C	.015"; Carton of 100
8	Spring Insert	88-83	259-102B	.030"; Carton of 100
8	Spring Insert	88-83	259-102A	.060"; Carton of 100
8	Spring Insert	88-83	259-102ARS	.060"; Carton of 500
8	Spring Insert	80-79	259-102C	.015"; Carton of 100
8	Spring Insert	80-79	259-102B	.030"; Carton of 100
8	Spring Insert	80-79	259-102A	.060"; Carton of 100
8	Spring Insert	80-79	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	89-83	H559P Std-20-30-40	Use w/E-441K ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Recessed Head w/offset "D" shape .095" deep
4	Cast Piston - Individual	89-83	WH559P Std-20-30-40	Use w/WE-441K ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Recessed Head w/offset "D" shape .095" deep
4	Powerforged	89-84	L-2500F.50MM .50-.75MM	VIN Codes "T" & "W"; Use w/E-441K ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Recessed Head .095" deep. <b>DurOshield® skirt coated piston.</b>
4	Powerforged	83	L-2500F.50MM .50-.75MM	VIN Code "D"; ; Use w/E-441K ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Recessed Head .095" deep. <b>DurOshield® skirt coated piston.</b>
4	Powerforged	80-79	L-2455F.75MM .75-1.00MM	Use w/E-441K ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
4	Forged Piston - Individual	80-79	WL-2455F.75MM 1.00-.75MM	Use w/WE-441K ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-87	E-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM
1	Premium Set	86-83	E-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM
1	Premium Set	80-79	E-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set	89-87	WE-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set	86-83	WE-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set	80-79	WE-441K Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM

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# Ford Car

**2.3L 140 (2302cc) SOHC Turbo L4 (8 Valve), 96mm Bore 1989-79 13**

VIN Codes "D" 1983, "T" 1980-88, "W" 1979-89 (cont.)

	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
BLOCK	1	Main Set	88-83	<b>4979M</b> Std-.25-.50-.75-1.00MM		
	1	Rod Set	88-83	<b>4-3545A</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
	4	Rod Pair	88-83	<b>3545A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
	1	Cam Set	88-83	<b>1443M</b> Std Only		
	1	Cam Set	88-83	<b>1842M</b> Std Only	Spec. oil control brg., differs from O.E. design, 360 Degree OD groove	
	1	Aux. Shaft Set	88-83	<b>1460M</b>		
		<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	89-83	<b>224-43405</b>		
	1	Oil Pump	89-83	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan	
	1	Oil Pump	80-79	<b>224-43405</b>		
1	Oil Pump	80-79	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan		
1	Inter. Shaft	89-83	<b>224-61160</b>			
1	Inter. Shaft	80-79	<b>224-61160</b>			
1	Screen Assy.	88-87	<b>224-12160</b>	Thunderbird & XR4Ti		
1	Screen Assy.	85	<b>224-13160</b>	From 4/9/85		
1	Screen Assy.	85	<b>224-12160</b>	To 4/8/85		
1	Screen Assy.	84-83	<b>224-12160</b>			
1	Screen Assy.	80-79	<b>224-12160</b>			
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	89	<b>260-1434</b>	PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	88-87	<b>260-1206</b>	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	86	<b>260-1206</b>	From 7/16/86; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	86	<b>260-1162</b>	To 7/15/86; Premium valve stem seals incl.		
1	Kit Gasket Set	85	<b>260-1162</b>	Premium valve stem seals incl.		
1	Kit Gasket Set	84-79	<b>260-1162</b>	Premium valve stem seals incl.		
1	Head Bolt Set	89-79	<b>260-2510</b>	Replacement recommended		
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	88-79	<b>381-8029</b>			
1	Steel Block Plug Kit	88-83	<b>381-4022</b>			
KITS	<b>RE-RING KIT</b>					
		<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	88-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-879</b> <b>205-879M</b>	-----	-----
	86	To 7/15/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-754</b> <b>205-754M</b>	-----	-----
	86	From 7/16/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-879</b> <b>205-879M</b>	-----	-----
	86	To 7/15/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-880</b> <b>205-880M</b>	-----	-----
	85	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-754</b> <b>205-754M</b>	-----	-----
	85-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-880</b> <b>205-880M</b>	-----	-----
	84-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-754</b> <b>205-754M</b>	-----	-----
	<b>OVERHAUL KIT</b>					
		<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	88-87	VIN Code "W"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-879A</b> <b>MK-879A</b>	-----	-----
	88-87	VIN Code "W"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-879A</b>	-----	-----
	86	To 7/15/86; VIN Code "T"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Pistons	<b>MK-754A</b>	-----	-----

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# Ford Car

## 13 2.3L 140 (2302cc) SOHC Turbo L4 (8 Valve), 96mm Bore 1989-79

(cont.) VIN Codes "D" 1983, "T" 1980-88, "W" 1979-89

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
86	From 7/16/86; VIN Code "W"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-879A</b> <b>MK-879A</b>	----- -----
86	From 7/16/86; VIN Code "W"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-879A</b>	-----
86	From 7/16/86; VIN Code "T"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-879C</b> <b>MK-879C</b>	----- -----
86	From 7/16/86; VIN Code "T"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-879C</b>	-----
86	To 7/15/86; VIN Code "W"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-880A</b> <b>MK-880A</b>	----- -----
86	To 7/15/86; VIN Code "W"; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-880A</b>	-----
85	From 2/4/85; VIN Code "T"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Pistons	<b>MK-754A</b>	-----
85	To 2/3/85; VIN Code "T"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-880A</b> <b>MK-880A</b>	----- -----
85	To 2/3/85; VIN Code "T"; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-880A</b>	-----
85	VIN Code "W"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master Master w/o Pistons	<b>MKP-880A</b> <b>MK-880A</b>	----- -----
85	VIN Code "W"; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-880A</b>	-----
84-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Pistons	<b>MK-880A</b>	-----
84-83	VIN Codes "D", "T" & "W"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master	<b>MKP-880A</b>	-----
84-83	VIN Codes "D", "T" & "W"; Premium valve stem seals incl.; Incl. High Volume oil pump; Not for use w/Alum. oil pan	Master w/o Rods & Mains	<b>505-880A</b>	-----

## 14 2.3L 140 OHV L4 (HSC), 3.679" Bore 1990-84

VIN Codes "R" 1984-87, "S" 1985-91 (H.O.), "X" 1985-94

QTY	TIMING		PART NO.	DESCRIPTION
	YEARS			
1	3 Piece Set	90-84	<b>KT3-505S</b>	Incl. (1) 222-505, (1) 223-617, (1) 223-618
1	Timing Chain	90-84	<b>222-505</b>	46 Links
1	Timing Chain Tensioner	90-84	<b>222-127CT</b>	
1	Crank Sprocket	90-84	<b>223-617</b>	18 Teeth
1	Cam Sprocket	90-84	<b>223-618</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	<b>CS-788</b>	VIN Code "X"
1	Camshaft	85	<b>CS-788</b>	VIN Codes "R" & "X"
1	Camshaft	84	<b>CS-788</b>	
8	Lifter	90-84	<b>HT-900</b> Std Only	Hyd.
8	Lifter, Bulk	90-84	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
1	Prelube	90-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-86	<b>KC-788</b>	VIN Code "X"; Hyd.; Incl. (1) CS-788, (8) HT-900, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-788</b>	VIN Codes "R" & "X"; Hyd.; Incl. (1) CS-788, (8) HT-900, (1) 55-403B

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# Ford Car

2.3L 140 OHV L4 (HSC), 3.679" Bore 1990-84 **14**

VIN Codes "R" 1984-87, "S" 1985-91 (H.O.), "X" 1985-94 (cont.)

QTY	PART NO.	YEARS	DESCRIPTION
<b>VALVE TRAIN</b>	<b>CAM KIT (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>
	1 Cam/Lifter Kit	84	<b>KC-788</b>
	1 Cam/Lifter/Timing Kit	90-86	<b>KCT-788</b>
	1 Cam/Lifter/Timing Kit	85	<b>KCT-788</b>
1 Cam/Lifter/Timing Kit	84	<b>KCT-788</b>	Hyd.; Incl. (1) CS-788, (8) HT-900, (1) 55-403B VIN Code "X"; Hyd.; Incl. (1) CS-788, (8) HT-900, (1) KT3-505S, (1) 55-403B VIN Codes "R" & "X"; Hyd.; Incl. (1) CS-788, (8) HT-900, (1) KT3-505S, (1) 55-403B Hyd.; Incl. (1) CS-788, (8) HT-900, (1) KT3-505S, (1) 55-403B
<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8 Push Rod	90-84	<b>RP-3245</b>	8.8780" O.A.L.
<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8 Arm Assy.	90-84	<b>R-948</b>	Incl. arm & pivot
8 Arm Assy., Bulk	90-84	<b>R-948B</b>	Incl. arm & pivot; Carton of 32
8 Bolt	90-84	<b>MR-1916</b>	
8 Pivot	90-84	<b>MR-1811</b>	
<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4 Exhaust	90-84	<b>V-3943</b> Std-15	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.7920" O.A.L.
4 Exhaust, Bulk	90-84	<b>V-3943B15</b> 15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3564" Stem Dia., 4.7920" O.A.L.
4 Intake	90-88	<b>V-2456</b> Std-15	Chrome plated stem; 1.7323" Head Dia., .3415" Stem Dia., 4.7854" O.A.L.
4 Intake	87-84	<b>V-2170</b> Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4 Intake, Bulk	90-88	<b>V-2456B15</b> 15	Chrome plated stem; Carton of 25; 1.7323" Head Dia., .3565" Stem Dia., 4.7854" O.A.L.
4 Intake, Bulk	87-84	<b>V-2170B15</b> 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.
<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8 Guide	90-84	<b>VG-1372</b>	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.
<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8 Spring	90-84	<b>VS-1460</b>	1.8300" Free Height
<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4 Valve Stem Seal	90-84	<b>ST-2003</b>	Exh.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
4 Valve Stem Seal	90-84	<b>ST-2092</b>	Exh. & Int.; O.E. design; Positive type; Rubber
4 Valve Stem Seal Bulk	90-84	<b>ST-2003BC</b>	Exh.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4 Exh.	90-84	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4 Exh.	90-84	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4 Int.	90-84	<b>245-1812-2</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16 Keeper	90-84	<b>VK-205</b>	4 groove
16 Keeper	90-84	<b>VK-205R</b>	4 groove; Hardened
<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4 Cast Piston	90-84	<b>489P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9122" Pin Dia., Flat Head - 9.0:1 C.R.
4 Cast Piston - Individual	90-84	<b>W489P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9122" Pin Dia., Flat Head - 9.0:1 C.R.
<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1 Premium Set	90-84	<b>E-465K</b> Std-20-30-40-60	2-5/64, 1-3/16
1 Standard Set	90-84	<b>E-465X</b> Std-20-30-40	2-5/64, 1-3/16
4 Premium Single Cylinder Set	90-84	<b>WE-465K</b> Std-20-30-40	2-5/64, 1-3/16
<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1 Main Set	90-84	<b>5130M</b> Std-10-20-30	
1 Rod Set	90-86	<b>4-1035CP</b> Std-10-20-30	
1 Rod Set	85-84	<b>4-2380CP</b> Std Only	
4 Rod Pair	90-86	<b>1035CP</b> Std-10-20-30	
4 Rod Pair	85-84	<b>2380CP</b> Std-1-10-20-30-40	
1 Cam Set	90-84	<b>1494M</b> Std Only	
<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1 Oil Pump	90-84	<b>224-41100</b>	
1 Inter. Shaft	90-84	<b>224-61120</b>	
1 Screen Assy.	87-84	<b>224-11100</b>	
<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1 Kit Gasket Set	90-89	<b>260-1437</b>	Premium valve stem seals incl.

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**14 2.3L 140 OHV L4 (HSC), 3.679" Bore 1990-84**  
 (cont.) VIN Codes "R" 1984-87, "S" 1985-91 (H.O.), "X" 1985-94

QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	88	260-1436	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87-85	260-1208	w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-84	381-8063	
RE-RING KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6107 205-6107M	205-1107 205-1107M
88	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6106 205-6106M	205-1106 205-1106M
87-86	w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-883 205-883M	205-383 205-383M
85	w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-882 205-882M	205-382 205-382M
OVERHAUL KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	VIN Code "X"; Premium valve stem seals incl.; Freeze plugs not incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6107A MK-6107A 505-6107A	MKP-1107A MK-1107A 505-1107A
90-89	Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block	BKP-6115 BK-6115	----
90-89	VIN Code "X"; Premium valve stem seals incl.	Master	MKP-6367	----
90-89	VIN Code "X"; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	---- MK-7032 505-7032	MKP-2032 MK-2032 505-2032
88	VIN Code "X"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6106A MK-6106A 505-6106A	MKP-1106A MK-1106A 505-1106A
87-86	VIN Code "X"; w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Freeze plugs not incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-883A MK-883A 505-883A	MKP-383A MK-383A 505-383A
87-86	VIN Code "X"; w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-884A	MK-384A
85	VIN Codes "R" & "X"; w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-882A MK-882A	MKP-382A MK-382A
85	VIN Codes "R" & "X"; w/Alum. valve cover; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Freeze plugs not incl.	Master w/o Rods & Mains	505-883A	505-383A

**15 2.4L 144 OHV L6, 3.5" Bore 1964-60**  
 VIN Codes "D" 1960-62, "S" 1960-64

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	64-60	KT3-351S	Incl. (1) 222-351, (1) 223-308, (1) 223-397
1	Timing Chain	64-60	222-351	50 Links
1	Crank Sprocket	64-60	223-397	19 Teeth
1	Cam Sprocket	64-60	223-308	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	64-63	CS-448	Hyd.
1	Camshaft	63	CS-261	w/o Zero lash rocker arms; 14 teeth on dist. drive gear
1	Camshaft	62-60	CS-261	14 teeth on dist. drive gear
12	Lifter	64-63	HT-2083 Std Only	Hyd.
12	Lifter	62-60	AT-872 Std Only	Mech.
12	Lifter, Bulk	64-63	HT-2083B Std Only	Hyd.; Carton of 122
12	Lifter, Bulk	62-60	AT-872B Std Only	Mech.; Carton of 122
1	Prelube	64-60	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	64-63	KC-448	Hyd.; Incl. (1) CS-448, (12) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	62-60	KC-261	Mech.; 14 teeth on dist. drive gear; Incl. (12) AT-872, (1) CS-261, (1) 55-403B

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# Ford Car

**2.4L 144 OHV L6, 3.5" Bore 1964-60 15**  
 VIN Codes "D" 1960-62, "S" 1960-64 (cont.)

QTY		PUSH ROD	YEARS	PART NO.	DESCRIPTION
12		Push Rod	64-60	RP-3076	Std. length; 8.2300" O.A.L.
QTY		<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12		Arm	64-60	R-810	Adj.
1		Rocker Shaft	64-60	RS-619	
QTY		<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6		Exhaust	64-60	V-1439 Std Only	1.2660" Head Dia., .3100" Stem Dia., 4.2600" O.A.L.
QTY		<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12		Guide	64-60	VG-5009	.3120" ID, 1.8800" O.A.L.
QTY		<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12		Spring	64-63	VS-624	w/o Rotocaps; 1.8280" Free Height
12		Spring	62-60	VS-562	w/o Rotocaps; 2.0000" Free Height
QTY		<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12		Valve Stem Seal	64-60	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
12		Valve Stem Seal	64-60	MV-1796A	Umbrella type; Fits Std. to .015" O/S valve stem
12		Valve Stem Seal Bulk	64-60	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12		Valve Stem Seal Bulk	64-60	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY		<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6		Exh.	64-60	245-1375-4 Std Only	1.3795" OD, 1.1250" ID, .1855" Depth
6		Int.	64-60	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6		Int.	64-60	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
QTY		<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24		Keeper	64-60	VK-144	1 groove; Square cut key groove
24		Keeper	64-60	VK-144R	1 groove; Square cut key groove; Hardened
24		Keeper, Bulk	64-60	VK-144B	1 groove; Square cut key groove; Carton of 1000
12		Spring Insert	64-60	259-102C	.015"; Carton of 100
12		Spring Insert	64-60	259-102B	.030"; Carton of 100
12		Spring Insert	64-60	259-102A	.060"; Carton of 100
12		Spring Insert	64-60	259-102ARS	.060"; Carton of 500
QTY		<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Premium Set	64-60	E-197K Std-20-30-40-60	2-5/64, 1-3/16
1		Standard Set	64-60	E-197X Std-20-30-40-60	2-5/64, 1-3/16
6		Premium Single Cylinder Set	64-60	WE-197K Std-20-30-40	2-5/64, 1-3/16
6		Standard Single Cylinder Set	64-60	WE-197X Std-20-30-40-60	2-5/64, 1-3/16
QTY		<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Main Set	64-60	4222M Std-10-20	
1		Rod Set	64-60	6-2380CP Std-1-10-20-30-40	
6		Rod Pair	64-60	2380CP Std-1-10-20-30-40	
1		Cam Set	64-60	1439M Std Only	
QTY		<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Kit Gasket Set	64-60	260-1002	Premium valve stem seals incl.
QTY		<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Brass Block Plug Kit	64-60	381-8013	
		<b>RE-RING KIT</b>			
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b> <b>ECONOMY KIT NO.</b>
	64-60	Premium valve stem seals incl.		Re-ring	205-605    205-105
<b>2.4L 149 (2443cc) SOHC Turbo-Diesel L6 (12 Valve), 80mm Bore (BMW Eng.) 1984 16</b>					
VIN Code "L" 1984-85, Eng. Code "M21D24" 1984-85					
QTY		<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Brass Block Plug Kit	84	381-8013	
<b>2.5L 153 OHV L4 (HSC), 3.679" Bore 1990-86 17</b>					
VIN Codes "D" 1986-90, "N" 1991					
QTY		<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		3 Piece Set	90-86	KT3-505S	Incl. (1) 222-505, (1) 223-617, (1) 223-618
1		Timing Chain	90-86	222-505	46 Links
1		Timing Chain Tensioner	90-86	222-127CT	
1		Crank Sprocket	90-86	223-617	18 Teeth
1		Cam Sprocket	90-86	223-618	36 Teeth
QTY		<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		Camshaft	90-86	CS-788	
8		Lifter	90-86	HT-900 Std Only	Hyd.
8		Lifter, Bulk	90-86	HT-900B Std Only	Hyd.; Carton of 122

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## 17 2.5L 153 OHV L4 (HSC), 3.679" Bore 1990-86

(cont.) VIN Codes "D" 1986-90, "N" 1991

VALVE TRAIN		BLOCK		KITS	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	(cont.) Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Cam/Lifter Kit	90-86	KC-788	Hyd.; Incl. (1) CS-788, (8) HT-900, (1) 55-403B	
1	Cam/Lifter/Timing Kit	90-86	KCT-788	Hyd.; Incl. (1) CS-788, (8) HT-900, (1) KT3-505S, (1) 55-403B	
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Push Rod	90-86	RP-3280	9.6500" O.A.L.	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Arm Assy.	90-86	R-948	Incl. arm & pivot	
8	Arm Assy., Bulk	90-86	R-948B	Incl. arm & pivot; Carton of 32	
8	Pivot	90-86	MR-1811		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	90-86	V-3943 Std-15	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.7920" O.A.L.	
4	Exhaust, Bulk	90-86	V-3943B15 15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3564" Stem Dia., 4.7920" O.A.L.	
4	Intake	90-86	V-2170 Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.	
4	Intake, Bulk	90-86	V-2170B15 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	90-86	VG-1372	Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	90-86	VS-1460	1.8300" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Valve Stem Seal	90-86	ST-2003	Exh.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber	
4	Valve Stem Seal	90-86	ST-2092	Exh. & Int.; O.E. design; Positive type; Rubber	
4	Valve Stem Seal Bulk	90-86	ST-2003BC	Exh.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90-86	245-1562-36 Std Only	1.5670" OD, 1.3125" ID, .1860" Depth	
4	Int.	90-86	245-1812-2 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	90-86	VK-205	4 groove	
16	Keeper	90-86	VK-205R	4 groove; Hardened	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	90-86	E-465K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	90-86	E-465X Std-20-30-40	2-5/64, 1-3/16	
4	Premium Single Cylinder Set	90-86	WE-465K Std-20-30-40	2-5/64, 1-3/16	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90-86	5130M Std-10-20-30		
1	Rod Set	90-86	4-1035CP Std-10-20-30		
4	Rod Pair	90-86	1035CP Std-10-20-30		
1	Cam Set	90-86	1494M Std Only		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	90-86	224-41100		
1	Inter. Shaft	90-86	224-61120		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	88-86	260-1438	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	90-86	381-8063		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				
88	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6108	205-1108
		Re-ring w/Mains		205-6108M	205-1108M
87-86	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6108	205-1108
		Re-ring w/Mains		205-6108M	205-1108M
<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				
88	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-6108A	MK-1108A

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# Ford Car

**2.5L 153 OHV L4 (HSC), 3.679" Bore 1990-86 17**

VIN Codes "D" 1986-90, "N" 1991 (cont.)

**OVERHAUL KIT (cont.)**

**YEARS DESCRIPTION**  
87-86 PermaDry® molded rubber valve cover & oil pan gskts. Master w/o Pistons  
incl.; Premium valve stem seals incl.

**PREMIUM KIT NO. ECONOMY KIT NO.**  
**MK-6108A MK-1108A**

**2.6L 155.6 (2551cc) OHV V6 (12 Valve), 90mm Bore 1973-72 18**

VIN Code "U" 1972-73

VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Lifter	73-72	AT-872 Std Only	Mech.	
	12	Lifter, Bulk	73-72	AT-872B Std Only	Mech.; Carton of 122	
	12	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	12	Push Rod	72	RP-3233	5.4290" O.A.L.	
	12	Push Rod, Bulk	72	BRP-3233	Carton of 100; 5.4290" O.A.L.	
	6	VALVE	YEARS	PART NO.	DESCRIPTION	
	6	Exhaust	73-72	V-1992 Std Only	Chrome plated stem; 1.2690" Head Dia., .3154" Stem Dia., 4.1620" O.A.L.	
	6	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	6	Exh.	73-72	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth	
	6	Int.	73-72	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth	
	6	Int.	73-72	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth	
	12	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	12	Keeper	73-72	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.	
	12	Keeper	73-72	VK-144	Int.; 1 groove; Square cut key groove	
	12	Keeper	73-72	VK-144R	Int.; 1 groove; Square cut key groove; Hardened	
	12	Keeper, Bulk	73-72	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000	
	12	Spring Insert	73-72	259-102C	.015"; Carton of 100	
	12	Spring Insert	73-72	259-102B	.030"; Carton of 100	
	12	Spring Insert	73-72	259-102A	.060"; Carton of 100	
	12	Spring Insert	73-72	259-102ARS	.060"; Carton of 500	
	1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	73-72	6101MA Std-10-20-30	A-Series aluminum bearings; Flanged brg.	
	1	Rod Set	73-72	6-3055CP Std-10-20-30		
	1	Rod Set	73-72	6-3055CP10X2 10X2-20X2	Use in .002" O/S Rod Bore	
	6	Rod Pair	73-72	3055CP Std-10-20-30		
	1	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	73-72	224-41163		
	1	Oil Pump	73-72	224-41163V	High Volume, check pan for clearance	
	1	Inter. Shaft	73-72	224-61163		

**2.8L 170 OHV L6, 3.5" Bore 1972-60 19**

VIN Code "U" 1960-72

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	72-61	KT3-351S	Incl. (1) 222-351, (1) 223-308, (1) 223-397	
	1	Timing Chain	72-61	222-351	50 Links	
	1	Crank Sprocket	72-61	223-397	19 Teeth	
	1	Cam Sprocket	72-61	223-308	38 Teeth	
	1	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	72-63	CS-448	Hyd.	
	1	Camshaft	62-61	CS-261	14 teeth on dist. drive gear	
	12	Lifter	72-63	HT-2083 Std Only	Hyd.	
	12	Lifter	62-61	AT-872 Std Only	Mech.	
	12	Lifter, Bulk	72-63	HT-2083B Std Only	Hyd.; Carton of 122	
	12	Lifter, Bulk	62-61	AT-872B Std Only	Mech.; Carton of 122	
	1	Prelube	72-61	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	1	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	72-63	KC-448	Hyd.; Incl. (1) CS-448, (12) HT-2083, (1) 55-403B	
	1	Cam/Lifter Kit	62-61	KC-261	Mech.; 14 teeth on dist. drive gear; Incl. (12) AT-872, (1) CS-261, (1) 55-403B	
	12	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	12	Push Rod	72-65	RP-3176A	+1/16" longer length; 8.4100" O.A.L.	
	12	Push Rod	72-65	RP-3176B	-1/16" shorter length; 8.2900" O.A.L.	
	12	Push Rod	72-65	RP-3176	Std. length; 8.3500" O.A.L.	
	12	Push Rod	64-61	RP-3076	Std. length; 8.2300" O.A.L.	
	12	Push Rod, Bulk	72-65	BRP-3176	Std. length; Carton of 100; 8.3500" O.A.L.	
	12	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	12	Arm	72-61	R-810	Adj.	
	1	Rocker Shaft	72-61	RS-619		

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# Ford Car

## 19 2.8L 170 OHV L6, 3.5" Bore 1972-60

(cont.) VIN Code "U" 1960-72

QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	72-65	V-1983 Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.	
6	Exhaust	64-61	V-1439 Std Only	1.2660" Head Dia., .3100" Stem Dia., 4.2600" O.A.L.	
6	Intake	72-65	V-1717 Std Only	w/o Chrome plated stem; 1.6555" Head Dia., .3102" Stem Dia., 4.2638" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
24	Guide	72-61	VG-5009	.3120" ID, 1.8800" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring	72-63	VS-624	1.8280" Free Height	
12	Spring	62-61	VS-562	2.0000" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
12	Valve Stem Seal	72-61	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	72-61	MV-1796A	Umbrella type; Fits Std. to .015" O/S valve stem	
12	Valve Stem Seal Bulk	72-61	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
12	Valve Stem Seal Bulk	72-61	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	72-65	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth	
6	Exh.	72-65	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth	
6	Int.	72-65	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	
6	Int.	72-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
6	Exh.	64-61	245-1375-4 Std Only	1.3795" OD, 1.1250" ID, .1855" Depth	
6	Int.	64-61	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth	
6	Int.	64-61	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	72-61	VK-144	1 groove; Square cut key groove	
24	Keeper	72-61	VK-144R	1 groove; Square cut key groove; Hardened	
24	Keeper, Bulk	72-61	VK-144B	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	72-61	259-102C	.015"; Carton of 100	
12	Spring Insert	72-61	259-102B	.030"; Carton of 100	
12	Spring Insert	72-61	259-102A	.060"; Carton of 100	
12	Spring Insert	72-61	259-102ARS	.060"; Carton of 500	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	72-63	302NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9122" Pin Dia., Flat Head - 8.5:1 C.R.	
6	Cast Piston - Individual	72-63	W302NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9122" Pin Dia., Flat Head - 8.5:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	72-61	E-197K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	72-61	E-197X Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	72-61	WE-197K Std-20-30-40	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	72-61	WE-197X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	72-63	4222M Std-10-20		
1	Rod Set	72-63	6-2380CP Std-1-10-20-30-40		
6	Rod Pair	72-63	2380CP Std-1-10-20-30-40		
1	Cam Set	72-63	1439M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	72-65	224-41146		
1	Inter. Shaft	72-65	224-61120		
1	Screen Assy.	72-65	224-11146		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	72-60	260-1002	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	72-61	381-8013		
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION		205-605	205-105
72-63	Premium valve stem seals incl.	Re-ring			
KITS	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION		MKP-605G	MKP-105G
72-65	Premium valve stem seals incl.	Master			
		Master w/o Pistons		MK-605G	MK-105G



# Ford Car

2.8L 171 (2792cc) OHV V6 (12 Valve), 93mm Bore 1979-74 **20**

VIN Code "Z" 1974-79

QTY		TIMING	YEARS	PART NO.	DESCRIPTION
1		Gear Set	79-74	221-2760SA	
QTY		CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12		Lifter	79-74	AT-872 Std Only	Mech.
12		Lifter, Bulk	79-74	AT-872B Std Only	Mech.; Carton of 122
QTY		PUSH ROD	YEARS	PART NO.	DESCRIPTION
12		Push Rod	79-74	RP-3233	5.4290" O.A.L.
12		Push Rod, Bulk	79-74	BRP-3233	Carton of 100; 5.4290" O.A.L.
QTY		VALVE	YEARS	PART NO.	DESCRIPTION
6		Exhaust	79-74	V-1992 Std Only	Chrome plated stem; 1.2690" Head Dia., .3154" Stem Dia., 4.1620" O.A.L.
QTY		VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12		Guide	79-74	VG-5016	.3175" ID, 2.0000" O.A.L.
12		Guide	79-74	VG-5016T	Threaded; .3175" ID, 2.0000" O.A.L.
QTY		VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12		Valve Stem Seal	79-74	MV-1828C	Positive type; Polyacrylate
12		Valve Stem Seal Bulk	79-74	MV-1828	Positive type; Carton of 50; Polyacrylate
QTY		VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6		Exh.	79-74	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth
6		Int.	79-74	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6		Int.	79-74	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY		VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12		Keeper	79-74	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.
12		Keeper	79-74	VK-144	Int.; 1 groove; Square cut key groove
12		Keeper	79-74	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
12		Keeper, Bulk	79-74	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
12		Spring Insert	79-74	259-102C	.015"; Carton of 100
12		Spring Insert	79-74	259-102B	.030"; Carton of 100
12		Spring Insert	79-74	259-102A	.060"; Carton of 100
12		Spring Insert	79-74	259-102ARS	.060"; Carton of 500
QTY		PISTON	YEARS	PART NO.	DESCRIPTION
6		Cast Piston	79-74	433NP Std-20-30-40-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.511" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.
6		Cast Piston - Individual	79-74	W433NP Std-20-30-40-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.511" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.
QTY		RINGS	YEARS	PART NO.	DESCRIPTION
1		Premium Set	79-74	E-351KC Std-.50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM
1		Standard Set	79-74	E-351X Std-.50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM
6		Premium Single Cylinder Set	79-74	WE-351KC Std-.50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM
6		Standard Single Cylinder Set	79-74	WE-351X Std-.50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM
QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1		Main Set	74	7269MA10 10-20-30	<b>A-Series aluminum bearings;</b> .020" O/S length flange brg.
1		Main Set	74	6101MA Std-10-20-30	To 4/74; w/flanged brg.; <b>A-Series aluminum bearings;</b> Flanged brg.
1		Rod Set	79-74	6-3055CP Std-10-20-30	
1		Rod Set	79-74	6-3055CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
6		Rod Pair	79-74	3055CP Std-10-20-30	
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION
1		Oil Pump	79-74	224-41163	
1		Oil Pump	79-74	224-41163V	High Volume, check pan for clearance
1		Inter. Shaft	79-74	224-61163	
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION
1		Kit Gasket Set	79-75	260-1127	Premium valve stem seals incl.
1		Kit Gasket Set	74	260-1127	Int. manifold gskt. not incl.; Premium valve stem seals incl.
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1		Brass Block Plug Kit	79-74	381-8030	
		<b>RE-RING KIT</b>			
	YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	79-75	Premium valve stem seals incl.	Re-ring	205-652	205-152
	74	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	205-652	205-152

# Ford Car

**21 2.9L 177 (2935cc) OHV V6 (12 Valve), 93mm Bore 1990-88**  
VIN Code "V" 1988-90

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	89-88	KT3-60S	Incl. (1) 222-3SR60X, (1) 223-650, (1) 223-651
1	Timing Chain	89-88	222-3SR60X	60 Links
1	Timing Chain Tensioner	89-88	222-157CT	
1	Timing Chain Guide	89-88	222-187GP	
1	Crank Sprocket	89-88	223-651	19 Teeth
1	Cam Sprocket	89-88	223-650	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	89-88	HT-2083 Std Only	Hyd.
12	Lifter, Bulk	89-88	HT-2083B Std Only	Hyd.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	89-88	RP-3233	5.4290" O.A.L.
12	Push Rod, Bulk	89-88	BRP-3233	Carton of 100; 5.4290" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	89-88	R-1093	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	89-88	V-2553 Std-15	Chrome plated stem; 1.4170" Head Dia., .3153" Stem Dia., 4.1350" O.A.L.
6	Exhaust, Bulk	89-88	V-2553B Std-15	Chrome plated stem; Carton of 25; 1.4170" Head Dia., .3153" Stem Dia., 4.1350" O.A.L.
6	Intake	89-88	V-2554 Std-15	Chrome plated stem; 1.6530" Head Dia., .3160" Stem Dia., 4.1340" O.A.L.
6	Intake, Bulk	89-88	V-2554B Std-15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3160" Stem Dia., 4.1340" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	89-88	VG-5016	Exh. & Int.; .3175" ID, 2.0000" O.A.L.
12	Guide	89-88	VG-5016T	Exh. & Int.; Threaded; .3175" ID, 2.0000" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	89-88	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	89-88	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	89-88	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.
12	Keeper	89-88	VK-144	Int.; 1 groove; Square cut key groove
12	Keeper	89-88	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	89-88	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	89-88	520P Std-.50-.75-1.00-1.50MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
6	Cast Piston - Individual	89-88	W520P Std-.50-.75-1.00-1.50MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	89-88	6K520P.75MM .75-1.00MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-88	E-481K Std-.50-.75-1.00-1.50MM	1-1.60MM, 1-1.75MM, 1-3.50MM
1	Standard Set	89-88	E-481X Std-.50-.75-1.00-1.50MM	1-1.60MM, 1-1.75MM, 1-3.50MM
6	Premium Single Cylinder Set	89-88	WE-481K Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
6	Standard Single Cylinder Set	89-88	WE-481X Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7269MA10 10-20-30	A-Series aluminum bearings; .020" O/S length flange brg.
1	Main Set	90-88	6101MA Std-10-20-30	A-Series aluminum bearings; Flanged brg.
1	Rod Set	90-88	6-3055CP Std-10-20-30	
1	Rod Set	90-88	6-3055CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
6	Rod Pair	90-88	3055CP Std-10-20-30	
1	Cam Set	90-88	1838M Std Only	Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	89-88	224-43431	
1	Inter. Shaft	89-88	224-14274	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	89-88	260-1220	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Head Bolt Set	89-88	260-2509	Replacement recommended

(continued on next page)

# Ford Car

**3.0L 177 (2935cc) OHV V6 (12 Valve), 93mm Bore 1990-88 21**

VIN Code "V" 1988-90 (cont.)

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-88	381-8064	

<b>K I T S</b>	<b>RE-RING KIT</b>							<b>K I T S</b>
	YEARS	DESCRIPTION	RE-RING	PREMIUM KIT NO.	ECONOMY KIT NO.			
	89-88	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-898	205-398			
89-88	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.	Re-ring w/Mains	205-898M	205-398M				

**3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86 22**

VIN Codes "U" 1986-2007, "1" 1993-98 (Flex Fuel), "2" 1996-2007 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-86	KT3-374S	Incl. (1) 222-374, (1) 223-636, (1) 223-649
1	Timing Chain	90-86	222-374	62 Links
1	Crank Sprocket	90-86	223-649	19 Teeth
1	Cam Sprocket	90-86	223-636	38 Teeth

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	CS-787	
12	Lifter	90-86	HT-900 Std Only	Hyd.
12	Lifter, Bulk	90-86	HT-900B Std Only	Hyd.; Carton of 122
1	Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-86	KC-787	Hyd.; Incl. (1) CS-787, (12) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-86	KCT-787	Hyd.; Incl. (1) CS-787, (12) HT-900, (1) KT3-374S, (1) 55-403B

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-86	RP-3281	5.9600" O.A.L.
12	Push Rod, Bulk	90-86	BRP-3281	Carton of 100; 5.9600" O.A.L.

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-86	R-1007	Incl. arm & pivot
12	Pivot	90-86	MR-1881	

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-86	V-3957 Std-15	Chrome plated stem; 1.3710" Head Dia., .3125" Stem Dia., 4.6150" O.A.L.
6	Exhaust, Bulk	90-86	V-3957B15 15	Chrome plated stem; Carton of 25; 1.3710" Head Dia., .3275" Stem Dia., 4.6150" O.A.L.
6	Intake	90-86	V-2448 Std-15	Chrome plated stem; 1.6610" Head Dia., .3130" Stem Dia., 4.6150" O.A.L.
6	Intake, Bulk	90-86	V-2448B15 15	Chrome plated stem; Carton of 25; 1.6610" Head Dia., .3280" Stem Dia., 4.6150" O.A.L.

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90-86	VG-5085T	.3150" ID, 2.2000" O.A.L.

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-86	VS-1462	1.8400" Free Height

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90-86	ST-2103	Exh.; Positive type; Rubber
6	Valve Stem Seal	90-86	ST-2102	Int.; Positive type; Rubber

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-86	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
6	Exh.	90-86	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
6	Int.	90-86	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-86	VK-204	3 groove; w/.3125 Stem Dia.

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-86	H497P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.
6	Cast Piston - Individual	90-86	WH497P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-86	6KH497P.50MM .50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-86	E-446K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-86	E-446KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-86	E-446X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-86	WE-446K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	90-86	WE-446X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM

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# Ford Car

**22 3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86**  
 (cont.) VIN Codes "U" 1986-2007, "1" 1993-98 (Flex Fuel), "2" 1996-2007 (Flex Fuel)

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	90-86	7011MA Std-.25-.50MM	A-Series aluminum bearings		
	1	Rod Set	90-86	6-1220RA Std-.25-.50MM	A-Series aluminum bearings		
	1	Rod Pair	90-86	1220RA Std-.25-.50MM	A-Series aluminum bearings		
	1	Cam Set	90-86	1843M Std Only	Full round design		
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	90-86	224-41101			
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	90	260-1210	To 3/26/90; Exc. Probe; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	89-86	260-1210	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Head Bolt Set	90-86	260-2515	Replacement recommended			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	90-86	381-8072				
KITS	RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION					
	90	To 3/26/90; Exc. Probe; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6110 205-6110M	205-1110 205-1110M	
	89-86	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6110 205-6110M	205-1110 205-1110M	
	OVERHAUL KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION					
	90	To 3/26/90; Exc. Probe; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		MKP-6110A MK-6110A	MKP-1110A MK-1110A	
	90	To 3/26/90; Exc. Probe; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		505-6110A	----	
	90	To 3/26/90; Exc. Probe; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		----	505-1110B	
	90	To 3/26/90; Exc. Probe; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6125	----	
	90	To 3/26/90; Exc. Probe; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6125	----	
	89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		MKP-6110A MK-6110A	MKP-1110A MK-1110A	
	89	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		505-6110A	----	
	89	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		----	505-1110B	
	89-86	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6125	----	
	89-86	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6125	----	
	88-86	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		MKP-6110A MK-6110A	MKP-1110A MK-1110A	
	88-86	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		505-6110A	----	
	88-86	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		----	505-1110B	

# Ford Car

## 3.0L 183 (2982cc) DOHC V6 (24 Valve), 89mm Bore (Yamaha Eng.) 1990-89 **23**

VIN Code "Y" 1989-95 (SHO)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
12	Exhaust	90-89	V-4504X Std Only	Chrome plated stem; 1.1800" Head Dia., .2350" Stem Dia., 3.8160" O.A.L.
6	Int.	90-89	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
1	Head Bolt Set	90-89	260-2528	Replacement recommended

## 3.3L 200 OHV L6, 3.68" Bore 1983-63 **24**

VIN Codes "B" 1980-82, "T" 1963-79, "X" 1983

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	83-63	KT3-351S	Incl. (1) 222-351, (1) 223-308, (1) 223-397
1	Timing Chain	83-63	222-351	50 Links
1	Crank Sprocket	83-63	223-397	19 Teeth
1	Cam Sprocket	83-63	223-308	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	83-73	CS-658	
1	Camshaft	72-63	CS-448	Hyd.
12	Lifter	83-63	HT-2083 Std Only	Hyd.
12	Lifter, Bulk	83-63	HT-2083B Std Only	Hyd.; Carton of 122
1	Prelube	83-63	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	83-73	KC-658	Hyd.; Incl. (1) CS-658, (12) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	72-63	KC-448	Hyd.; Incl. (1) CS-448, (12) HT-2083, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-73	KCT-658	Hyd.; Incl. (1) CS-658, (12) HT-2083, (1) KT3-351S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	83-77	RP-3176A	W/Non-adj. rocker arms; +1/16" longer length; 8.4100" O.A.L.
12	Push Rod	83-77	RP-3176B	W/Non-adj. rocker arms; -1/16" shorter length; 8.2900" O.A.L.
12	Push Rod	83-77	RP-3176	W/Non-adj. rocker arms; Std. length; 8.3500" O.A.L.
12	Push Rod	76-63	RP-3076	w/adj. rocker arms; Std. length; 8.2300" O.A.L.
12	Push Rod	76-63	RP-3176A	W/Non-adj. rocker arms; +1/16" longer length; 8.4100" O.A.L.
12	Push Rod	76-63	RP-3176B	W/Non-adj. rocker arms; -1/16" shorter length; 8.2900" O.A.L.
12	Push Rod	76-63	RP-3176	W/Non-adj. rocker arms; Std. length; 8.3500" O.A.L.
12	Push Rod, Bulk	83-77	BRP-3176	W/Non-adj. rocker arms; Std. length; Carton of 100; 8.3500" O.A.L.
12	Push Rod, Bulk	76-63	BRP-3176	W/Non-adj. rocker arms; Std. length; Carton of 100; 8.3500" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	83-63	R-810	Adj.
1	Rocker Shaft	83-63	RS-619	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	83-77	V-1983 Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.
6	Exhaust	76-73	V-1983 Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.
6	Exhaust	72-65	V-1983 Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.
6	Exhaust	64-63	V-1439 Std Only	1.2660" Head Dia., .3100" Stem Dia., 4.2600" O.A.L.
6	Intake	83-77	V-2073 Std Only	Chrome plated stem; 1.7510" Head Dia., .3103" Stem Dia., 4.2600" O.A.L.
6	Intake	72-65	V-1717 Std Only	w/o Chrome plated stem; 1.6555" Head Dia., .3102" Stem Dia., 4.2638" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
24	Guide	83-63	VG-5009	Exh. & Int.; .3120" ID, 1.8800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	83-63	VS-624	1.8280" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	83-63	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	83-63	MV-1796A	Umbrella type; Fits Std. to .015" O/S valve stem
12	Valve Stem Seal Bulk	83-63	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	83-63	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber

VALVE TRAIN

VALVE TRAIN

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# Ford Car

**24 3.3L 200 OHV L6, 3.68" Bore 1983-63**  
 (cont.) VIN Codes "B" 1980-82, "T" 1963-79, "X" 1983

VALVE TRAIN		QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN					
VALVE TRAIN		6	Exh.	83-77	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth	VALVE TRAIN					
		6	Exh.	83-77	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth						
		6	Int.	83-77	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth						
		6	Int.	83-77	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth						
		6	Exh.	76-65	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth						
		6	Exh.	76-65	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth						
		6	Int.	76-65	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth						
		6	Int.	76-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth						
		6	Exh.	64-63	245-1375-4 Std Only	1.3795" OD, 1.1250" ID, .1855" Depth						
		6	Int.	64-63	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth						
		6	Int.	64-63	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth						
		VALVE TRAIN		QTY	VALVE, MISC	YEARS			PART NO.	DESCRIPTION	VALVE TRAIN	
24	Keeper			83-63	VK-144	1 groove; Square cut key groove						
24	Keeper			83-63	VK-144R	1 groove; Square cut key groove; Hardened						
24	Keeper, Bulk			83-63	VK-144B	1 groove; Square cut key groove; Carton of 1000						
12	Spring Insert			83-63	259-102C	.015"; Carton of 100						
12	Spring Insert			83-63	259-102B	.030"; Carton of 100						
12	Spring Insert			83-63	259-102A	.060"; Carton of 100						
12	Spring Insert			83-63	259-102ARS	.060"; Carton of 500						
BLOCK				QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK			
				6	Cast Piston	83-63	275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.				
				6	Cast Piston - Individual	83-63	W275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.				
				QTY	RINGS	YEARS	PART NO.	DESCRIPTION				
		1	Premium Set	83-63	E-219K Std-20-30-40-60	2-5/64, 1-3/16						
		1	Standard Set	83-63	E-219X Std-20-30-40-60	2-5/64, 1-3/16						
		6	Premium Single Cylinder Set	83-63	WE-219K Std-20-30-40-60	2-5/64, 1-3/16						
		6	Standard Single Cylinder Set	83-63	WE-219X Std-20-30-40-60	2-5/64, 1-3/16						
		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION						
		1	Main Set	83-76	5071M Std-1-10-20-30	7 partial groove brgs.						
		1	Main Set	75	5071M Std-1-10-20-30	From 5/75; 7 partial groove brgs.						
		1	Main Set	75	4290M Std-10-20-30	To 4/75; 7 full groove brgs.						
1	Main Set	75-64	4222M Std-10-20	W/4 brgs.								
1	Main Set	74-64	4290M Std-10-20-30	7 full groove brgs.								
1	Rod Set	83-63	6-2380CP Std-1-10-20-30-40									
6	Rod Pair	83-63	2380CP Std-1-10-20-30-40									
1	Cam Set	83-63	1439M Std Only									
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK					
		1	Oil Pump	83-65	224-41146							
		1	Inter. Shaft	83-65	224-61120							
		1	Screen Assy.	77-65	224-11146							
		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION						
		1	Kit Gasket Set	83-63	260-1002	Premium valve stem seals incl.						
		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION						
		1	Brass Block Plug Kit	83-63	381-8013							
		KITS		RE-RING KIT								
				YEARS	DESCRIPTION					PREMIUM KIT NO.	ECONOMY KIT NO.	
				83-76	Premium valve stem seals incl.; Incl. 7 partial groove brgs.	Re-ring w/Mains				205-608AM	205-108AM	
				83-63	Premium valve stem seals incl.	Re-ring				205-608A	205-108A	
75	To 4/75; Premium valve stem seals incl.; Incl. 7 full groove main brgs.			Re-ring w/Mains		205-608M	205-108M					
75	From 5/75; Premium valve stem seals incl.; Incl. 7 partial groove brgs.			Re-ring w/Mains		205-608AM	205-108AM					
74-64	Premium valve stem seals incl.; Incl. 7 full groove main brgs.			Re-ring w/Mains		205-608M	205-108M					
OVERHAUL KIT												
YEARS	DESCRIPTION					PREMIUM KIT NO.	ECONOMY KIT NO.					
83-76	Premium valve stem seals incl.			Master w/o Rods & Mains		505-608D	505-108D					
83-76	Premium valve stem seals incl.; Incl. 7 partial groove brgs.			Master Master w/o Pistons		MKP-608D MK-608D	MKP-108D MK-108D					
75	To 4/75; Premium valve stem seals incl.; Incl. 7 full groove main brgs.			Master Master w/o Pistons		MKP-608C MK-608C	MKP-108C MK-108C					

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# Ford Car

**3.3L 200 OHV L6, 3.68" Bore 1983-63 24**  
 VIN Codes "B" 1980-82, "T" 1963-79, "X" 1983 (cont.)

K I T S	OVERHAUL KIT (cont.)			PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
K I T S	75	From 5/75; Premium valve stem seals incl.; Incl. 7 partial groove brgs.	Master Master w/o Pistons	MKP-608D MK-608D	MKP-108D MK-108D	K I T S
	75	Premium valve stem seals incl.	Master w/o Rods & Mains	505-608D	505-108D	
	74-73	Premium valve stem seals incl.; Incl. 7 full groove main brgs.	Master Master w/o Pistons	MKP-608C MK-608C	MKP-108C MK-108C	
	74-73	Premium valve stem seals incl.	Master w/o Rods & Mains	505-608D	505-108D	
	72-65	Premium valve stem seals incl.	Master w/o Rods & Mains	505-608A	505-108A	
	72-65	Premium valve stem seals incl.; Incl. 7 full groove main brgs.	Master Master w/o Pistons	MKP-608A MK-608A	MKP-108A MK-108A	

**3.3L 200 L-HEAD L4 (Models A & B), 3.875" Bore 1934-28 25**

B L O C K	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	B L O C K
	8	Intake	34-28	V-130	Std Only	
B L O C K	8	VALVE SPRING	34-28	VS-71	3.0000" Free Height	B L O C K
	8	Spring				
B L O C K	8	VALVE SEAT	34-28	245-1625-1N	Std Only	B L O C K
	8	Exh. & Int.	34-28	245-1625-1	Std Only	
B L O C K	4	PISTON	34-28	145P	Std-40-60-80-100	B L O C K
	4	Cast Piston			Cast; 2-1/8", 1-5/32" Ring Groove, 1.906" CD, 1.0030" Pin Dia., Flat Head 3 ring piston w/.003" oversized pin - 4.2:1 C.R.; Not factory duplicate	
B L O C K	4	Cast Piston - Individual	34-28	W145P	Std-40-60-80-100	B L O C K
	4	Cast Piston - Individual			Cast; 2-1/8", 1-5/32" Ring Groove, 1.906" CD, 1.0030" Pin Dia., Flat Head 3 ring piston w/.003" oversized pin - 4.2:1 C.R.; Not factory duplicate	
B L O C K	4	SLEEVE	34-28	SL-20Y	Std Only	B L O C K
	4	Repair Sleeve			1/8" wall, must be cut to correct length	

**3.5L 215 OHV L6, 3.5625" Bore 1953-52 26**  
 VIN Code "A" 1952-53

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Timing Chain	53-52	222-354	Silent type; 1" wide chain; 56 Links	
1	Crank Sprocket	53-52	223-250	Use w/silent type chain; 21 Teeth		
1	Cam Sprocket	53-52	223-249	Use w/silent type chain; 42 Teeth		
V A L V E T R A I N	12	PUSH ROD	53-52	RP-3021	Replaces O.E. Nos. B9AE-6565G & B7Q-6565A; 9.8200" O.A.L.	V A L V E T R A I N
	12	Push Rod				
V A L V E T R A I N	6	VALVE	53-52	V-1127	Std Only	V A L V E T R A I N
	6	Exhaust			Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.	
V A L V E T R A I N	12	VALVE GUIDE	53-52	VG-5034	Cut to fit; .3430" ID, 2.5000" O.A.L.	V A L V E T R A I N
	12	Guide				
V A L V E T R A I N	6	VALVE SPRING	53-52	VS-1575	Exh.; 2.1250" Free Height	V A L V E T R A I N
	6	Spring, Bulk	53-52	VS-1575B	Exh.; Carton of 250; 2.1250" Free Height	
V A L V E T R A I N	12	VALVE SEAL	53-52	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE	V A L V E T R A I N
	12	Valve Stem Seal			O-Ring; Rubber	
V A L V E T R A I N	12	Valve Stem Seal	53-52	MV-1233C	O-Ring; Rubber	V A L V E T R A I N
	12	Valve Stem Seal Bulk	53-52	MV-1233	O-Ring; Carton of 100; Rubber	
V A L V E T R A I N	12	Valve Stem Seal Bulk	53-52	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	V A L V E T R A I N
	12	Valve Stem Seal Bulk				
V A L V E T R A I N	24	VALVE, MISC	53-52	VK-115	1 groove; Square cut key groove	V A L V E T R A I N
	24	Keeper	53-52	VK-115R	1 groove; Square cut key groove; Hardened	
V A L V E T R A I N	24	Keeper, Bulk	53-52	VK-115B	1 groove; Square cut key groove; Carton of 1000	V A L V E T R A I N
	24	Keeper, Bulk				
V A L V E T R A I N	1	RINGS	53-52	E-237KC	Std-20-30-40-60	V A L V E T R A I N
	1	Premium Set			2-3/32, 1-3/16	
V A L V E T R A I N	1	Standard Set	53-52	E-237X	Std-20-30-40-60-80	V A L V E T R A I N
	1	Premium Single Cylinder Set	53-52	WE-237KC	Std-20-30-40-60	
V A L V E T R A I N	6	Premium Single Cylinder Set	53-52	WE-237X	Std-30-40-60-80	V A L V E T R A I N
	6	Standard Single Cylinder Set	53-52	WE-237X	Std-30-40-60-80	

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## 26 3.5L 215 OHV L6, 3.5625" Bore 1953-52

(cont.) VIN Code "A" 1952-53

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	53-52	4056M Std-10-20-30	
6	Rod Pair	53-52	1830CP Std-1-2-10-20-30-40-50	1 oil hole
1	Cam Set	53-52	1133M Std Only	w/o cross-drilled cam journals

## 27 3.6L 221 OHV V8, 3.5" Bore 1963-62

VIN Code "L" 1962-63

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	63-62	KT3-356S	Incl. (1) 222-356, (1) 223-326, (1) 223-327
1	Timing Chain	63-62	222-356	58 Links
1	Crank Sprocket	63-62	223-327	21 Teeth
1	Cam Sprocket	63-62	223-326	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	63-62	HT-900 Std Only	Hyd.
16	Lifter, Bulk	63-62	HT-900B Std Only	Hyd.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	63-62	RP-3222R	Chrome-Moly; 6.8040" O.A.L.
16	Push Rod	63-62	RP-3165	6.8010" O.A.L.
16	Push Rod, Bulk	63-62	BRP-3165	Carton of 100; 6.8010" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	63-62	R-836	Incl. arm, ball & nut; Flat style rockers
16	Arm Assy., Bulk	63-62	R-836B	Incl. arm, ball & nut; Flat style rockers; Carton of 64
16	Arm	63-62	R-836A	
16	Pivot Ball	63-62	MR-1809	
16	Nut	63-62	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	63-62	V-1613 Std Only	1.3880" Head Dia., .3095" Stem Dia., 4.8630" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	63-62	VS-1575	2.1250" Free Height
16	Spring, Bulk	63-62	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	63-62	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	63-62	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	63-62	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	63-62	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	63-62	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
8	Exh.	63-62	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
8	Int.	63-62	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	63-62	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	63-62	VK-144	1 groove; Square cut key groove
32	Keeper	63-62	VK-144R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	63-62	VK-144B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	63-62	259-102C	.015"; Carton of 100
16	Spring Insert	63-62	259-102B	.030"; Carton of 100
16	Spring Insert	63-62	259-102A	.060"; Carton of 100
16	Spring Insert	63-62	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	63-62	1112P30 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9122" Pin Dia., Flat Head - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	63-62	E-236K Std-30	2-5/64, 1-3/16
1	Standard Set	63-62	E-236X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	63-62	WE-236K Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	63-62	WE-236X Std-30-40	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	63-62	SL-15M Std Only	3/32" wall, Must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-62	7151M10 10-20-30	.020" O/S length flange brg.
1	Main Set	63-62	4125MA Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set	63-62	4125M Std-1-10-20-30-40	Incl. contoured design thrust brg.

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**3.6L 221 OHV V8, 3.5" Bore 1963-62 27**  
VIN Code "L" 1962-63 (cont.)

B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
		1	(cont.) Rod Set	63-62	<b>8-2600A</b> Std-1-2-10-20-30-40-60
	1	Rod Set	63-62	<b>8-2600A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
	1	Rod Set	63-62	<b>8-2600CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
	1	Rod Set	63-62	<b>8-2600CP</b> Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
	1	Rod Set	63-62	<b>8-2600CA60</b> 60	Unplated & resizeable
	8	Rod Pair	63-62	<b>2600CP</b> Std-1-2-10-20-30-40	
	8	Rod Pair	63-62	<b>2600A</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Cam Set	63-62	<b>1204M</b> Std-10	Babbitt material; Full round design
B L O C K	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	63-62	<b>224-41118</b>	
	1	Oil Pump	63-62	<b>224-43370</b>	High Pressure
	1	Oil Pump	63-62	<b>224-41128</b>	High Volume, check pan for clearance; Incl. inter. shaft
	1	Inter. Shaft	63-62	<b>224-61118</b>	
	1	Screen Assy.	63-62	<b>224-11118</b>	
B L O C K	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	63-62	<b>381-8015</b>	
	1	Steel Block Plug Kit	63-62	<b>381-4010</b>	

**3.6L 221 L-HEAD V8 (Ford), 3.0625" Bore 1942-39 28**

B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
		8	Pin Bushing	42-39	<b>9024XBS</b>
	8	Pin Bushing	42-39	<b>9024V</b>	Split type bushing; .801" max. housing bore
	8	Pin Bushing	42-39	<b>9024VA</b>	Split type bushing; .8125" max. housing bore
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	42-39	<b>533M</b> Std-10-20-30	
	8	Rod Pair	42-39	<b>9800CA</b> Std-10-20-30	
	1	Cam Set	42-39	<b>1005M</b> Std Only	

**3.6L 223 OHV L6, 3.625" Bore 1964-54 29**  
VIN Codes "A" 1954-61, "V" 1960-64

V A L V E	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	Timing Chain	64-54	<b>222-354</b>
	1	Crank Sprocket	64-54	<b>223-250</b>	w/chain driven cam; Use w/silent type chain; 21 Teeth
	1	Cam Sprocket	64-54	<b>223-249</b>	w/chain driven cam; Use w/silent type chain; 42 Teeth
V A L V E	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	64-55	<b>CS-559</b>	w/o Zero lash rocker arms; Will replace cross drilled or non-cross drilled camshafts; 12 teeth on dist. drive gear
	1	Prelube	64-55	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
V A L V E	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	12	Push Rod	64-54	<b>RP-3021</b>	9.8200" O.A.L.
V A L V E	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	6	Exhaust	64-54	<b>V-1127</b> Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
	6	Intake	64-54	<b>V-1115</b> Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
V A L V E	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	12	Guide	64-54	<b>VG-5034</b>	Cut to fit; .3430" ID, 2.5000" O.A.L.
V A L V E	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	12	Spring	64-60	<b>VS-1575</b>	w/o Zero lash rocker arms; 2.1250" Free Height
	12	Spring	59-54	<b>VS-1575</b>	2.1250" Free Height
	12	Spring, Bulk	64-60	<b>VS-1575B</b>	w/o Zero lash rocker arms; Carton of 250; 2.1250" Free Height
	12	Spring, Bulk	59-54	<b>VS-1575B</b>	Carton of 250; 2.1250" Free Height
V A L V E	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	12	Valve Stem Seal	64-54	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
	12	Valve Stem Seal	64-54	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal	64-54	<b>MV-1599C</b>	Umbrella type; Rubber
	12	Valve Stem Seal Bulk	64-54	<b>MV-1599</b>	Umbrella type; Carton of 100; Rubber
	12	Valve Stem Seal Bulk	64-54	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
V A L V E	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	6	Exh.	64-54	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth

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## 29 3.6L 223 OHV L6, 3.625" Bore 1964-54

(cont.) VIN Codes "A" 1954-61, "V" 1960-64

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
6	Exh.	64-54	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
6	Int.	64-54	245-1875-6 Std Only	1.8800" OD, 1.6250" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	64-54	VK-115	1 groove; Square cut key groove
24	Keeper	64-54	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	64-54	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	64-54	259-102C	.015"; Carton of 100
12	Spring Insert	64-54	259-102B	.030"; Carton of 100
12	Spring Insert	64-54	259-102A	.060"; Carton of 100
12	Spring Insert	64-54	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	64-54	1011P Std-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 1.858" CD, .9122" Pin Dia., Flat Head - 8.3:1 C.R.
6	Cast Piston - Individual	64-54	W1011P Std-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 1.858" CD, .9122" Pin Dia., Flat Head - 8.3:1 C.R.
6	Pin Bushing	64-63	2469V	1.276" length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	64-54	E-156X Std-30-40-60	2-3/32, 1-3/16
6	Standard Single Cylinder Set	64-54	WE-156X Std-60	2-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	64-63	4056M Std-10-20-30	
6	Rod Pair	64-63	2465CPB Std-10-20	3 oil holes
1	Cam Set	64-63	1133M Std Only	w/o cross-drilled cam journals
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	61-60	224-41105	To 11/30/60; 1/4" drive & roll pin shaft retainer
1	Oil Pump	59-55	224-41105	1/4" drive & roll pin shaft retainer
1	Inter. Shaft	62	224-61104	To 7/17/62; For gear type oil pump
1	Inter. Shaft	61-55	224-61104	For gear type oil pump

## 30 3.7L 226 L-HEAD L6, 3.2969" Bore 1951-41

VIN Code "H" 1949-51

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	51-47	VG-406	.3435" ID, 2.9210" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
6	Spring	46	VS-393	Exh.; 2.4800" Free Height
6	Spring	42-41	VS-393	Exh.; 2.4800" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	51-47	VK-115	1 groove; Square cut key groove
24	Keeper	51-47	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper	46	VK-88	Valve guide retainer
24	Keeper	42-41	VK-88	Valve guide retainer
24	Keeper, Bulk	51-47	VK-115B	1 groove; Square cut key groove; Carton of 1000

## 31 3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82

VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-88	KT3-365SA1	Incl. (1) 222-376, (1) 223-539, (1) 223-700
1	3 Piece Set	87-82	KT3-365SA	Incl. (1) 222-365, (1) 223-539, (1) 223-542A
1	Timing Chain	90-88	222-376	60 Links
1	Timing Chain	87-82	222-365	60 Links
1	Timing Chain Tensioner	90	222-323CT	
1	Crank Sprocket	90-82	223-539	21 Teeth
1	Cam Sprocket	90-88	223-700	42 Teeth
1	Cam Sprocket	87-82	223-542A	42 Teeth
1	Bal. Shaft Sprocket	90	223-2769	Drive gear
1	Bal. Shaft Sprocket	90	223-2770	Driven gear
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-860	w/A/T
1	Camshaft	88	CS-786	
1	Camshaft	87-84	CS-748	
1	Camshaft	83-82	CS-733	
12	Lifter	90-89	HT-2205 Std Only	Hyd. rlr.
12	Lifter	88-82	HT-900 Std Only	Hyd.
12	Lifter, Bulk	90-89	HT-2205B Std Only	Hyd. rlr.; Carton of 122
12	Lifter, Bulk	88-82	HT-900B Std Only	Hyd.; Carton of 122
1	Prelube	90-82	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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# Ford Car

**3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82 31**  
 VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004 (cont.)

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-89	<b>KC-860</b>	w/A/T; Hyd. rlr.; Incl. (1) CS-860, (12) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	88	<b>KC-786</b>	Hyd.; Incl. (1) CS-786, (12) HT-900, (1) 55-403B
1	Cam/Lifter Kit	87-84	<b>KC-748</b>	Hyd.; Incl. (1) CS-748, (12) HT-900, (1) 55-403B
1	Cam/Lifter Kit	83-82	<b>KC-733</b>	Hyd.; Incl. (1) CS-733, (12) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	<b>KCT-786</b>	Hyd.; Incl. (1) CS-786, (12) HT-900, (1) KT3-365SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-84	<b>KCT-748</b>	Hyd.; Incl. (1) CS-748, (12) HT-900, (1) KT3-365SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-82	<b>KCT-733</b>	Hyd.; Incl. (1) CS-733, (12) HT-900, (1) KT3-365SA, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90-89	<b>RP-3284</b>	7.1360" O.A.L.
12	Push Rod	88-82	<b>RP-3234</b>	7.7700" O.A.L.
12	Push Rod, Bulk	90-89	<b>BRP-3284</b>	Carton of 100; 7.1360" O.A.L.
12	Push Rod, Bulk	88-82	<b>BRP-3234</b>	Carton of 100; 7.7700" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	90-82	<b>R-1008</b>	Incl. arm & pivot
12	Arm Assy., Bulk	90-82	<b>R-1008B</b>	Incl. arm & pivot; Carton of 64
12	Arm	90-82	<b>R-1008W</b>	
12	Bolt	90-82	<b>MR-1916</b>	
12	Pivot	90-82	<b>MR-1842</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90-82	<b>V-2231</b> Std-15	1.4600" Head Dia., .3414" Stem Dia., 4.8450" O.A.L.
6	Exhaust, Bulk	90-82	<b>V-2231B</b> Std-15	Chrome plated stem; Carton of 25; 1.4600" Head Dia., .3414" Stem Dia., 4.8450" O.A.L.
6	Intake	90-82	<b>V-2232</b> Std-15	Chrome plated stem; 1.7820" Head Dia., .3419" Stem Dia., 4.8400" O.A.L.
6	Intake, Bulk	90-82	<b>V-2232B</b> Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 4.8400" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	90-82	<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
12	Guide	90-82	<b>VG-5005H</b>	Hardened; .3430" ID, 2.2500" O.A.L.
12	Guide	90-82	<b>VG-5005T</b>	Threaded; .3425" ID, 2.2500" O.A.L.
12	Guide, Bulk	90-82	<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
12	Guide, Bulk	90-82	<b>VG-5005TB</b>	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	90-89	<b>VS-1568</b>	Incl. damper; 2.0200" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Valve Stem Seal	90-89	<b>ST-2097</b>	Exh.; Positive type; Rubber
6	Valve Stem Seal	90-89	<b>ST-2098</b>	Int.; Positive type; Rubber
6	Valve Stem Seal	88-82	<b>ST-2110</b>	Int.; Positive type
6	Valve Stem Seal	88-82	<b>MV-1819C</b>	Exh.; Umbrella type; Nylon
6	Valve Stem Seal Bulk	88-82	<b>MV-1819</b>	Exh.; Umbrella type; Carton of 50; Nylon
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-82	<b>245-1625-54</b> Std Only	1.6320" OD, 1.3290" ID, .2800" Depth
6	Int.	90-82	<b>245-1875-50</b> Std Only	1.8820" OD, 1.6400" ID, .2800" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	90-82	<b>VK-205</b>	4 groove
24	Keeper	90-82	<b>VK-205R</b>	4 groove; Hardened
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90-88	<b>H523CP</b> Std-.50-.75-1.00-1.50MM	Use w/E-471K or E-471X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, 23.2mm Pin Dia., Recessed Head .150" deep x 1.850" dia. - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	90-88	<b>H523P</b> Std-1.50MM	Use w/E-471K or E-471X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, 23.2mm Pin Dia., Recessed Head .150" deep x 1.850" dia. - 9.0:1 C.R.
6	Cast Piston	87-84	<b>490P.50MM</b> .50-.75-1.00-1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .200" deep x 2.137" dia. - 8.6:1 C.R.
6	Cast Piston	83-82	<b>481P</b> Std-.75-1.00-1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.584" CD, .9122" Pin Dia., Recessed Head .070" deep x 2.115" dia. - 8.6:1 C.R.
6	Cast Piston - Individual	90-88	<b>WH523CP</b> Std-.50-.75-1.00-1.50MM	Use w/WE-471K ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .150" deep x 1.850" dia. - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

# Ford Car

## 31 3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82 (cont.) VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
6	Cast Piston - Individual	90-88	<b>WH523P</b> Std-1.50MM	Use w/WE-471K ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .150" deep x 1.850" dia. - 9.0:1 C.R.
6	Cast Piston - Individual	87-84	<b>W490P.50MM</b> .50-.75-1.00-1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .200" deep x 2.137" dia. - 8.6:1 C.R.
6	Cast Piston - Individual	83-82	<b>W481P</b> Std-.75-1.00-1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.584" CD, .9122" Pin Dia., Recessed Head .070" deep x 2.115" dia. - 8.6:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-88	<b>6KH523CP.50MM</b> .50-.75-1.00MM	Cast; 1-1.50mm, 2-4.00mm Ring Groove, 1.607" CD, 23.2mm Pin Dia., Recessed Head .150" deep x 1.850" dia. - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	<b>E-471K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	87-82	<b>E-415K</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
1	Standard Set	90-88	<b>E-471X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	87-82	<b>E-415X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
6	Premium Single Cylinder Set	90-88	<b>WE-471K</b> Std-.50-.75-1.00MM	Use w/WH523CP piston; 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	87-82	<b>WE-415K</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
6	Standard Single Cylinder Set	87-82	<b>WE-415X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	<b>7295MA</b> Std-.026-.25-.50-.75-1.00MM	Regrinding crank more than .50mm not recommended; <b>A-Series aluminum bearings</b>
1	Main Set	90-82	<b>7368M.50MM</b> .50MM	.50MM O/S length flange brg.
1	Main Set	88-82	<b>7295MA</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-89	<b>6-3830A.026MM</b> * .026MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-89	<b>6-3830CPA</b> Std-.25-.50-.75-1.00MM	Regrinding crank more than .50mm not recommended
1	Rod Set	90-89	<b>6-3830CPA25X2</b> 25X2-50X2-75X2	Use in .002" O/S Rod Bore
1	Rod Set	88-82	<b>6-3830CPA</b> Std-.25-.50-.75-1.00MM	
1	Rod Set	88-82	<b>6-3830A.026MM</b> * .026MM	<b>A-Series aluminum bearings</b>
1	Rod Set	88-82	<b>6-3830CPA25X2</b> 25X2-50X2-75X2	Use in .002" O/S Rod Bore
6	Rod Pair	90-89	<b>3830A.026MM</b> .026MM	<b>A-Series aluminum bearings</b>
6	Rod Pair	90-89	<b>3830CPA</b> Std-.25-.50-.75-1.00MM	Regrinding crank more than .50mm not recommended
6	Rod Pair	88-82	<b>3830CPA</b> Std-.25-.50-.75-1.00MM	
6	Rod Pair	88-82	<b>3830A.026MM</b> .026MM	<b>A-Series aluminum bearings</b>
1	Cam Set	90-88	<b>1886M</b> Std Only	
1	Cam Set	87-82	<b>1493M</b> Std Only	
1	Bal. Shaft Set	90-82	<b>1807M</b>	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-88	<b>224-43567</b>	
1	Pump Repair Kit	90-88	<b>224-51380</b>	Services "short" style pump
1	Pump Repair Kit	87-82	<b>224-51162</b>	
1	Inter. Shaft	90-88	<b>224-6176</b>	
1	Inter. Shaft	87-82	<b>224-61162</b>	
1	Screen Assy.	90	<b>224-15052</b>	Continental
1	Screen Assy.	89	<b>224-15052</b>	Continental, Sable & Taurus
1	Screen Assy.	88	<b>224-15052</b>	Sable & Taurus
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	<b>260-1442</b>	Exc. Sable, Taurus & Continental; PermaDry® molded rubber valve cover gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-89	<b>260-1444</b>	Sable, Taurus & Continental; PermaDry® molded rubber valve cover gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88	<b>260-1441</b>	Exc. Sable, Taurus & Continental; PermaDry® molded rubber valve cover gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88	<b>260-1443</b>	Sable, Taurus & Continental; PermaDry® molded rubber valve cover gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87	<b>260-1211</b>	w/Plastic valve covers; PermaDry® molded rubber valve cover gsks. incl.; Premium valve stem seals incl.

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# Ford Car

**3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82 31**  
 VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004 (cont.)

	QTY	GASKETS (cont.)	YEARS	PART NO.	DESCRIPTION		
BLOCK	1	Kit Gasket Set	86	<b>260-1211</b>	From 1/15/86; w/Plastic valve covers; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	86	<b>260-1167</b>	To 1/15/86; w/Stamped steel valve covers; Premium valve stem seals incl.		
	1	Kit Gasket Set	85-84	<b>260-1167</b>	w/Stamped steel valve covers; Premium valve stem seals incl.		
	1	Kit Gasket Set	83-82	<b>260-1166</b>	w/Stamped steel valve covers; Premium valve stem seals incl.		
	1	Head Bolt Set	90-89	<b>260-2519</b>	Replacement recommended		
	1	Head Bolt Set	88-82	<b>260-2511</b>	Replacement recommended		
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	90-82	<b>381-8053</b>			
	1	Steel Block Plug Kit	90-82	<b>381-9654</b>			
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-89	Exc. Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6112M</b>	<b>205-1112M</b>
	90-89	Exc. Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6112</b>	<b>205-1112</b>
	90-89	Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6114M</b>	<b>205-1114M</b>
	90-89	Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6114</b>	<b>205-1114</b>
	88	Exc. Sable, Taurus & Continental; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6111M</b>	<b>205-1111M</b>
	88	Exc. Sable, Taurus & Continental; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6111</b>	<b>205-1111</b>
	88	Sable, Taurus & Continental; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6113M</b>	<b>205-1113M</b>
	88	Sable, Taurus & Continental; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6113</b>	----
	88	Sable, Taurus & Continental; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		----	<b>205-1113C</b>
	87	w/Plastic valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-886M</b>	<b>205-386M</b>
	87	w/Plastic valve covers; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-886</b>	<b>205-386</b>
	86	To 1/15/86; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-758M</b>	<b>205-258M</b>
	86	To 1/15/86; w/Stamped steel valve covers; Premium valve stem seals incl.		Re-ring		<b>205-758</b>	<b>205-258</b>
	86	From 1/15/86; w/Plastic valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-886M</b>	<b>205-386M</b>
	86	From 1/15/86; w/Plastic valve covers; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-886</b>	<b>205-386</b>
	85-84	w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-758M</b>	<b>205-258M</b>
	85-84	w/Stamped steel valve covers; Premium valve stem seals incl.		Re-ring		<b>205-758</b>	<b>205-258</b>

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# Ford Car

**31 3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82**  
 (cont.) VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
83-82	w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-757M	205-257M
83-82	w/Stamped steel valve covers; Premium valve stem seals incl.	Re-ring	205-757	205-257
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	Exc. Sable, Taurus & Continental; w/A/T; Incl. oil pump repair kit for "short" style pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6112B	505-1112B
90-89	Exc. Sable, Taurus & Continental; w/A/T; Regrinding crank more than .50mm not recommended; Incl. oil pump repair kit for "short" style pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6112B MK-6112B	MKP-1112B MK-1112B
90-89	Exc. Sable, Taurus & Continental; w/A/T; Incl. oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6112C	505-1112C
90-89	Exc. Sable, Taurus & Continental; w/A/T; Regrinding crank more than .50mm not recommended; Incl. oil pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6112C MK-6112C	MKP-1112C MK-1112C
90-89	Sable, Taurus & Continental; w/A/T; Incl. oil pump repair kit for "short" style pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6114B	505-1114B
90-89	Sable, Taurus & Continental; w/A/T; Regrinding crank more than .50mm not recommended; Incl. oil pump repair kit for "short" style pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6114B MK-6114B	MKP-1114B MK-1114B
90-89	Sable, Taurus & Continental; w/A/T; Incl. oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6114C	505-1114C
90-89	Sable, Taurus & Continental; w/A/T; Regrinding crank more than .50mm not recommended; Incl. oil pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6114C MK-6114C	MKP-1114C MK-1114C
90-89	Exc. Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6134	----
90-89	Exc. Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6134	----
90-89	Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6135	----
90-89	Sable, Taurus & Continental; Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6135	----
88	Exc. Sable, Taurus & Continental; Incl. oil pump repair kit for "short" style pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6111A MK-6111A	MKP-1111A MK-1111A
88	Exc. Sable, Taurus & Continental; Incl. oil pump repair kit for "short" style pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6111A	505-1111A
88	Exc. Sable, Taurus & Continental; Incl. oil pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6111C MK-6111C	MKP-1111C MK-1111C

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# Ford Car

**3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1990-82 31**  
 VIN Codes "C" 1982-85, "3" 1982-87, "4" 1987-2004 (cont.)

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	88	Exc. Sable, Taurus & Continental; Incl. oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	505-6111C	505-1111C	
	88	Sable, Taurus & Continental; Incl. oil pump repair kit for "short" style pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	MKP-6113B MK-6113B	MKP-1113B MK-1113B	
	88	Sable, Taurus & Continental; Incl. oil pump repair kit for "short" style pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	505-6113B	505-1113B	
	88	Sable, Taurus & Continental; Incl. oil pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	MKP-6113C MK-6113C	MKP-1113C MK-1113C	
	88	Sable, Taurus & Continental; Incl. oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	505-6113C	505-1113C	
	87	w/Plastic valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Camshaft w/thrust washer	MKP-886A MK-886A	MKP-386A MK-386A	
	87	w/Plastic valve covers; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Camshaft w/thrust washer	505-886A	505-386A	
	86	To 1/15/86; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Camshaft w/thrust washer	MKP-758A MK-758A	MKP-258A MK-258A	
	86	To 1/15/86; w/Stamped steel valve covers; Premium valve stem seals incl.; Camshaft w/thrust washer	505-758A	505-258A	
	86	From 1/15/86; w/Plastic valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Camshaft w/thrust washer	MKP-886A MK-886A	MKP-386A MK-386A	
	86	From 1/15/86; w/Plastic valve covers; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Camshaft w/thrust washer	505-886A	505-386A	
	85-84	w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Camshaft w/thrust washer	MKP-758A MK-758A	MKP-258A MK-258A	
	85-84	w/Stamped steel valve covers; Premium valve stem seals incl.; Camshaft w/thrust washer	505-758A	505-258A	
	83-82	w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Camshaft w/o thrust washer	MKP-757A MK-757A	MKP-257A MK-257A	
	83-82	w/Stamped steel valve covers; Premium valve stem seals incl.; Camshaft w/o thrust washer	505-757A	505-257A	

**3.8L 232 (3797cc) OHV V6 (Supercharged), 96.8mm Bore 1990-89 32**  
 VIN Codes "C" 1989 (S/C), "R" 1989-95 (S/C)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-89	KT3-365SA1	Incl. (1) 222-376, (1) 223-539, (1) 223-700
1	Timing Chain	90-89	222-376	60 Links
1	Crank Sprocket	90-89	223-539	21 Teeth
1	Cam Sprocket	90-89	223-700	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-861	w/M/T
12	Lifter	90-89	HT-2205 Std Only	Hyd. rlr.
12	Lifter, Bulk	90-89	HT-2205B Std Only	Hyd. rlr.; Carton of 122
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-89	KC-861	w/M/T; Hyd. rlr.; Incl. (1) CS-861, (12) HT-2205, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-89	RP-3284	7.1360" O.A.L.

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# Ford Car

## 32 3.8L 232 (3797cc) OHV V6 (Supercharged), 96.8mm Bore 1990-89

(cont.) VIN Codes "C" 1989 (S/C), "R" 1989-95 (S/C)

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
12	Arm Assy.	90-89	R-1008	Incl. arm & pivot	
12	Arm Assy., Bulk	90-89	R-1008B	Incl. arm & pivot; Carton of 64	
12	Arm	90-89	R-1008W		
12	Bolt	90-89	MR-1916		
12	Pivot	90-89	MR-1842		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	90-89	V-2231 Std-15	1.4600" Head Dia., .3414" Stem Dia., 4.8450" O.A.L.	
6	Intake	90-89	V-2232 Std-15	Chrome plated stem; 1.7820" Head Dia., .3419" Stem Dia., 4.8400" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
12	Guide	90-89	VG-5005	.3430" ID, 2.2500" O.A.L.	
12	Guide	90-89	VG-5005T	Threaded; .3425" ID, 2.2500" O.A.L.	
12	Guide, Bulk	90-89	VG-5005B	Carton of 50; .3430" ID, 2.2500" O.A.L.	
12	Guide, Bulk	90-89	VG-5005TB	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring	90-89	VS-1568	Incl. damper; 2.0200" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
6	Valve Stem Seal	90-89	ST-2097	Exh.; Positive type; Rubber	
6	Valve Stem Seal	90-89	ST-2098	Int.; Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6		90-89	245-1625-54 Std Only	1.6320" OD, 1.3290" ID, .2800" Depth	
6	Int.	90-89	245-1875-50 Std Only	1.8820" OD, 1.6400" ID, .2800" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	90-89	VK-205	4 groove	
24	Keeper	90-89	VK-205R	4 groove; Hardened	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	90-89	H675CP Std-.50-.75-1.00MM	Use w/E-471K ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .170" deep; <b>DurOshield® skirt coated piston</b>	
6	Cast Piston - Individual	90-89	WH675CP Std-.50-.75-1.00MM	Use w/WE-471K ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.607" CD, .9122" Pin Dia., Recessed Head .170" deep; <b>DurOshield® skirt coated piston</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-89	E-471K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
6	Premium Single Cylinder Set	90-89	WE-471K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-89	7086MA Std-.25MM	<b>A-Series aluminum bearings</b>	
1	Rod Set	90-89	6-3830CPA Std-.25-.50-.75-1.00MM	Regrinding crank more than .50mm not recommended	
1	Rod Set	90-89	6-3830CPA25X2 25X2-50X2-75X2	Use in .002" O/S Rod Bore	
6	Rod Pair	90-89	3830CPA Std-.25-.50-.75-1.00MM	Regrinding crank more than .50mm not recommended	
1	Cam Set	90-89	1886M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-89	224-43567		
1	Pump Repair Kit	90-89	224-51380	Services "short" style pump	
1	Inter. Shaft	90-89	224-6176		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90	260-1612	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	89	260-1612	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	
2	Head Bolt Set	90-89	260-2519	Replacement recommended	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-89	381-8053		
1	Steel Block Plug Kit	90-89	381-9654		
RE-RING KIT				PREMIUM	ECONOMY
YEARS	DESCRIPTION			KIT NO.	KIT NO.
90	Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6339M	----

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# Ford Car

**3.8L 232 (3797cc) OHV V6 (Supercharged), 96.8mm Bore 1990-89 32**

VIN Codes "C" 1989 (S/C), "R" 1989-95 (S/C) (cont.)

RE-RING KIT (cont.)	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90	Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6339
89	Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6339M	----
89	Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6339	----
OVERHAUL KIT	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6138	----
90-89	Regrinding crank more than .50mm not recommended; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6138	----
90-89	w/M/T; Regrinding crank more than .50mm not recommended; Incl. oil pump; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master		MKP-6339B	----
90-89	w/M/T; Regrinding crank more than .50mm not recommended; Incl. oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		505-6339B	----
90-89	w/M/T; Regrinding crank more than .50mm not recommended; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-6339B	----

**3.9L 239 OHV V8 (Ford), 3.5" Bore 1954 33**

VIN Code "U" 1954

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	54	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	54	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	54	223-249	Use w/silent type chain; 42 Teeth
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	54	RP-3017	8.2580" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	54	RA-1001H	For 1 bank
1	Shaft Assy.	54	RA-1001	For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	54	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	54	V-1128 Std Only	1.6470" Head Dia., .3420" Stem Dia., 5.0900" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	54	VG-5071	Exh.; Cut to fit; .3440" ID, 2.6250" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	54	VS-1575	2.1250" Free Height
16	Spring, Bulk	54	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	54	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	54	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	54	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	54	MV-1599	Umbrella type; Carton of 100; Rubber
16	Valve Stem Seal Bulk	54	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	54	VK-115	1 groove; Square cut key groove
32	Keeper	54	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	54	VK-115B	1 groove; Square cut key groove; Carton of 1000

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# Ford Car

## 33 3.9L 239 OHV V8 (Ford), 3.5" Bore 1954

(cont.) VIN Code "U" 1954

BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	8	Pin Bushing	54	1834V20	1.306" length; .020" extra bore stock	
	8	Pin Bushing	54	1834V	1.306" max. length	
	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
	8	Repair Sleeve	54	SL-15M Std Only	3/32" wall, Must be cut to correct length	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	54	884M Std-10-20-30-40-50	8-2000CAA 60 avail. as unplated & resizeable		
1	Rod Set	54	8-2000CPA Std-10-20-30-40			
8	Rod Pair	54	2000CPA Std-1-10-20-30-40			
1	Cam Set	54	1223M Std Only		w/Cross-drilled No. 3 cam journal	
1	Cam Set	54	1160M Std Only		w/Grooved No. 3 cam journal	

## 34 3.9L 239.4 L-HEAD V8 (Ford/Mercury), 3.1875" Bore 1953-46

VIN Code "B" 1949-53

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Gear Set	53-49	221-2727S	221-2702 not sold separately; Incl. (1) 221-2701, (1) 221-2702	
	1	Crank Gear	53-49	221-2701	22 Teeth	
	1	Crank Gear	48-46	221-4704	22 Teeth	
	1	Cam Gear	53-49	221-2702	Alum.; 44 Teeth	
	1	Cam Gear	48-46	221-4706	Alum.; 44 Teeth	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	16	Intake	53-52	V-1041 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8170" O.A.L.	
	16	Intake	51-49	V-967 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8190" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	16	Guide	53-49	VG-428	Use w/MV-1231 seal; .3435" ID, 2.2000" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	16	Spring	53-52	VS-392	2.2000" Free Height	
	16	Spring	51-46	VS-393	2.4800" Free Height	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
	16	Valve Stem Seal	53-49	MV-1231	O-Ring; Carton of 50; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	53-46	245-1640-1 Std Only	1.6395" OD, 1.3750" ID, .2480" Depth		
8	Int.	53-46	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth		
8	Int.	53-46	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
32	Keeper	53-49	VK-115	1 groove; Square cut key groove		
32	Keeper	53-49	VK-115R	1 groove; Square cut key groove; Hardened		
32	Keeper	53-46	VK-88	Valve guide retainer		
32	Keeper, Bulk	53-49	VK-115B	1 groove; Square cut key groove; Carton of 1000		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	8	Cast Piston	53-46	1003P Std-20-30-40-60-80	Cast; 2-3/32", 2-3/16" Ring Groove, 1.519 plus .210 crown" CD, .7500" Pin Dia., Crowned Head w/ring below pin - 7.0:1 C.R.; Not factory duplicate; Repl. O.E. No. 8BA-6108A	
	8	Cast Piston - Individual	53-46	W1003P Std-20-30-40-60-80	Cast; 2-3/32", 2-3/16" Ring Groove, 1.519 plus .210 crown" CD, .7500" Pin Dia., Crowned Head w/ring below pin - 7.0:1 C.R.; Not factory duplicate; Repl. O.E. No. 8BA-6108A	
	8	Pin Bushing	53-46	9024XBS	.820" max. housing bore	
	8	Pin Bushing	53-46	9024VA	Split type bushing; .8125" max. housing bore	
	8	Pin Bushing	48-46	9024V	Split type bushing; .801" max. housing bore	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	2	Premium Set	49-46	997KX Std Only	100 HP Eng.; 2-3/32, 2-5/32	
	1	Premium Set	49-46	E-247KC30 30-40-60	2-3/32, 2-3/16	
	1	Standard Set	53-46	E-247X Std-30-40-60-80	2-3/32, 2-3/16	
	2	Standard Set	49-46	997X Std Only	100 HP Eng.; 2-3/32, 2-5/32	
	8	Standard Single Cylinder Set	53-46	WE-247X Std-30-40	2-3/32, 2-3/16	
	8	Standard Single Cylinder Set	49-46	W-997X Std Only	100 HP Eng.; 2-3/32, 2-5/32	
	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
	8	Dry Sleeve	53-49	SL-140M Std Only	Flanged, finished bore sleeve; NOTE: Use SL-140M w/3.377" OD when block is not milled between valves and bore; Grind valve reliefs if necessary	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	53-48	646M Std-10-20-30	100 HP		
1	Main Set	48-46	533M Std-10-20-30			

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# Ford Car

**3.9L 239.4 L-HEAD V8 (Ford/Mercury), 3.1875" Bore 1953-46 34**

VIN Code "B" 1949-53 (cont.)

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	(cont.) Rod Set	53-48	<b>8-1505CAA</b> Std-10-20		
	8	Rod Pair	53-48	<b>1505CAA</b> Std-10-20-30-40		
	8	Rod Pair	53-46	<b>9805CA10</b> 10-20-30		
	1	Cam Set	53-46	<b>1005M</b> Std Only		
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Oil Pump	53-48	<b>224-41108</b>	w/drive gear	
<b>3.9L 240 OHV L6, 4" Bore 1972-65 35</b>						
VIN Codes "B" 1965-70, "E" 1965-72, "V" 1965-72						
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Exhaust	72-65	<b>V-1937X</b> Std Only	Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
	6	Exhaust	72-65	<b>V-2040</b> Std Only	Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
	6	Exhaust, Bulk	72-65	<b>V-2040B</b> Std Only	Chrome plated stem; Carton of 25; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
	6	Intake	72-65	<b>V-2041</b> Std-15	Chrome plated stem; 1.7800" Head Dia., .3420" Stem Dia., 4.8100" O.A.L.	
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Guide	72-65	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.	
	6	Guide, Bulk	72-65	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.	
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Spring	72-65	<b>VS-656</b>	Exh.; Use w/Rotators; 1.8750" Free Height	
	12	Spring	72-65	<b>VS-648</b>	Exh. & Int.; w/o Rotators; 1.9900" Free Height	
	12	Spring	72-65	<b>VS-661</b>	Exh. & Int.; Incl. damper; 2.0460" Free Height	
	6	Spring, Bulk	72-65	<b>VS-656B</b>	Exh.; Use w/Rotators; Carton of 300; 1.8750" Free Height	
	12	Spring, Bulk	72-65	<b>VS-648B</b>	Exh. & Int.; w/o Rotators; Carton of 200; 1.9900" Free Height	
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	12	Valve Stem Seal	72-65	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE	
	12	Valve Stem Seal	72-65	<b>MV-1903</b>	Use w/VG-5038 repair guide; Positive type; Rubber	
	12	Valve Stem Seal	72-65	<b>MV-1599C</b>	Umbrella type; Rubber	
	12	Valve Stem Seal Bulk	72-65	<b>MV-1599</b>	Umbrella type; Carton of 100; Rubber	
	12	Valve Stem Seal Bulk	72-65	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	6	Exh.	72-65	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth	
	6	Exh.	72-65	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth	
	6	Exh.	72-65	<b>245-1687-3</b> Std Only	1.6925" OD, 1.4375" ID, .2480" Depth	
	6	Int.	72-65	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	24	Keeper	72-65	<b>VK-115</b>	1 groove; Square cut key groove	
	24	Keeper	72-65	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	
	24	Keeper, Bulk	72-65	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
	12	Spring Insert	72-65	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100	
	12	Spring Insert	72-65	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100	
	12	Spring Insert	72-65	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500	
	12	Spring Insert	72-65	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100	
	12	Spring Insert	72-65	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500	
	6	Rotocap Assy.	72-65	<b>RC-128SA</b>	Incl. VS-656 spring	
	6	Rotocap	72-65	<b>RC-128S</b>		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	6	Cast Piston	72-70	<b>352AP30</b> * 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.	
	6	Cast Piston	72-70	<b>352NP</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.	
	6	Cast Piston	69	<b>352AP30</b> * 30-40-60	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.	
	6	Cast Piston	69	<b>352NP</b> Std-30-40-60	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.	
	6	Cast Piston	69	<b>1109P</b> Std-20-30-40-60	To late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.	
	6	Cast Piston	68-65	<b>1109P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.	

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\* New Item — Check For Availability

# Ford Car

## 35 3.9L 240 OHV L6, 4" Bore 1972-65 (cont.) VIN Codes "B" 1965-70, "E" 1965-72, "V" 1965-72

BLOCK	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
	6	Cast Piston - Individual	72-70	<b>W352NP</b> Std-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
	6	Cast Piston - Individual	69	<b>W352NP</b> Std-40	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
	6	Cast Piston - Individual	69	<b>W1109P</b> * Std-20-30-40-60	To late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
	6	Cast Piston - Individual	68-65	<b>W1109P</b> * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	72-65	<b>E-229K</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	Premium Set	72-65	<b>E-464KC</b> Std-20-30-40	2-5/64, 1-3/16
	1	Standard Set	72-65	<b>E-229X</b> Std-20-30-40-60	2-5/64, 1-3/16
	6	Premium Single Cylinder Set	72-65	<b>WE-229K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	72-65	<b>WE-229X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	72-67	<b>4916M</b> Std-1-10-20-30-40	3.602" max. brg. flange OD	
1	Main Set	72-67	<b>7153M10</b> 10-20-30	3.602" max. brg. flange OD; .020" O/S length flange brg.	
1	Rod Set	72-65	<b>6-3150CPA10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore	
1	Rod Set	72-65	<b>6-3150CPA</b> Std-1-10-20-30-40-50	6-3150CAA 60 avail. as unplated & resizeable	
1	Rod Set	72-65	<b>6-3150CAA60</b> 60	Unplated & resizeable	
6	Rod Pair	72-65	<b>3150CPA</b> Std-1-2-10-20-30-40-50		
1	Cam Set	72-65	<b>1450M</b> Std Only		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	72-68	<b>260-1006</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	67-65	<b>260-1006</b>	Valve cover gskt. not incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	72-65	<b>381-8014</b>		
1	Steel Block Plug Kit	72-65	<b>381-4013</b>		
KITS	RE-RING KIT			<i>PREMIUM</i>	<i>ECONOMY</i>
	YEARS	DESCRIPTION		<i>KIT NO.</i>	<i>KIT NO.</i>
	72-68	Premium valve stem seals incl.	Re-ring	<b>205-612</b>	<b>205-112</b>
	72-68	Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains	<b>205-612M</b>	<b>205-112M</b>
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains	<b>205-612M</b>	<b>205-112M</b>
67-65	Valve cover gskt. not incl.; Premium valve stem seals incl.	Re-ring	<b>205-612</b>	<b>205-112</b>	

## 36 4.1L 250 OHV L6, 3.68" Bore 1980-69 VIN Codes "C" 1980, "L" 1969-79

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	77-69	<b>222-354</b>	Silent type; 1" wide chain; 56 Links
	1	Crank Sprocket	77-69	<b>223-415</b>	Use w/1" wide chain; 21 Teeth
	1	Cam Sprocket	73	<b>223-414</b>	Maverick; w/M/T; 42 Teeth
	1	Cam Sprocket	72-69	<b>223-414</b>	42 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	80-69	<b>CS-658</b>	Hyd.
	12	Lifter	80-69	<b>HT-2083</b> Std Only	Hyd.; Carton of 122
	12	Lifter, Bulk	80-69	<b>HT-2083B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	Prelube	80-69	<b>55-400</b>	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	80-69	<b>KC-658</b>	Hyd.; Incl. (1) CS-658, (12) HT-2083, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
12	Push Rod	80-77	<b>RP-3202</b>	9.3550" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
2	Rocker Shaft	80-69	<b>RS-619</b>		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	80-69	<b>V-1983</b> Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.	
6	Intake	80-77	<b>V-2073</b> Std Only	Chrome plated stem; 1.7510" Head Dia., .3103" Stem Dia., 4.2600" O.A.L.	

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**4.1L 250 OHV L6, 3.68" Bore 1980-69 36**

VIN Codes "C" 1980, "L" 1969-79 (cont.)

QTY		VALVE (cont.)		YEARS	PART NO.	DESCRIPTION
		6	Intake			
QTY		VALVE GUIDE		YEARS	PART NO.	DESCRIPTION
12		Guide		80-69	VG-5009	Exh. & Int.; .3120" ID, 1.8800" O.A.L.
QTY		VALVE SPRING		YEARS	PART NO.	DESCRIPTION
12		Spring		80-69	VS-624	1.8280" Free Height
QTY		VALVE SEAL		YEARS	PART NO.	DESCRIPTION
12		Valve Stem Seal		80-69	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
12		Valve Stem Seal		80-69	MV-1796A	Umbrella type; Fits Std. to .015" O/S valve stem
12		Valve Stem Seal Bulk		80-69	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12		Valve Stem Seal Bulk		80-69	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY		VALVE SEAT		YEARS	PART NO.	DESCRIPTION
6		Int.		80-77	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6		Int.		80-77	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
6		Exh.		80-69	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
6		Exh.		80-69	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
6		Int.		76-69	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6		Int.		76-69	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY		VALVE, MISC		YEARS	PART NO.	DESCRIPTION
24		Keeper		80-69	VK-144	1 groove; Square cut key groove
24		Keeper		80-69	VK-144R	1 groove; Square cut key groove; Hardened
24		Keeper, Bulk		80-69	VK-144B	1 groove; Square cut key groove; Carton of 1000
12		Spring Insert		80-69	259-102C	.015"; Carton of 100
12		Spring Insert		80-69	259-102B	.030"; Carton of 100
12		Spring Insert		80-69	259-102A	.060"; Carton of 100
12		Spring Insert		80-69	259-102ARS	.060"; Carton of 500
QTY		PISTON		YEARS	PART NO.	DESCRIPTION
6		Cast Piston		80-69	275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.
6		Cast Piston - Individual		80-69	W275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.
QTY		RINGS		YEARS	PART NO.	DESCRIPTION
1		Premium Set		80-69	E-219K Std-20-30-40-60	2-5/64, 1-3/16
1		Standard Set		80-69	E-219X Std-20-30-40-60	2-5/64, 1-3/16
6		Premium Single Cylinder Set		80-69	WE-219K Std-20-30-40-60	2-5/64, 1-3/16
6		Standard Single Cylinder Set		80-69	WE-219X Std-20-30-40-60	2-5/64, 1-3/16
QTY		ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
1		Main Set		80-69	4916M Std-1-10-20-30-40	3.602" max. brg. flange OD
1		Main Set		80-69	7153M10 10-20-30	3.602" max. brg. flange OD; .020" O/S length flange brg.
1		Rod Set		80-69	6-2380CP Std-1-10-20-30-40	
6		Rod Pair		80-69	2380CP Std-1-10-20-30-40	
1		Cam Set		80-69	1439M Std Only	
QTY		GASKETS		YEARS	PART NO.	DESCRIPTION
1		Kit Gasket Set		80-69	260-1003	Premium valve stem seals incl.
QTY		FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION
1		Brass Block Plug Kit		80-69	381-8013	
<b>RE-RING KIT</b>						
YEARS		DESCRIPTION			<b>PREMIUM</b>	<b>ECONOMY</b>
80-69		Premium valve stem seals incl.		Re-ring	<b>205-609</b>	<b>205-109</b>
80-69		Premium valve stem seals incl.; w/3.602" max. brg. flange OD		Re-ring w/Mains	<b>205-609M</b>	<b>205-109M</b>

**4.2L 255 OHV V8, 3.68" Bore 1982-80 37**

VIN Code "D" 1980-82

QTY		TIMING	YEARS	PART NO.	DESCRIPTION
1		3 Piece Set	82-80	KT3-358SA	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1		Timing Set w/Gaskets	82-80	CTS-2000	Incl. silent type chain
1		Timing Chain	82-80	222-358	Silent type; 58 Links
1		Crank Sprocket	82-80	223-431	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1		Cam Sprocket	82-80	223-430	Use w/Silent type chain; 42 Teeth

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## 37 4.2L 255 OHV V8, 3.68" Bore 1982-80

(cont.) VIN Code "D" 1980-82

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-80	CS-668	
16	Lifter	82-80	HT-900 Std Only	Hyd.
16	Lifter, Bulk	82-80	HT-900B Std Only	Hyd.; Carton of 122
1	Prelube	82-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-80	KC-668	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-80	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-80	RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	82-80	RP-3167	6.8760" O.A.L.
16	Push Rod, Bulk	82-80	BRP-3167	Carton of 100; 6.8760" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	82-80	R-879	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy., Bulk	82-80	R-879B	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Bolt	82-80	MR-1847	5/16" X 18 UNC w/Washer
16	Pivot	82-80	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	82-80	V-1961 Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	82-80	V-1961B Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	82-80	VG-5005	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
16	Guide	82-80	VG-5005H	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	82-80	VG-5005T	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-80	VG-5005B	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-80	VG-5005TB	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	82-80	VS-1618R	Exh.; Incl. damper; 1.9940" Free Height
8	Spring	82-80	VS-733	Exh.; 1.9230" Free Height
8	Spring	82-80	VS-661	Int.; Incl. damper; 2.0460" Free Height
8	Spring	82-80	VS-718	Int.; 2.0280" Free Height
8	Spring, Bulk	82-80	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	82-80	VS-718B	Int.; Carton of 250; 2.0280" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	82-80	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	82-80	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	82-80	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	82-80	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	82-80	VK-115	1 groove; Square cut key groove
32	Keeper	82-80	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	82-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	82-80	259-102C	.015"; Carton of 100
16	Spring Insert	82-80	259-102B	.030"; Carton of 100
16	Spring Insert	82-80	259-102A	.060"; Carton of 100
16	Spring Insert	82-80	259-102ARS	.060"; Carton of 500
8	Rotocap	82-80	RC-140	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	82-80	E-413X Std Only	2-5/64, 1-3/16
8	Standard Single Cylinder Set	82-80	WE-413X Std Only	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	82-80	7151M10 10-20-30	.020" O/S length flange brg.
1	Main Set	82-80	4125MA Std-1-10-20-30-40	A-Series aluminum bearings; Incl. contoured design thrust brg.
1	Main Set	82-80	4125M Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	82-80	8-2600A Std-1-2-10-20-30-40-60	A-Series aluminum bearings
1	Rod Set	82-80	8-2600A10X2 10X2-20X2-30X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore
1	Rod Set	82-80	8-2600CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set	82-80	8-2600CP Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set	82-80	8-2600CA60 60	Unplated & resizeable
8	Rod Pair	82-80	2600CP Std-1-2-10-20-30-40	

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4.2L 255 OHV V8, 3.68" Bore 1982-80 **37**  
VIN Code "D" 1980-82 (cont.)

BLOCK		ENGINE BEARINGS				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
8	1	82-80	2600A	Std-1-2-10-20-30-40	A-Series aluminum bearings Babbitt material; Full round design		
	1	82-80	1204M	Std-10			
BLOCK		OIL PUMP				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
1	1	82-80	224-41118		High Pressure High Volume, check pan for clearance; Incl. inter. shaft		
	1	82-80	224-43370				
1	1	82-80	224-41128		Exc. Granada Exc. Granada, Monarch & Versailles Granada, Monarch & Versailles		
	1	82-80	224-61118				
1	1	82-81	224-14118		Exc. Granada Exc. Granada, Monarch & Versailles Granada, Monarch & Versailles		
	1	80	224-14118				
1	1	80	224-11118		Exc. Granada Exc. Granada, Monarch & Versailles Granada, Monarch & Versailles		
	1	80	224-11118				
BLOCK		GASKETS				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
1	1	82	260-1097		Premium valve stem seals incl. From 4/14/81; Int. manifold gskt. incl.; Premium valve stem seals incl.		
	1	81	260-1097				
1	1	81	260-1097		To 4/13/81; Int. manifold gskt. not incl.; Premium valve stem seals incl. Int. manifold gskt. not incl.; Premium valve stem seals incl.		
	1	80	260-1097				
BLOCK		FREEZE PLUGS				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
1	1	82-80	381-8015		Premium valve stem seals incl.		
	1	82-80	381-4010				
KITS		RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
		YEARS	DESCRIPTION				
82			Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring	----	205-185	
	81		From 4/14/81; Int. manifold gskt. incl.; Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring	----	205-185	
81			To 4/13/81; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring	----	205-185	
	80		Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring	----	205-185	
KITS		OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
		YEARS	DESCRIPTION				
82			Incl. A-Series aluminum bearings; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
	81		From 4/14/81; Int. manifold gskt. incl.; Incl. A-Series aluminum bearings; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
81			To 4/13/81; Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
	80		Int. manifold gskts. not incl.; Incl. A-Series aluminum bearings; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
4.2L 255.4 L-HEAD V8 (Mercury), 3.1875" Bore 1953-49 <b>38</b>							
VALVE		TIMING				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
1	1	53-49	221-2727S		221-2702 not sold separately; Incl. (1) 221-2701, (1) 221-2702		
	1	53-49	221-2701				
1	1	53-49	221-2702		22 Teeth Alum.; 44 Teeth		
	1	53-49	221-2702				
VALVE		VALVE				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
16	16	53-52	V-1041	Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8170" O.A.L.		
	16	51-49	V-967	Std Only			
16	16	51-49	V-967	Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8190" O.A.L.		
	16	51-49	V-967	Std Only			
TRAIN		VALVE GUIDE				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
16	16	53-49	VG-428		Use w/MV-1231 seal; .3435" ID, 2.2000" O.A.L.		
	16	53-49	VG-428				
TRAIN		VALVE SPRING				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
16	16	53-52	VS-392		2.2000" Free Height 2.4800" Free Height		
	16	51-49	VS-393				
TRAIN		VALVE SEAL				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
16	16	53-49	MV-1231		O-Ring; Carton of 50; Rubber		
	16	53-49	MV-1231				
TRAIN		VALVE SEAT				DESCRIPTION	
		QTY	YEARS	PART NO.	DESCRIPTION		
8	8	53-49	245-1640-1	Std Only	1.6395" OD, 1.3750" ID, .2480" Depth		
	8	53-49	245-1640-1	Std Only			

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## 38 4.2L 255.4 L-HEAD V8 (Mercury), 3.1875" Bore 1953-49

(cont.)

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Int.	53-49	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	53-49	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	53-49	VK-88	Valve guide retainer
32	Keeper	53-49	VK-115	1 groove; Square cut key groove
32	Keeper	53-49	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	53-49	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	53-49	1014P30 30-40-60	Cast; 2-3/32", 2-3/16" Ring Groove, 1.427 plus .21 crown" CD, .7500" Pin Dia., Crowned Head .210" high w/offset pin and ring below pin; Not factory duplicate
8	Cast Piston - Individual	53-49	W1014P30 30-40-60	Cast; 2-3/32", 2-3/16" Ring Groove, 1.427 plus .21 crown" CD, .7500" Pin Dia., Crowned Head .210" high w/offset pin and ring below pin; Not factory duplicate
8	Pin Bushing	53-49	9024XBS	.820" max. housing bore
8	Pin Bushing	53-49	9024VA	Split type bushing; .8125" max. housing bore
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	53-49	E-247KC30 30-40-60	2-3/32, 2-3/16
1	Standard Set	53-49	E-247X Std-30-40-60-80	2-3/32, 2-3/16
8	Standard Single Cylinder Set	53-49	WE-247X Std-30-40	2-3/32, 2-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Dry Sleeve	53-49	SL-140M Std Only	Flanged, finished bore sleeve; NOTE: Use SL-140M w/3.377" OD when block is not milled between valves and bore; Grind valve reliefs if necessary
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	53-49	646M Std-10-20-30	
1	Rod Set	53-49	8-1505CAA Std-10-20	
8	Rod Pair	53-49	1505CAA Std-10-20-30-40	
1	Cam Set	53-49	1005M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	53-49	224-41108	w/drive gear

## 39 4.2L 256 OHV V8 (Mercury), 3.625" Bore 1954

VIN Code "P" 1954

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	54	RP-3017	8.2580" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	54	RA-1001H	For 1 bank
1	Shaft Assy.	54	RA-1001	For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	54	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	54	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	54	VS-1575	2.1250" Free Height
16	Spring, Bulk	54	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	54	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	54	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	54	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	54	MV-1599	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	54	VK-115	1 groove; Square cut key groove
32	Keeper	54	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	54	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	54	5155X Std Only	2-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	54	SL-17M Std Only	3/32" wall, must be cut to correct length & notched
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	54	884M Std-10-20-30-40-50	
1	Rod Set	54	8-2000CPA Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	54	2000CPA Std-1-10-20-30-40	
1	Cam Set	54	1223M Std Only	w/Cross-drilled No. 3 cam journal



# Ford Car

4.3L 260 OHV V8, 3.7969" Bore 1965-62 40

VIN Code "F" 1962-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	65-62	KT3-356S	Incl. (1) 222-356, (1) 223-326, (1) 223-327
1	Timing Chain	65-62	222-356	58 Links
1	Crank Sprocket	65-62	223-327	21 Teeth
1	Cam Sprocket	65-62	223-326	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	65-62	HT-900 Std Only	Hyd.
16	Lifter, Bulk	65-62	HT-900B Std Only	Hyd.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	65-62	RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	65-62	RP-3167	6.8760" O.A.L.
16	Push Rod, Bulk	65-62	BRP-3167	Carton of 100; 6.8760" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	65-62	R-836	Incl. arm, ball & nut; Flat style rockers
16	Arm Assy., Bulk	65-62	R-836B	Incl. arm, ball & nut; Flat style rockers; Carton of 64
16	Arm	65-62	R-836A	
16	Pivot Ball	65-62	MR-1809	
16	Nut	65-62	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	65-64	V-1710 Std Only	1.4500" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Exhaust	63-62	V-1613 Std Only	1.3880" Head Dia., .3095" Stem Dia., 4.8630" O.A.L.
8	Intake	65-64	V-1711 Std Only	1.6690" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	65-64	VG-5061	.3430" ID, 2.3800" O.A.L.
16	Guide	63-62	VG-5009	.3120" ID, 1.8800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	65-62	VS-661	Incl. damper; 2.0460" Free Height
16	Spring	65-62	VS-1575	2.1250" Free Height
16	Spring, Bulk	65-62	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	65-64	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	65-64	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	63-62	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	65-62	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	65-64	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	65-62	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	63-62	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	65-64	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	65-64	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	65-64	245-1750-1N Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
8	Int.	65-64	245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
8	Exh.	63-62	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
8	Exh.	63-62	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
8	Int.	63-62	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	63-62	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	65-64	VK-115	1 groove; Square cut key groove
32	Keeper	65-64	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	63-62	VK-144	1 groove; Square cut key groove
32	Keeper	63-62	VK-144R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	65-64	VK-115B	1 groove; Square cut key groove; Carton of 1000
32	Keeper, Bulk	63-62	VK-144B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	65-62	259-102C	.015"; Carton of 100
16	Spring Insert	65-62	259-102B	.030"; Carton of 100
16	Spring Insert	65-62	259-102A	.060"; Carton of 100
16	Spring Insert	65-62	259-102ARS	.060"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	65-62	E-175X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Standard Single Cylinder Set	65-62	WE-175X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	65-62	7151M10 10-20-30	.020" O/S length flange brg.
1	Main Set	65-62	4125MA Std-1-10-20-30-40	A-Series aluminum bearings; Incl. contoured design thrust brg.

VALVE TRAIN

VALVE TRAIN

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## 40 4.3L 260 OHV V8, 3.7969" Bore 1965-62

(cont.) VIN Code "F" 1962-65

QTY	ENGINE BEARINGS				DESCRIPTION
	(cont.)	YEARS	PART NO.		
1	Main Set	65-62	4125M	Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	65-62	8-2600A	Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set	65-62	8-2600A10X2	10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	65-62	8-2600CP10X2	10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set	65-62	8-2600CP	Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set	65-62	8-2600CA60	60	Unplated & resizeable
8	Rod Pair	65-62	2600CP	Std-1-2-10-20-30-40	
8	Rod Pair	65-62	2600A	Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set	65-62	1204M	Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.		DESCRIPTION
1	Oil Pump	65-62	224-41118		
1	Oil Pump	65-62	224-43370		High Pressure
1	Oil Pump	65-62	224-41128		High Volume, check pan for clearance; Incl. inter. shaft
1	Inter. Shaft	65-62	224-61118		
1	Screen Assy.	65-62	224-11118		
QTY	GASKETS	YEARS	PART NO.		DESCRIPTION
1	Kit Gasket Set	65-62	260-1125		Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	65-62	260-1082		Premium Set; Header gskts. incl.; Complete set
QTY	FREEZE PLUGS	YEARS	PART NO.		DESCRIPTION
1	Brass Block Plug Kit	65-62	381-8015		
1	Steel Block Plug Kit	65-62	381-4010		

## 41 4.4L 272 OHV V8, 3.625" Bore 1957-55

VIN Codes "B" 1957, "M" 1955, "U" 1955-57

QTY	TIMING	YEARS	PART NO.		DESCRIPTION
1	Timing Chain	57-55	222-354		Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	57-55	223-250		Use w/silent type chain; 21 Teeth
1	Cam Sprocket	57-55	223-249		Use w/silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.		DESCRIPTION
1	Camshaft	57-56	CS-210		14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Prelube	57-56	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.		DESCRIPTION
16	Push Rod	57-56	RP-3022		8.3400" O.A.L.
16	Push Rod	55	RP-3017		8.2580" O.A.L.
16	Push Rod, Bulk	57-56	BRP-3022		Carton of 100; 8.3400" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.		DESCRIPTION
2	Shaft Assy.	57-55	RA-1001H		For 1 bank
1	Shaft Assy.	57-55	RA-1001		For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.		DESCRIPTION
8	Exhaust	57-55	V-1127	Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	57	V-1285	Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
8	Intake	56-55	V-1115	Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.		DESCRIPTION
8	Guide	57-55	VG-5034		Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.		DESCRIPTION
16	Spring	57-55	VS-1575		2.1250" Free Height
16	Spring, Bulk	57-55	VS-1575B		Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.		DESCRIPTION
16	Valve Stem Seal	57-55	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	57-55	MV-1903		Use w/VG-5034 repair guide; Positive type; Rubber
16	Valve Stem Seal	57-55	MV-1599C		Umbrella type; Rubber
16	Valve Stem Seal Bulk	57-55	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	57-55	MV-1599		Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.		DESCRIPTION
8	Exh.	57	245-1562-2N	Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	57	245-1562-2	Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	57	245-2000-1	Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	56-55	245-1562-2N	Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	56-55	245-1562-2	Std Only	1.5675" OD, 1.3125" ID, .2480" Depth

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<b>4.4L 272 OHV V8, 3.625" Bore 1957-55 41</b>				
VIN Codes "B" 1957, "M" 1955, "U" 1955-57 (cont.)				
QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Int.	56-55	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
32	<b>VALVE, MISC</b> Keeper	57-55	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	57-55	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	57-55	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	57-55	<b>259-102C</b>	.015"; Carton of 100
16	Spring Insert	57-55	<b>259-102B</b>	.030"; Carton of 100
16	Spring Insert	57-55	<b>259-102A</b>	.060"; Carton of 100
16	Spring Insert	57-55	<b>259-102ARS</b>	.060"; Carton of 500
8	<b>PISTON</b> Pin Bushing	57-55	<b>1834V20</b>	1.306" length; .020" extra bore stock
8	Pin Bushing	57-55	<b>1834V</b>	1.306" max. length
1	<b>RINGS</b> Standard Set	57-55	<b>5155X</b> Std Only	2-3/32, 1-3/16
1	<b>ENGINE BEARINGS</b> Main Set	57-55	<b>884M</b> Std-10-20-30-40-50	
1	Rod Set	57-55	<b>8-2000CPA</b> Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	57-55	<b>2000CPA</b> Std-1-10-20-30-40	
1	Cam Set	57-55	<b>1223M</b> Std Only	w/Cross-drilled No. 3 cam journal
1	Cam Set	57-55	<b>1160M</b> Std Only	w/Grooved No. 3 cam journal
1	<b>OIL PUMP</b> Oil Pump	57-55	<b>224-41123</b>	
1	Pump Repair Kit	57-55	<b>224-51297</b>	Rotor type
1	Inter. Shaft	57-55	<b>224-61123</b>	
<b>4.7L 289 OHV V8, 4" Bore 1968-63 42</b>				
VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.)				
1	<b>TIMING</b> 3 Piece Set	68-66	<b>KT3-358S</b>	w/13/32" wide timing teeth; Exc. VIN Code "K"; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	65	<b>KT3-358S</b>	From change L-7; w/13/32" wide timing teeth; Exc. VIN Code "K"; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	65	<b>KT3-356S</b>	To change L-7; w/17/32" wide timing teeth; Exc. VIN Code "K"; Incl. (1) 222-356, (1) 223-326, (1) 223-327
1	3 Piece Set	64-63	<b>KT3-356S</b>	w/17/32" wide timing teeth; Exc. VIN Code "K"; Incl. (1) 222-356, (1) 223-326, (1) 223-327
1	Timing Chain	68-66	<b>222-358</b>	Silent type; 58 Links
1	Timing Chain	65	<b>222-358</b>	From change L-7; Silent type; 58 Links
1	Timing Chain	65	<b>222-356</b>	To change L-7; 58 Links
1	Timing Chain	64-63	<b>222-356</b>	58 Links
1	Crank Sprocket	68-66	<b>223-431</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	65	<b>223-431</b>	From change L-7; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	65	<b>223-327</b>	To change L-7; 21 Teeth
1	Crank Sprocket	64-63	<b>223-431</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	64-63	<b>223-327</b>	21 Teeth
1	Cam Sprocket	68-66	<b>223-406</b>	42 Teeth
1	Cam Sprocket	65	<b>223-406</b>	From change L-7; 42 Teeth
1	Cam Sprocket	65	<b>223-326</b>	To change L-7; 42 Teeth
1	Cam Sprocket	64-63	<b>223-326</b>	42 Teeth
1	<b>CAMSHAFT/LIFTER</b> Camshaft	68-63	<b>CS-560</b>	Hyd.
16	Lifter	68-63	<b>HT-900</b> Std Only	Exc. VIN Code "K"; Hyd.
16	Lifter	68-63	<b>HT-900R</b> Std Only	Exc. VIN Code "K"; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker Assy.
16	Lifter	67-63	<b>AT-2000</b> Std Only	VIN Code "K"; Mech.
16	Lifter, Bulk	68-63	<b>HT-900B</b> Std Only	Exc. VIN Code "K"; Hyd.; Carton of 122
16	Lifter, Bulk	68-63	<b>HT-900RB</b> Std Only	Exc. VIN Code "K"; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker Assy.; Carton of 122
16	Lifter, Bulk	67-63	<b>AT-2000B</b> Std Only	VIN Code "K"; Mech.; Carton of 122
1	Prelube	68-63	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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**42 4.7L 289 OHV V8, 4" Bore 1968-63**  
 (cont.) VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.)

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	68-63	<b>KC-560</b>	Exc. VIN Code "K"; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	68-66	<b>KCT-560A</b>	w/13/32" wide timing teeth; Exc. VIN Code "K"; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	65	<b>KCT-560A</b>	From change L-7; w/13/32" wide timing teeth; Exc. VIN Code "K"; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	65	<b>KCT-560</b>	To change L-7; w/17/32" wide timing teeth; Exc. VIN Code "K"; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) KT3-356S, (1) 55-403B
1	Cam/Lifter/Timing Kit	64-63	<b>KCT-560</b>	w/17/32" wide timing teeth; Exc. VIN Code "K"; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) KT3-356S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	68-63	<b>RP-3222R</b>	Chrome-Moly; 6.8040" O.A.L.
16	Push Rod	68-63	<b>RP-3165</b>	6.8010" O.A.L.
16	Push Rod, Bulk	68-63	<b>BRP-3165</b>	Carton of 100; 6.8010" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	68-63	<b>R-847</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	68-63	<b>R-836</b>	Incl. arm, ball & nut; Flat style rockers
16	Arm Assy., Bulk	68-63	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	68-63	<b>R-836B</b>	Incl. arm, ball & nut; Flat style rockers; Carton of 64
16	Arm	68-63	<b>R-836A</b>	
16	Pivot Ball	68-63	<b>MR-1809</b>	
16	Nut	68-63	<b>MR-1823</b>	5/16" x 24
16	Stud	68-63	<b>MR-1902</b>	Exc. VIN Code "K"; .006" O/S, 3/8" x 24 x 2.600"
16	Stud	68-63	<b>MR-1901</b>	Exc. VIN Code "K"; 3/8" x 24 x 2.600"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68	<b>V-1784</b> Std-15	1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust	67	<b>V-1784</b> Std-15	Exc. VIN Code "K"; 1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust	67	<b>V-1710</b> Std Only	VIN Code "K"; 1.4500" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Exhaust	66	<b>V-1784</b> Std-15	From 10/4/65; Exc. VIN Code "K"; 1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust	66	<b>V-1710</b> Std Only	To 10/4/65; Exc. VIN Code "K"; 1.4500" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Exhaust	66	<b>V-1710</b> Std Only	VIN Code "K"; 1.4500" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Exhaust	65-63	<b>V-1710</b> Std Only	1.4500" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Exhaust, Bulk	68	<b>V-1784B15</b> 15	Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	67	<b>V-1784B15</b> 15	Exc. VIN Code "K"; Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	66	<b>V-1784B15</b> 15	From 10/4/65; Exc. VIN Code "K"; Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Intake	68	<b>V-1785</b> Std-15	1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	67	<b>V-1785</b> Std-15	Exc. VIN Code "K"; 1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	67	<b>V-1783</b> Std Only	VIN Code "K"; 1.7800" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	66	<b>V-1785</b> Std-15	From 10/4/65; Exc. VIN Code "K"; 1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	66	<b>V-1783</b> Std Only	To 10/4/65; 1.7800" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	65	<b>V-1783</b> Std Only	1.7800" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	64-63	<b>V-1711</b> Std Only	1.6690" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake, Bulk	68	<b>V-1785B</b> Std-15	Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
8	Intake, Bulk	67	<b>V-1785B</b> Std-15	Exc. VIN Code "K"; Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
8	Intake, Bulk	66	<b>V-1785B</b> Std-15	From 10/4/65; Exc. VIN Code "K"; Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	68-63	<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	68-63	<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	68	<b>VS-672</b>	1.9700" Free Height
16	Spring	67	<b>VS-672</b>	From change L-14; Exc. VIN Code "K"; 1.9700" Free Height

VALVE TRAIN

VALVE TRAIN

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# Ford Car

4.7L 289 OHV V8, 4" Bore 1968-63 **42**

VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.) (cont.)

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring	67	VS-660	To change L-14; Exc. VIN Code "K"; 1.8600" Free Height
16	Spring	67	VS-661	VIN Code "K"; Incl. damper; 2.0460" Free Height
16	Spring	66	VS-660	From 10/4/65; Exc. VIN Code "K"; 1.8600" Free Height
16	Spring	66	VS-1575	To 10/4/65; Exc. VIN Code "K"; 2.1250" Free Height
16	Spring	66	VS-661	VIN Code "K"; Incl. damper; 2.0460" Free Height
16	Spring	65	VS-1575	Exc. VIN Code "K"; 2.1250" Free Height
16	Spring	65-63	VS-661	VIN Code "K"; Incl. damper; 2.0460" Free Height
16	Spring	64-63	VS-1575	2.1250" Free Height
16	Spring, Bulk	66	VS-1575B	To 10/4/65; Exc. VIN Code "K"; Carton of 250; 2.1250" Free Height
16	Spring, Bulk	65	VS-1575B	Exc. VIN Code "K"; Carton of 250; 2.1250" Free Height
16	Spring, Bulk	64-63	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	68-63	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	68-63	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	68-67	MV-1796C	Exc. VIN Code "K"; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	66-63	MV-1765	Exc. VIN Code "K"; Umbrella type; Carton of 100; Rubber
16	Valve Stem Seal	66-63	MV-1598C	VIN Code "K"; Umbrella type; Rubber
16	Valve Stem Seal Bulk	68-67	MV-1796	Exc. VIN Code "K"; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	68-63	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	66-63	MV-1598	VIN Code "K"; Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	68-65	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	68-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	68-63	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	68-63	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	64-63	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	68-63	VK-115	1 groove; Square cut key groove
32	Keeper	68-63	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	68-63	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	68-63	259-102C	.015"; Carton of 100
16	Spring Insert	68-63	259-102B	.030"; Carton of 100
16	Spring Insert	68-63	259-102A	.060"; Carton of 100
16	Spring Insert	68-63	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	68-66	273AP Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston	68-64	H273CP Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	68-64	272AP Std-20-30-40-60-80	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston	65-64	273AP Std-20-30-40-60	VIN Codes "A" & "D"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	68-66	W273AP Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	68-64	WH273CP Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	68-64	W272AP Std-20-30-40-60-80	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	65-64	W273AP Std-20-30-40-60	VIN Codes "A" & "D"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	68-66	8K273AP20 20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	68-64	8KH273CP30 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

# Ford Car

**42 4.7L 289 OHV V8, 4" Bore 1968-63**  
 (cont.) VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	68-64	<b>8K272AP20</b> 20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	65-64	<b>8K273AP20</b> 20-30-40-60	VIN Codes "A" & "D"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Econ. Rings	68-66	<b>8X273AP20</b> 20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Econ. Rings	68-64	<b>8X272AP20</b> 20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	65-64	<b>8X273AP20</b> 20-30-40-60	VIN Codes "A" & "D"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Powerforged	68-66	<b>L-2482F</b> Std-20-30-40-60	VIN Code "A"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68-63	<b>L-2305F</b> Std-20-30-40-60	VIN Code "C"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	65-64	<b>L-2482F</b> Std-20-30-40-60	VIN Codes "A" & "D"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-66	<b>WL-2482F</b> Std-20-30-40-60	VIN Code "A"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-63	<b>WL-2305F</b> Std-30-40	VIN Code "C"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	65-64	<b>WL-2482F</b> Std-20-30-40-60	VIN Codes "A" & "D"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	68-66	<b>8KL2482F30</b> 30-40-60	VIN Code "A"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	65-64	<b>8KL2482F30</b> 30-40-60	VIN Codes "A" & "D"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	68-63	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	68-63	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	68-63	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	68-63	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	68-63	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	68-63	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	68-63	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	68-63	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	68-63	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-63	<b>7151M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	68-63	<b>4125MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.
1	Main Set	68-63	<b>4125M</b> Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	68-63	<b>8-2600A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set	68-63	<b>8-2600A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	68-63	<b>8-2600CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set	68-63	<b>8-2600CP</b> Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set	68-63	<b>8-2600CA60</b> 60	Unplated & resizeable
8	Rod Pair	68-63	<b>2600CP</b> Std-1-2-10-20-30-40	
8	Rod Pair	68-63	<b>2600A</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set	68-63	<b>1204M</b> Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	68-63	<b>224-41118</b>	
1	Oil Pump	68-63	<b>224-43370</b>	High Pressure

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4.7L 289 OHV V8, 4" Bore 1968-63 **42**

VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.) (cont.)

BLOCK	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	68-63	224-41128	High Volume, check pan for clearance; Incl. inter. shaft		
	1	Inter. Shaft	68-63	224-61118			
	1	Screen Assy.	68-63	224-11118			
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	68-63	260-1125	Exc. VIN Code "K"; Premium set; Premium valve stem seals incl.		
	1	Kit Gasket Set	68-63	260-1082	Premium Set; Header gskts. incl.; Complete set		
	1	Kit Gasket Set	68-63	260-1125	VIN Code "K"; Valve stem seals & int. manifold gskts. not incl.		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	68-63	381-8015			
	1	Steel Block Plug Kit	68-63	381-4010			
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	68-63	Exc. VIN Code "K"; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>		Re-ring		205-653	205-153
	68-63	Exc. VIN Code "K"; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.		Re-ring w/Mains		205-653M	205-153M
	68-63	VIN Code "K"; Valve stem seals & int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b>		Re-ring		205-653	205-153
	68-63	VIN Code "K"; Valve stem seals & int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.		Re-ring w/Mains		205-653M	205-153M
	OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	68-66	Exc. VIN Code "K"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain		Master w/o Pistons		MK-653D	MK-153D
	68-66	VIN Code "C"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain		Mster w/Frg. Pstn. Prm. Rings		MKF-653D	----
	68-66	VIN Code "C"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain		Master w/o Rods & Mains		505-653D	505-153D
	68-66	VIN Code "C"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain		Master		MKP-653D	MKP-153D
	68-66	VIN Code "A"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain		Master w/o Rods & Mains		505-653L	505-153L
	68-66	VIN Code "A"; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain		Master		MKP-653L	MKP-153L
	65	VIN Code "C"; To change L-7; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		505-653A	505-153A
	65	VIN Code "C"; To change L-7; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.		Master		MKP-653A	MKP-153A
	65	Exc. VIN Code "K"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain		Master w/o Pistons		MK-653D	MK-153D
	65	VIN Code "C"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain		Mster w/Frg. Pstn. Prm. Rings		MKF-653D	----
65	VIN Code "C"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain		Master w/o Rods & Mains		505-653D	505-153D	

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## 42 4.7L 289 OHV V8, 4" Bore 1968-63 (cont.) VIN Codes "A" 1964-68, "C" 1963-68, "D" 1964-65, "K" 1963-67 (Hi-Perf.)

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
65	VIN Code "C"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653D	MKP-153D
65	Exc. VIN Code "K"; To change L-7; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Master w/o Pistons	MK-653J	MK-153J
65	VIN Codes "A" & "D"; To change L-7; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-653J	505-153J
65	VIN Codes "A" & "D"; To change L-7; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Master	MKP-653J	MKP-153J
65	VIN Codes "A" & "D"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653L	505-153L
65	VIN Codes "A" & "D"; From change L-7; w/13/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653L	MKP-153L
64	VIN Code "C"; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-653A	505-153A
64	VIN Code "C"; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Master	MKP-653A	MKP-153A
64	VIN Codes "A" & "D"; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-653J	505-153J
64	VIN Codes "A" & "D"; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Master	MKP-653J	MKP-153J
64-63	Exc. VIN Code "K"; w/17/32" wide timing teeth; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Master w/o Pistons	MK-653J	MK-153J

## 43 4.8L 292 OHV V8, 3.75" Bore 1962-55 VIN Codes "C" 1957-61, "M" 1956, "P" 1955-57, "W" 1960-62

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	62-55	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	62-55	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	62-55	223-249	Use w/silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	62-55	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Prelube	62-55	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	62-56	RP-3022	8.3400" O.A.L.
16	Push Rod	55	RP-3017	8.2580" O.A.L.
16	Push Rod, Bulk	62-56	BRP-3022	Carton of 100; 8.3400" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	62-55	RA-1001H	For 1 bank
1	Shaft Assy.	62-55	RA-1001	For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	62-55	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	62-60	V-1128 Std Only	1.6470" Head Dia., .3420" Stem Dia., 5.0900" O.A.L.
8	Intake	59-57	V-1285 Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
8	Intake	56-55	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	62-55	VG-5061	Int.; .3430" ID, 2.3800" O.A.L.

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**4.8L 292 OHV V8, 3.75" Bore 1962-55 43**

VIN Codes "C" 1957-61, "M" 1956, "P" 1955-57, "W" 1960-62 (cont.)

<b>4.8L 292 OHV V8, 3.75" Bore 1962-55 43</b>				
VIN Codes "C" 1957-61, "M" 1956, "P" 1955-57, "W" 1960-62 (cont.)				
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	62-55	<b>VS-1575</b>	2.1250" Free Height
16	Spring, Bulk	62-55	<b>VS-1575B</b>	Carton of 250; 2.1250" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	62-55	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	62-55	<b>MV-1903</b>	Use w/VG-5061 repair guide; Positive type; Rubber
16	Valve Stem Seal	62-55	<b>MV-1599C</b>	Umbrella type; Rubber
16	Valve Stem Seal Bulk	62-55	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	62-55	<b>MV-1599</b>	Umbrella type; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Int.	62-60	<b>245-1750-3N</b> Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth
8	Int.	62-60	<b>245-1750-3</b> Std Only	1.7555" OD, 1.4375" ID, .2160" Depth
8	Exh.	62-55	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	62-55	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	59-57	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	56-55	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	62-55	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	62-55	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	62-55	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	62-55	<b>259-102C</b>	.015"; Carton of 100
16	Spring Insert	62-55	<b>259-102B</b>	.030"; Carton of 100
16	Spring Insert	62-55	<b>259-102A</b>	.060"; Carton of 100
16	Spring Insert	62-55	<b>259-102ARS</b>	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	62-55	<b>1022P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 8.6:1 C.R.
8	Cast Piston - Individual	62-55	<b>W1022P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 8.6:1 C.R.
8	Pin Bushing	62-55	<b>1834V20</b>	1.306" length; .020" extra bore stock
8	Pin Bushing	62-55	<b>1834V</b>	1.306" max. length
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	62-55	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	62-55	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	62-55	<b>WE-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	62-55	<b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Repair Sleeve	62-55	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	62-55	<b>884M</b> Std-10-20-30-40-50	
1	Rod Set	62-55	<b>8-2000CPA</b> Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	62-55	<b>2000CPA</b> Std-1-10-20-30-40	
1	Cam Set	62-55	<b>1223M</b> Std Only	w/Cross-drilled No. 3 cam journal
1	Cam Set	62-55	<b>1160M</b> Std Only	w/Grooved No. 3 cam journal
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	62-55	<b>224-41123</b>	
1	Pump Repair Kit	62-56	<b>224-51297</b>	Rotor type
1	Inter. Shaft	62-55	<b>224-61123</b>	

**5.0L 302 OHV V8, 4" Bore 1990-68 44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	90	<b>KT3-370SA1</b>	Incl. silent type chain; Incl. (1) 222-370, (1) 223-818, (1) 223-819
1	3 Piece Set	90-89	<b>KT3-163SA1</b>	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	88-87	<b>KT3-358SA</b>	Exc. VIN Code "E"; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	88-87	<b>KT3-163SA</b>	Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531
1	3 Piece Set	88-87	<b>KT3-163SA1</b>	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	86-85	<b>KT3-358SA</b>	Exc. VIN Code "E"; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	86-85	<b>KT3-163SA</b>	Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531

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(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	86-85	KT3-163SA1	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	84-83	KT3-163SA	Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531
1	3 Piece Set	84-83	KT3-163SA1	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	84-82	KT3-358SA	VIN Code "F"; w/2 Bbl. Carb.; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	81-73	KT3-358SA	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	72	KT3-358SA	From 5/2/72; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	72	KT3-358S	To 5/1/72; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	71-68	KT3-358S	Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	Timing Set w/Gaskets	90-89	CTS-2002	Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	88-86	CTS-2000	Exc. VIN Code "E"; Oil pan gskt. not incl.; Incl. silent type chain
1	Timing Set w/Gaskets	88-86	CTS-2002	VIN Code "E"; Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	85	CTS-2000	Exc. VIN Code "E"; Incl. silent type chain
1	Timing Set w/Gaskets	85	CTS-2002	VIN Code "E"; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	84-83	CTS-2002	VIN Code "M"; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	84-82	CTS-2000	VIN Code "F"; w/2 Bbl. Carb.; Incl. silent type chain
1	Timing Set w/Gaskets	81-79	CTS-2000	Incl. silent type chain
1	Timing Set w/Gaskets	78-73	CTS-2001	Incl. silent type chain
1	Timing Chain	90	222-370	Silent type; 58 Links
1	Timing Chain	90-89	222-163	Double rlr.; 58 Links
1	Timing Chain	88-82	222-163	VIN Code "E"; Double rlr.; 58 Links
1	Timing Chain	87-85	222-358	Exc. VIN Code "E"; Silent type; 58 Links
1	Timing Chain	84-82	222-358	VIN Code "F"; w/2 Bbl. Carb.; Silent type; 58 Links
1	Timing Chain	81-68	222-358	Silent type; 58 Links
1	Crank Sprocket	90	223-819	21 Teeth; Silent type; 21 Teeth
1	Crank Sprocket	90-89	223-531	Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	88	223-531	From 9/1/88; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	88	223-431	To 8/31/88; Exc. VIN Code "E"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	88	223-531	To 8/31/88; VIN Code "E"; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	87-85	223-431	Exc. VIN Code "E"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	87-85	223-531	VIN Code "E"; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	84-83	223-531	VIN Code "M"; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	84-82	223-431	VIN Code "F"; w/2 Bbl. Carb.; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	81-68	223-431	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket	90	223-612	Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	90	223-818	42 Teeth; Silent type; 42 Teeth
1	Cam Sprocket	89	223-612	w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	88	223-612	From 9/1/88; w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	88	223-430	To 8/31/88; Exc. VIN Code "E"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	87-86	223-612	w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	87-85	223-430	Exc. VIN Code "E"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	85	223-612	VIN Code "E"; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	84	223-468	To 3/21/84; VIN Code "M"; Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth

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**5.0L 302 OHV V8, 4" Bore 1990-68 44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam Sprocket	84	223-612	VIN Code "M"; From 3/22/84; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	84-82	223-430	VIN Code "F"; w/2 Bbl. Carb.; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	83	223-468	VIN Code "M"; Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth
1	Cam Sprocket	81-73	223-430	Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	223-430	From 5/2/72; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	223-406	To 5/1/72; 42 Teeth
1	Cam Sprocket	71-68	223-406	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-87	CS-760	VIN Code "E"
1	Camshaft	90-87	CS-759	VIN Code "F"
1	Camshaft	86	CS-760	VIN Code "E"
1	Camshaft	86	CS-759	VIN Code "F"
1	Camshaft	85	CS-760	Capri & Mustang; VIN Code "M"; w/4 Bbl. Carb.
1	Camshaft	85	CS-759	VIN Code "F"
1	Camshaft	85	CS-761	VIN Code "M"; w/MFI
1	Camshaft	84	CS-761	VIN Code "M"
1	Camshaft	84-80	CS-668	VIN Code "F"; w/2 Bbl. Carb.
1	Camshaft	83	CS-761	VIN Code "M"
1	Camshaft	79-77	CS-668	
1	Camshaft	76	CS-668	
1	Camshaft	76-75	CS-560	Canada; Hyd.
1	Camshaft	75	CS-668	
1	Camshaft	75	CS-560	To 5/19/75; U.S.; Hyd.
1	Camshaft	74-73	CS-560	Hyd.
1	Camshaft	72	CS-560	Exc. Calif. w/A/T; Hyd.
1	Camshaft	71-69	CS-560	w/2 Bbl. Carb.; Hyd.
1	Camshaft	68	CS-560	Hyd.
1	Performance Cam	80-68	CS-1158R	302 firing order; Pro-1500 Perf. Cam; Hyd.; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	80-68	CS-1581R	351W firing order; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	80-68	CS-1084R	351W firing order; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-68	CS-1231R	351W firing order; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4720" Int., .4960" Exh.; Lobe Separation 112 Degrees
16	Lifter	90-86	HT-2205 Std Only	Hyd. rlr.
16	Lifter	85	HT-900 Std Only	Hyd.
16	Lifter	85	HT-2205 Std Only	Hyd. rlr.
16	Lifter	85	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter	84-72	HT-900 Std Only	Hyd.
16	Lifter	84-72	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter	71-69	HT-900 Std Only	w/2 Bbl. Carb.; Hyd.
16	Lifter	71-69	HT-900R Std Only	w/2 Bbl. Carb.; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter	71-69	AT-2000 Std Only	w/4 Bbl. Carb.; Mech.
16	Lifter	68	HT-900 Std Only	Hyd.
16	Lifter	68	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	90-86	HT-2205B Std Only	Hyd. rlr.; Carton of 122
16	Lifter, Bulk	85	HT-2205B Std Only	Hyd. rlr.; Carton of 122
16	Lifter, Bulk	85	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	85	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
16	Lifter, Bulk	84-72	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	84-72	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
16	Lifter, Bulk	71-69	HT-900B Std Only	w/2 Bbl. Carb.; Hyd.; Carton of 122
16	Lifter, Bulk	71-69	HT-900RB Std Only	w/2 Bbl. Carb.; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
16	Lifter, Bulk	71-69	AT-2000B Std Only	w/4 Bbl. Carb.; Mech.; Carton of 122
16	Lifter, Bulk	68	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	68	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	90-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

VALVE TRAIN

VALVE TRAIN

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## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-87	<b>KC-760</b>	VIN Code "E"; Hyd. rlr.; Incl. (1) CS-760, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	90-87	<b>KC-759</b>	VIN Code "F"; Hyd. rlr.; Incl. (1) CS-759, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	86	<b>KC-760</b>	VIN Code "E"; Hyd. rlr.; Incl. (1) CS-760, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	86	<b>KC-759</b>	VIN Code "F"; Hyd. rlr.; Incl. (1) CS-759, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-760</b>	Capri & Mustang; VIN Code "M"; w/4 Bbl. Carb.; Hyd. rlr.; Incl. (1) CS-760, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-759</b>	VIN Code "F"; Hyd. rlr.; Incl. (1) CS-759, (16) HT-2205, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-761</b>	VIN Code "M"; w/MFI; Hyd.; Incl. (1) CS-761, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	84	<b>KC-668</b>	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	84	<b>KC-761</b>	VIN Code "M"; Hyd.; Incl. (1) CS-761, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	83	<b>KC-761</b>	VIN Code "M"; Hyd.; Incl. (1) CS-761, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	83-82	<b>KC-668</b>	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	81-80	<b>KC-668</b>	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	80-72	<b>KC-1008R +</b>	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B; When depleted use KC-1158R
1	Cam/Lifter Kit	80-72	<b>KC-1158R</b>	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	80-72	<b>KC-1084R</b>	351W firing order; Hyd.; Incl. Pro-2000 Perf. Cam; Duration at .050: 204 Int., 224 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1084R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	80-72	<b>KC-1231R</b>	351W firing order; Hyd.; Incl. Pro-3000 Perf. Cam; Duration at .050; 214 Int.; 224 Exh.; Valve lift .472" Int., .496" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1231R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	79-77	<b>KC-668</b>	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	76	<b>KC-668</b>	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	76-75	<b>KC-560</b>	Canada; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	75	<b>KC-668</b>	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	75	<b>KC-560</b>	To 5/19/75; U.S.; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	74-73	<b>KC-560</b>	Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	72	<b>KC-560</b>	Exc. Calif. w/A/T; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-560</b>	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-1008R +</b>	w/2 Bbl. Carb.; 302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B; When depleted use KC-1158R
1	Cam/Lifter Kit	71-69	<b>KC-1158R</b>	w/2 Bbl. Carb.; 302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-1084R</b>	w/2 Bbl. Carb.; 351W firing order; Hyd.; Incl. Pro-2000 Perf. Cam; Duration at .050: 204 Int., 224 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1084R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-1231R</b>	w/2 Bbl. Carb.; 351W firing order; Hyd.; Incl. Pro-3000 Perf. Cam; Duration at .050; 214 Int.; 224 Exh.; Valve lift .472" Int., .496" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1231R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	68	<b>KC-560</b>	Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	68	<b>KC-1008R +</b>	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B; When depleted use KC-1158R

VALVE TRAIN

VALVE TRAIN

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# Ford Car

**5.0L 302 OHV V8, 4" Bore 1990-68 44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	68	KC-1158R	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	68	KC-1084R	351W firing order; Hyd.; Incl. Pro-2000 Perf. Cam; Duration at .050: 204 Int., 224 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1084R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	68	KC-1231R	351W firing order; Hyd.; Incl. Pro-3000 Perf. Cam; Duration at .050; 214 Int.; 224 Exh.; Valve lift .472" Int., .496" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1231R, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-89	KCT-760	VIN Code "E"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-760, (16) HT-2205, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	88-86	KCT-760	VIN Code "E"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-760, (16) HT-2205, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-760	Capri & Mustang; VIN Code "M"; w/4 Bbl. Carb.; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-760, (16) HT-2205, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-761	VIN Code "M"; w/MFI; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-761, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	KCT-668	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	KCT-761	VIN Code "M"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-761, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-83	KCT-668A	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-668, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	83	KCT-761	VIN Code "M"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-761, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-82	KCT-668	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-80	KCT-668	VIN Code "F"; w/2 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-77	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-560C	Canada; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	75	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	75	KCT-560C	To 5/19/75; U.S.; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-73	KCT-560C	Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-560C	From 5/2/72; Exc. Calif. w/A/T; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-560A	To 5/1/72; Exc. Calif. w/A/T; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-69	KCT-560A	w/2 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68	KCT-560A	Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
16	PUSH ROD	90-86	RP-3241	Replaces E7AZ6565A, can be installed either side up; 6.2500" O.A.L.
16	Push Rod	85	RP-3167	w/o rlr. cam; 6.8760" O.A.L.
16	Push Rod	85	RP-3241	w/rlr. lifters; Replaces E7AZ6565A, can be installed either side up; 6.2500" O.A.L.
16	Push Rod	84-71	RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	84-71	RP-3167	6.8760" O.A.L.
16	Push Rod	70	RP-3223R	w/2 Bbl. Carb.; Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	70	RP-3167	w/2 Bbl. Carb.; 6.8760" O.A.L.
16	Push Rod	70-69	RP-3224R	w/4 Bbl. Carb.; Chrome-Moly; 7.6050" O.A.L.
16	Push Rod	70-69	RP-3187	w/4 Bbl. Carb.; 7.6010" O.A.L.
16	Push Rod	69-68	RP-3222R	w/2 Bbl. Carb.; Chrome-Moly; 6.8040" O.A.L.
16	Push Rod	69-68	RP-3165	w/2 Bbl. Carb.; 6.8010" O.A.L.

VALVE TRAIN

VALVE TRAIN

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# Ford Car

## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod, Bulk	90-86	<b>BRP-3241</b>	Replaces E7AZ6565A, can be installed either side up; Carton of 100; 6.2500" O.A.L.
16	Push Rod, Bulk	85	<b>BRP-3167</b>	w/o rlr. cam; Carton of 100; 6.8760" O.A.L.
16	Push Rod, Bulk	85	<b>BRP-3241</b>	w/rlr. lifters; Replaces E7AZ6565A, can be installed either side up; Carton of 100; 6.2500" O.A.L.
16	Push Rod, Bulk	84-71	<b>BRP-3167</b>	Carton of 100; 6.8760" O.A.L.
16	Push Rod, Bulk	70	<b>BRP-3167</b>	w/2 Bbl. Carb.; Carton of 100; 6.8760" O.A.L.
16	Push Rod, Bulk	69-68	<b>BRP-3165</b>	w/2 Bbl. Carb.; Carton of 100; 6.8010" O.A.L.
8	Push Rod Guide Plate	78-68	<b>MR-1897</b>	Speed-Pro flat guide plate for 5/16" dia. push rods; Requires screw-in studs
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-80	<b>R-879</b>	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	79-78	<b>R-879</b>	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	79-78	<b>R-847</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	77-72	<b>R-847</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	71-68	<b>R-847</b>	w/2 Bbl. Carb.; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	71-68	<b>R-855</b>	w/4 Bbl. Carb.; Incl. arm & pivot
16	Arm Assy., Bulk	90-80	<b>R-879B</b>	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	79-78	<b>R-879B</b>	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	79-78	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	77-72	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	71-68	<b>R-847B</b>	w/2 Bbl. Carb.; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	71-68	<b>R-855B</b>	w/4 Bbl. Carb.; Incl. arm & pivot; Carton of 64
16	Arm	90-80	<b>R-1091R</b>	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Arm	79-78	<b>R-1091R</b>	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Arm	71-68	<b>R-855A</b>	w/4 Bbl. Carb.
16	Pivot Ball	79-68	<b>MR-1809</b>	Use w/R-847
16	Nut	90-68	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Nut	90-68	<b>MR-1823</b>	5/16" x 24
16	Bolt	90-78	<b>MR-1847</b>	5/16" X 18 UNC w/Washer
16	Pivot	90-78	<b>MR-1811</b>	
16	Pivot	71-68	<b>MR-1811</b>	w/4 Bbl. Carb.
16	Stud	78-71	<b>MR-1902</b>	.006" O/S, 3/8" x 24 x 2.600"
16	Stud	78-71	<b>MR-1901</b>	3/8" x 24 x 2.600"
16	Stud	70	<b>MR-1902</b>	w/2 Bbl. Carb.; .006" O/S, 3/8" x 24 x 2.600"
16	Stud	70	<b>MR-1901</b>	w/2 Bbl. Carb.; 3/8" x 24 x 2.600"
16	Stud	70	<b>MR-1910RS</b>	w/4 Bbl. Carb.; 7/16" thread, 1.955" length, .710" depth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-88	<b>V-1961</b> Std-3-15	Mark VII & Mustang; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	90-88	<b>V-2429</b> Std Only	VIN Code "F"; Chrome plated stem; 1.4570" Head Dia., .3414" Stem Dia., 4.9420" O.A.L.
8	Exhaust	87	<b>V-2429</b> Std Only	Exc. Mustang; Chrome plated stem; 1.4570" Head Dia., .3414" Stem Dia., 4.9420" O.A.L.
8	Exhaust	87	<b>V-1961</b> Std-3-15	Mustang; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	86	<b>V-2429</b> Std Only	Chrome plated stem; 1.4570" Head Dia., .3414" Stem Dia., 4.9420" O.A.L.
8	Exhaust	85-72	<b>V-1961</b> Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	71-70	<b>V-1961</b> Std-3-15	w/2 Bbl. Carb.; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	69	<b>V-1961</b> Std-3-15	From change L-4; w/2 Bbl. Carb.; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	69	<b>V-1784</b> Std-15	To change L-4; w/2 Bbl. Carb.; 1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust	68	<b>V-1784</b> Std-15	1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	90-88	<b>V-1961B</b> Std-15	Mark VII & Mustang; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & (cont.) Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust, Bulk	87	<b>V-1961B</b> Std-15	Mustang; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	85-72	<b>V-1961B</b> Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	71-70	<b>V-1961B</b> Std-15	w/2 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	69	<b>V-1961B</b> Std-15	From change L-4; w/2 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	69	<b>V-1784B15</b> 15	To change L-4; w/2 Bbl. Carb.; Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	68	<b>V-1784B15</b> 15	Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Intake	90-88	<b>V-2045</b> Std-15	Mark VII & Mustang; Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	90-88	<b>V-2430</b> Std-15	VIN Code "F"; Chrome plated stem; 1.7770" Head Dia., .3420" Stem Dia., 4.9420" O.A.L.
8	Intake	87	<b>V-2045</b> Std-15	Mustang; Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	87	<b>V-2430</b> Std-15	VIN Code "F"; Chrome plated stem; 1.7770" Head Dia., .3420" Stem Dia., 4.9420" O.A.L.
8	Intake	86	<b>V-2430</b> Std-15	Chrome plated stem; 1.7770" Head Dia., .3420" Stem Dia., 4.9420" O.A.L.
8	Intake	85-79	<b>V-2045</b> Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	78	<b>V-1932</b> Std-15	w/Cast iron rocker arms; Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	78	<b>V-2045</b> Std-15	w/Stamped steel rocker arms; Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	77-72	<b>V-1932</b> Std-15	Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	71-70	<b>V-1932</b> Std-15	w/2 Bbl. Carb.; Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	69	<b>V-1932</b> Std-15	From change L-4; w/2 Bbl. Carb.; Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	69	<b>V-1785</b> Std-15	To change L-4; w/2 Bbl. Carb.; 1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake	68	<b>V-1785</b> Std-15	1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake, Bulk	90-88	<b>V-2045B</b> Std-15	Mark VII & Mustang; Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	90-88	<b>V-2430B15</b> 15	VIN Code "F"; Chrome plated stem; Carton of 25; 1.7770" Head Dia., .3570" Stem Dia., 4.9420" O.A.L.
8	Intake, Bulk	87	<b>V-2045B</b> Std-15	Mustang; Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	87	<b>V-2430B15</b> 15	VIN Code "F"; Chrome plated stem; Carton of 25; 1.7770" Head Dia., .3570" Stem Dia., 4.9420" O.A.L.
8	Intake, Bulk	86	<b>V-2430B15</b> 15	Chrome plated stem; Carton of 25; 1.7770" Head Dia., .3570" Stem Dia., 4.9420" O.A.L.
8	Intake, Bulk	85-79	<b>V-2045B</b> Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	78	<b>V-1932B15</b> 15	w/Cast iron rocker arms; Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	78	<b>V-2045B</b> Std-15	w/Stamped steel rocker arms; Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	77-72	<b>V-1932B15</b> 15	Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	71-70	<b>V-1932B15</b> 15	w/2 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	69	<b>V-1932B15</b> 15	From change L-4; w/2 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	69	<b>V-1785B</b> Std-15	To change L-4; w/2 Bbl. Carb.; Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
8	Intake, Bulk	68	<b>V-1785B</b> Std-15	Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	90-73	<b>VG-5005</b>	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
16	Guide	90-73	<b>VG-5005H</b>	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	90-73	<b>VG-5005T</b>	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide	72-68	<b>VG-5061</b>	.3430" ID, 2.3800" O.A.L.
16	Guide, Bulk	90-73	<b>VG-5005B</b>	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.

VALVE TRAIN

VALVE TRAIN

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# Ford Car

## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
16	Guide, Bulk	90-73	VG-5005TB	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-85	VS-733	Exh.; Exc. VIN Code "E"; 1.9230" Free Height
8	Spring	90-85	VS-919	Exh.; VIN Code "E"; 1.9000" Free Height
8	Spring	90-85	VS-718	Int.; Exc. VIN Code "E"; 2.0280" Free Height
8	Spring	90-85	VS-918	Int.; VIN Code "E"; 2.0280" Free Height
16	Spring	85-68	VS-661	Int. & Exh.; Incl. damper; 2.0460" Free Height
8	Spring	84-83	VS-919	Exh.; VIN Code "M"; 1.9000" Free Height
8	Spring	84-83	VS-918	Int.; VIN Code "M"; 2.0280" Free Height
8	Spring	84-80	VS-733	Exh.; VIN Code "F"; w/2 Bbl. Carb.; 1.9230" Free Height
8	Spring	84-80	VS-718	Int.; VIN Code "F"; w/2 Bbl. Carb.; 2.0280" Free Height
8	Spring	79	VS-733	Exh.; 1.9230" Free Height
8	Spring	79	VS-718	Int.; 2.0280" Free Height
8	Spring	78	VS-733	Exh.; 1.9230" Free Height
8	Spring	78	VS-1435	Int.; w/Cast iron rocker arms; 1.9650" Free Height
8	Spring	78	VS-718	Int.; w/Stamped steel rocker arms; 2.0280" Free Height
8	Spring	77-73	VS-733	Exh.; 1.9230" Free Height
8	Spring	77-73	VS-1435	Int.; 1.9650" Free Height
16	Spring	72	VS-1435	Exh. & Int.; 1.9650" Free Height
16	Spring	71-70	VS-1435	Exh. & Int.; w/2 Bbl. Carb.; 1.9650" Free Height
16	Spring	71-69	VS-717	Exh. & Int.; w/4 Bbl. Carb.; Incl. damper; 2.0260" Free Height
16	Spring	69	VS-1435	Exh. & Int.; From change L-4; w/2 Bbl. Carb.; 1.9650" Free Height
16	Spring	69	VS-672	Exh. & Int.; To change L-4; w/2 Bbl. Carb.; 1.9700" Free Height
16	Spring	68	VS-672	Exh. & Int.; 1.9700" Free Height
8	Spring, Bulk	90-85	VS-733B	Exh.; Exc. VIN Code "E"; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	90-85	VS-919B	Exh.; VIN Code "E"; Carton of 300; 1.9000" Free Height
8	Spring, Bulk	90-85	VS-718B	Int.; Exc. VIN Code "E"; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	84-83	VS-919B	Exh.; VIN Code "M"; Carton of 300; 1.9000" Free Height
8	Spring, Bulk	84-80	VS-733B	Exh.; VIN Code "F"; w/2 Bbl. Carb.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	84-80	VS-718B	Int.; VIN Code "F"; w/2 Bbl. Carb.; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	79	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	79	VS-718B	Int.; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	78	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	78	VS-1435B	Int.; w/Cast iron rocker arms; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	78	VS-718B	Int.; w/Stamped steel rocker arms; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	77-73	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	77-73	VS-1435B	Int.; Carton of 250; 1.9650" Free Height
16	Spring, Bulk	72	VS-1435B	Exh. & Int.; Carton of 250; 1.9650" Free Height
16	Spring, Bulk	71-70	VS-1435B	Exh. & Int.; w/2 Bbl. Carb.; Carton of 250; 1.9650" Free Height
16	Spring, Bulk	69	VS-1435B	Exh. & Int.; From change L-4; w/2 Bbl. Carb.; Carton of 250; 1.9650" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2092	Exh. & Int.; O.E. design; Positive type; Rubber
16	Valve Stem Seal	90-70	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	83-68	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	71-69	ST-2018R	w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Use w/double spring; PTFE
16	Valve Stem Seal	89-86	MV-1819C	Exh.; VIN Code "F"; Umbrella type; Nylon
8	Valve Stem Seal	85-81	MV-1819C	Exh.; Fits Std. valve stem only; Umbrella type; Nylon
8	Valve Stem Seal	85-81	MV-1906	Int.; Fits Std. valve stem only; Umbrella type; Nylon
16	Valve Stem Seal	80-68	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	90-70	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	89-86	MV-1819	Exh.; VIN Code "F"; Umbrella type; Carton of 50; Nylon
8	Valve Stem Seal Bulk	85-81	MV-1819	Exh.; Fits Std. valve stem only; Umbrella type; Carton of 50; Nylon
16	Valve Stem Seal Bulk	80-68	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber

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# Ford Car

**5.0L 302 OHV V8, 4" Bore 1990-68 44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

VALVE TRAIN	QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Valve Stem Seal Bulk	71-69	ST-2018RBC	w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Carton of 100; Use w/double spring; PTFE	
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	8	Exh.	90-68	245-1562-1 Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth	
	8	Exh.	90-68	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth	
	8	Int.	90-68	245-1875-1 Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth	
	8	Int.	90-68	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth	
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	32	Keeper	90-68	VK-115	1 groove; Square cut key groove	
	32	Keeper	90-68	VK-115R	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	90-68	VK-115B	1 groove; Square cut key groove; Carton of 1000	
	16	Spring Insert	90-68	259-102C	.015"; Carton of 100	
	16	Spring Insert	90-68	259-102B	.030"; Carton of 100	
	16	Spring Insert	90-68	259-102A	.060"; Carton of 100	
	16	Spring Insert	90-68	259-102ARS	.060"; Carton of 500	
	8	Rotacap	90-73	RC-140	Exh.	
	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
	8	Cast Piston	90-86	506P Std-20-30-40	Exc. VIN Codes "E" & "T"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9122" Pin Dia., Recessed Head .050" deep x 2.500" dia. - 8.9:1 C.R.	
	8	Cast Piston	90-86	H654CP20 20-30-40-60	VIN Code "E"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	90-86	H654P Std-20-30-40-60	VIN Code "E"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs	
	8	Cast Piston	90-86	H606P Std-20-30-40-60	VIN Codes "E" & "T"; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.600" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs	
	8	Cast Piston	90-84	H273CP Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	85	H654CP20 20-30-40-60	VIN Code "E"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	85	H654P Std-20-30-40-60	VIN Code "E"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs	
	8	Cast Piston	85-77	273AP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head	
	8	Cast Piston	84-83	H654CP20 20-30-40-60	VIN Code "M"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	84-82	H654P Std-20-30-40-60	VIN Code "M"; Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs	
	8	Cast Piston	83-80	H273CP Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	81-77	H654CP20 20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	81-77	H654P Std-20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs	
	8	Cast Piston	79	H273CP Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	

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# Ford Car

**44** 5.0L 302 OHV V8, 4" Bore 1990-68  
 (cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	78-77	<b>H273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	76-74	<b>H273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	76-73	<b>272AP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston	73-72	<b>H273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	72-69	<b>272AP</b> Std-20-30-40-60-80	w/2 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston	71-68	<b>H273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	68	<b>272AP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	90-86	<b>W506P</b> Std-20-30-40	Exc. VIN Codes "E" & "T"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9122" Pin Dia., Recessed Head .050" deep x 2.500" dia. - 8.9:1 C.R.
8	Cast Piston - Individual	90-86	<b>WH606P</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.600" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	90-86	<b>WH654P</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	90-84	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	85	<b>WH654P</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	85-77	<b>W273AP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	84-83	<b>WH654P</b> Std-20-30-40-60	VIN Code "M"; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	83-80	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	81-77	<b>WH654P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	79	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	78-77	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	76-74	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	76-73	<b>W272AP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	73-72	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	72	<b>W272AP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	71-69	<b>W272AP</b> Std-20-30-40-60-80	w/2 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	71-68	<b>WH273CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-251K, E-251KC or E-251X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	68	<b>W272AP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-86	<b>8KH654CP30</b> 30-40-60	VIN Codes "E" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90-84	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	85-77	<b>8K273AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	85-77	<b>8KH654CP30</b> 30-40-60	VIN Code "E"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-80	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	79	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	78-77	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	76-74	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	76-73	<b>8K272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	73-72	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	72	<b>8K272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	71-69	<b>8K272AP20</b> 20-30-40-60	w/2 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	71-68	<b>8KH273CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	68	<b>8K272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-86	<b>8XH654P30</b> 30-40-60	VIN Code "E"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	85	<b>8XH654P30</b> 30-40-60	VIN Code "E"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	85-77	<b>8X273AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Econ. Rings	84-83	<b>8XH654P30</b> 30-40-60	VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	81-77	<b>8XH654P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	76-73	<b>8X272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.

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# Ford Car

**44 5.0L 302 OHV V8, 4" Bore 1990-68**  
 (cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Econ. Rings	72	<b>8X272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	71-69	<b>8X272AP20</b> 20-30-40-60	w/2 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	68	<b>8X272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Powerforged	90	<b>L-2488F</b> Std-20-30-40-60	VIN Code "E"; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	89-86	<b>L-2488F</b> Std-20-30-40-60	VIN Code "E"; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85	<b>L-2488F</b> Std-20-30-40-60	VIN Code "E"; From 1/85; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	84	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	83-77	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	76-73	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72	<b>L-2305F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71-69	<b>L-2305F</b> Std-20-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68	<b>L-2305F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	90	<b>WL-2488F</b> Std-20-30-40-60	Mustang & Mark VII; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	89-86	<b>WL-2488F</b> Std-20-30-40-60	VIN Code "E"; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	85	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	85	<b>WL-2488F</b> Std-20-30-40-60	VIN Code "E"; From 1/85; Powerforged; 2-1.50mm, 1-4.00mm Ring Groove, 1.619" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	84	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	83-77	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	76-73	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72	<b>WL-2305F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71-69	<b>WL-2305F</b> Std-30-40	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Forged Piston - Individual	68	<b>WL-2305F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	85	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	84	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	83-77	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	76-73	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-86	<b>E-251K</b> Std-10-20-30-40-60	Use w/H654P or H654CP piston; 2-5/64, 1-3/16
1	Premium Set	90-86	<b>E-458K</b> Std-5-20-30-40-60	2-1.50MM, 1-4.00MM
1	Premium Set	85	<b>E-251K</b> Std-10-20-30-40-60	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
1	Premium Set	85	<b>E-251KC</b> Std-10-20-30-40-60	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
1	Premium Set	84-68	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	84-68	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	84-68	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-86	<b>E-251X</b> Std-10-20-30-40-60-80	Use w/H654P piston; 2-5/64, 1-3/16
1	Standard Set	90-86	<b>E-458X</b> Std-20-30-40-60	2-1.50MM, 1-4.00MM
1	Standard Set	85	<b>E-251X</b> Std-10-20-30-40-60-80	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
1	Standard Set	84-68	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-86	<b>WE-251K</b> Std-20-30-40-60	Use w/WH654P piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-86	<b>WE-251KC</b> Std-20-30-40-60	Use w/WH654P piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-86	<b>WE-458K</b> Std-20-30-40-60	2-1.50MM, 1-4.00MM
8	Premium Single Cylinder Set	85	<b>WE-251K</b> Std-20-30-40-60	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	85	<b>WE-251KC</b> Std-20-30-40-60	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	84-68	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	84-68	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-86	<b>WE-251X</b> Std-20-30-40-60-80	Use w/WH654P piston; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	85	<b>WE-251X</b> Std-20-30-40-60-80	VIN Code "E"; To 1/85; Check piston grooving before supplying ring set; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	84-68	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	90-68	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	90-68	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-68	<b>7151M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-68	<b>4125MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set	90-68	<b>4125M</b> Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	90-68	<b>8-2600A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-68	<b>8-2600A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	90-68	<b>8-2600CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set	90-68	<b>8-2600CP</b> Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set	90-68	<b>8-2600CA60</b> 60	Unplated & resizeable
8	Rod Pair	90-68	<b>2600CP</b> Std-1-2-10-20-30-40	
8	Rod Pair	90-68	<b>2600A</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set	90-68	<b>1204M</b> Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-72	<b>224-41118</b>	
1	Oil Pump	90-71	<b>224-43370</b>	High Pressure
1	Oil Pump	90-71	<b>224-41128</b>	High Volume, check pan for clearance; Incl. inter. shaft
1	Oil Pump	71-69	<b>224-41118</b>	w/2 Bbl. Carb.
1	Oil Pump	70-68	<b>224-43370</b>	High Pressure

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# Ford Car

## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	70-68	224-41128	High Volume, check pan for clearance; Incl. inter. shaft  From 8/28/90 To 8/27/90  Exc. Mustang, Capri, Fairmont & Zephyr Mustang, Capri, Fairmont & Zephyr Exc. Mustang II, Fairmont & Zephyr Fairmont & Zephyr Exc. Mustang II
1	Oil Pump	68	224-41118	
1	Inter. Shaft	90-71	224-61118	
1	Screen Assy.	90	224-16118	
1	Screen Assy.	90	224-14118	
1	Screen Assy.	89-81	224-14118	
1	Screen Assy.	79	224-11118	
1	Screen Assy.	79	224-14118	
1	Screen Assy.	78	224-11118	
1	Screen Assy.	78	224-14118	
1	Screen Assy.	77-75	224-11118	Exc. Mustang II
1	Screen Assy.	74-68	224-11118	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-87	260-1445	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-86	260-1720	Premium set; Exh. header gskts. incl.; Complete set
1	Kit Gasket Set	86	260-1445	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1082	Premium Set; VIN Code "F"; Header gskts. incl.; Complete set
1	Kit Gasket Set	85	260-1213A	VIN Code "E"; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1169	VIN Code "F"; One-piece rear main brg. seal incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84	260-1169	VIN Code "F"; One-piece rear main brg. seal incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84-83	260-1082	Premium Set; VIN Code "F"; Header gskts. incl.; Complete set
1	Kit Gasket Set	84-83	260-1213A	VIN Code "M"; Premium valve stem seals incl.
1	Kit Gasket Set	83	260-1169	VIN Code "F"; From 12/1/82; One-piece rear main brg. seal incl.; Premium valve stem seals incl.
1	Kit Gasket Set	82	260-1213A	Exc. Mustang; Premium valve stem seals incl.
1	Kit Gasket Set	82	260-1082	Premium Set; Exc. Mustang; Header gskts. incl.; Complete set
1	Kit Gasket Set	82	260-1125	To 11/30/82; Exc. Mustang; Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	81-75	260-1125	Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	81-68	260-1082	Premium Set; Header gskts. incl.; Complete set
1	Kit Gasket Set	74	260-1125	Thermactor Emission int. manifold gskts. not incl.; Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	73-72	260-1125	Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	71-69	260-1125	w/2 Bbl. Carb.; Premium set; Premium valve stem seals incl.
1	Kit Gasket Set	68	260-1125	Premium set; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-68	381-8015	
1	Steel Block Plug Kit	90-68	381-4010	
RE-RING KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-87	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	205-6115M	205-1115M
90-87	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-6115	205-1115
86	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	205-6115M	205-1115M
86	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-6115	205-1115
85	VIN Code "E"; To 1/85; Check piston grooving before supplying kit; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	205-888M	205-388M
85	VIN Code "E"; To 1/85; Check piston grooving before supplying kit; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-888	205-388

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

RE-RING KIT (cont.)	PREMIUM KIT NO.	ECONOMY KIT NO.
84	205-760M	205-260M
84	205-760	205-260
84-83	205-888M	205-388M
84-83	205-888	205-388
83	205-760M	205-260M
83	205-760	205-260
82	205-653	205-153
82	205-653M	205-153M
82	205-888M	205-388M
82	205-888	205-388
81-75	205-653	205-153
81-75	205-653M	205-153M
74	205-653	205-153
74	205-653M	205-153M
73-72	205-653	205-153
73-72	205-653M	205-153M
71-69	205-653	205-153
71-69	205-653M	205-153M
68	205-653	205-153
68	205-653M	205-153M

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## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

YEARS	DESCRIPTION		PREMIUM	ECONOMY
			KIT NO.	KIT NO.
90-89	VIN Code "E"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6115A MK-6115A	MKP-1115A MK-1115A
90-89	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6115A	505-1115A
90-89	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. contoured design thrust brg	Mster w/Frg. Pstn. Prm. Rings	MKF-6115A	----
90-86	VIN Codes "E" & "T"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6158	----
90-86	VIN Codes "E" & "T"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Block	BK-6158	----
90-86	Exc. VIN Codes "E" & "T"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6159	----
90-86	Exc. VIN Codes "E" & "T"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Block	BK-6159	----
90-86	Exc. VIN Codes "E" & "T"; Premium set; Exh. header gskts. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Block w/Pump & Freeze Plugs	BKP-6160	----
90-86	Exc. VIN Codes "E" & "T"; Premium set; Exh. header gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Block	BK-6160	----
90-86	VIN Codes "E" & "T"; Premium set; Exh. header gskts. incl.; Complete set; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. H606P piston	Block w/Pump & Freeze Plugs Block	BKP-6163 BK-6163	----
90-86	VIN Codes "E" & "T"; Premium set; Exh. header gskts. incl.; Complete set; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. H654P piston	Block w/Pump & Freeze Plugs Block	BKP-6164 BK-6164	----
90-86	VIN Code "F"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; w/.900" thick cam sprocket hub	Master w/o Pistons	MK-7044	----
90-86	VIN Code "F"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-7044	----
90-86	VIN Code "F"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-7044	----
88	VIN Code "E"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6115A MK-6115A	MKP-1115A MK-1115A
88	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6115A	505-1115A
88	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. contoured design thrust brg	Mster w/Frg. Pstn. Prm. Rings	MKF-6115A	----
87	VIN Code "E"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6115A MK-6115A	MKP-1115A MK-1115A

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
87	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6115A	505-1115A
87	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. contoured design thrust brg	Master w/Frg. Pstn. Prm. Rings	MKF-6115A	----
86	VIN Code "E"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6115A MK-6115A	MKP-1115A MK-1115A
86	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6115A	505-1115A
86	VIN Code "E"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. contoured design thrust brg	Master w/Frg. Pstn. Prm. Rings	MKF-6115A	----
84	VIN Code "F"; w/2 Bbl. Carb.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-760A MK-760A	MKP-260A MK-260A
84	VIN Code "F"; w/2 Bbl. Carb.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-760A	505-260A
84	VIN Code "M"; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-888A MK-888A	MKP-388A MK-388A
84	VIN Code "M"; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master w/o Rods & Mains	505-888A	505-388A
84-83	VIN Code "M"; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master w/Frg. Pstn. Prm. Rings	MKF-888A	----
83	VIN Code "F"; From 12/1/82; w/2 Bbl. Carb.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-760A MK-760A	MKP-260A MK-260A
83	VIN Code "F"; From 12/1/82; w/2 Bbl. Carb.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings	MKF-760A	----
83	VIN Code "F"; From 12/1/82; w/2 Bbl. Carb.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-760A	505-260A
83	VIN Code "M"; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-888A MK-888A	MKP-388A MK-388A
83	VIN Code "M"; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master w/o Rods & Mains	505-888A	505-388A
82	To 11/30/82; Exc. Mustang; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings	MKF-653H	----
82	To 11/30/82; VIN Code "F"; Exc. Mustang; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653H	505-153H
82	To 11/30/82; VIN Code "F"; Exc. Mustang; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653H MK-653H	MKP-153H MK-153H

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## 44 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95

YEARS	OVERHAUL KIT (cont.)		PREMIUM	ECONOMY
	DESCRIPTION		KIT NO.	KIT NO.
81-80	VIN Code "F"; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
81-80	VIN Code "F"; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653H	505-153H
81-80	VIN Code "F"; w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653H MK-653H	MKP-153H MK-153H
79-77	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
79-77	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653H	505-153H
79-77	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653H MK-653H	MKP-153H MK-153H
76	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653G	505-153G
76	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653G	MKP-153G
76	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
76	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653H	MK-153H
76-75	Canada; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653F	505-153F
76-75	Canada; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653F MK-653F	MKP-153F MK-153F
75	To 5/19/75; U.S.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653F	505-153F
75	To 5/19/75; U.S.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653F MK-653F	MKP-153F MK-153F
75	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653G	505-153G
75	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653G	MKP-153G
75	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
75	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653H	MK-153H
74	Thermactor Emission int. manifold gskts. not incl.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653F	505-153F
74	Thermactor Emission int. manifold gskts. not incl.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653F MK-653F	MKP-153F MK-153F
73	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653F	505-153F
73	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653F MK-653F	MKP-153F MK-153F
72	To 5/1/72; w/2 Bbl. Carb.; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653D	505-153D

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# Ford Car

5.0L 302 OHV V8, 4" Bore 1990-68 **44**

VIN Codes "D" 1969-72, "D" 1993-95 (Cobra), "E" 1985-93, "F" 1968-91, "G" 1969-71 (Boss & Eliminator), "J" 1968, "M" 1983-87, "T" 1991-95 (cont.)

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
72	To 5/1/72; w/2 Bbl. Carb.; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653D	MKP-153D
72	To 5/1/72; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653D	----
72	To 5/1/72; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653D	MK-153D
72	From 5/2/72; w/2 Bbl. Carb.; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653F	505-153F
72	From 5/2/72; w/2 Bbl. Carb.; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master	MKP-653F	MKP-153F
72	From 5/2/72; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653F	----
72	From 5/2/72; Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653F	MK-153F
71-69	w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653D	----
71-69	w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653D	505-153D
71-69	w/2 Bbl. Carb.; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653D MK-653D	MKP-153D MK-153D
68	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653D	----
68	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653D	505-153D
68	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653D MK-653D	MKP-153D MK-153D

5.1L 312 OHV V8, 3.7969" Bore 1960-56 **45**

VIN Codes "D" 1957, "E" 1956-57, "F" 1957, "L" 1958, "P" 1956-60

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	60-56	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	60-56	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	60-56	223-249	Use w/silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	60-58	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Camshaft	57	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Camshaft	56	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Prelube	60-56	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	60-58	RP-3022	8.3400" O.A.L.
16	Push Rod	57-56	RP-3022	Exc. VIN Code "E"; 8.3400" O.A.L.
16	Push Rod, Bulk	60-58	BRP-3022	Carton of 100; 8.3400" O.A.L.
16	Push Rod, Bulk	57-56	BRP-3022	Exc. VIN Code "E"; Carton of 100; 8.3400" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	60-56	RA-1001H	For 1 bank
1	Shaft Assy.	60-56	RA-1001	For 1 complete Eng.

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**45 5.1L 312 OHV V8, 3.7969" Bore 1960-56**  
 (cont.) VIN Codes "D" 1957, "E" 1956-57, "F" 1957, "L" 1958, "P" 1956-60

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	60-56	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	60	V-1128 Std Only	1.6470" Head Dia., .3420" Stem Dia., 5.0900" O.A.L.
8	Intake	59-57	V-1285 Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
8	Intake	56	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	60-56	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	60-56	VG-5061	Int.; .3430" ID, 2.3800" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	60-56	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	60-56	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	60-56	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	60-56	MV-1599	Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	60-56	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	60-56	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	59-57	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	56	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	60-56	VK-115	1 groove; Square cut key groove
32	Keeper	60-56	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	60-56	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	60-56	259-102C	.015"; Carton of 100
16	Spring Insert	60-56	259-102B	.030"; Carton of 100
16	Spring Insert	60-56	259-102A	.060"; Carton of 100
16	Spring Insert	60-56	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	60-56	1031P Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 9.5:1 C.R.; Use in sets only
8	Cast Piston - Individual	60-56	W1031P Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 9.5:1 C.R.; Use in sets only
8	Pin Bushing	60-56	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	60-56	1834V	1.306" max. length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	60-56	E-175X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Standard Single Cylinder Set	60-56	WE-175X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	60-56	963M Std-10-20-30	
1	Rod Set	60-56	8-2000CPA Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	60-56	2000CPA Std-1-10-20-30-40	
1	Cam Set	60-56	1160M Std Only	w/Grooved No. 3 cam journal
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	60-56	224-41123	
1	Pump Repair Kit	60-56	224-51297	Rotor type
1	Inter. Shaft	60-56	224-61123	

**46 5.2L 317.5 OHV V8 (Lincoln), 3.8125" Bore 1954-52**

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	54-52	HT-2083 Std Only	Hyd.
16	Lifter, Bulk	54-52	HT-2083B Std Only	Hyd.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	54-52	RP-3021	9.8200" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Intake	52	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	54-52	VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
8	Guide	54-52	VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	54-52	VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	54-52	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	54-52	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	54-52	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	54-52	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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# Ford Car

5.2L 317.5 OHV V8 (Lincoln), 3.8125" Bore 1954-52 **46**

(cont.)

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	54-52	245-1625-4 Std Only	1.6305" OD, 1.3120" ID, .2175" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	54-52	VK-115	1 groove; Square cut key groove
32	Keeper	54-52	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	54-52	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	54-52	E-288K Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	54-52	E-288KC20 20-40	2-5/64, 1-3/16
1	Standard Set	54-52	E-288X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	54-52	WE-288K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	54-52	WE-288X Std-20-30-40-60	2-5/64, 1-3/16

5.4L 332 OHV V8, 4" Bore 1959-58 **47**

VIN Codes "B" 1958-59, "G" 1958-59

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	59-58	222-494	48 Links
1	Cam Sprocket	59-58	223-284	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	59-58	HT-2083 Std Only	Hyd.
16	Lifter, Bulk	59-58	HT-2083B Std Only	Hyd.; Carton of 122
1	Prelube	59-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	59-58	KC-169	Hyd.; Incl. (1) CS-169, (16) HT-2083, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	59	RP-3230R	w/Hyd. lifters; Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.
16	Push Rod	59	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	59	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	59	RP-3172	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	59	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	59	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod	58	RP-3023	w/Hyd. lifters; Ball & cup type ends; 9.5300" O.A.L.
16	Push Rod, Bulk	59	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	59	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	59	R-814	
16	Arm	58	R-821	
2	Rocker Shaft	59	RS-621	
2	Rocker Shaft	58	RS-720	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	59-58	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	59-58	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	59-58	VS-1428	2.3430" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	59-58	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	59-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	59-58	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	59-58	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	59-58	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	59-58	VK-138	1 groove; Square cut key groove
32	Keeper	59-58	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	59-58	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	59-58	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	59-58	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	59-58	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	59-58	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	59-58	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	59-58	E-248K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16
1	Standard Set	59-58	E-248X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Premium Single Cylinder Set	59-58	WE-248K Std-30	1-5/64, 1-3/32, 1-3/16

VALVE TRAIN

VALVE TRAIN

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# Ford Car

## 47 5.4L 332 OHV V8, 4" Bore 1959-58 (cont.) VIN Codes "B" 1958-59, "G" 1958-59

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Standard Single Cylinder Set	59-58	WE-248X Std-30-40	1-5/64, 1-3/32, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
8	Repair Sleeve	59-58	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
8	Repair Sleeve	59-58	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	59-58	4020M Std-10	3.684" max. flange OD	
1	Rod Set	59-58	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng.; 8-3230CA 60 avail. as unplated & resizeable	
1	Rod Set	59-58	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng.	
1	Rod Set	59-58	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng.	
8	Rod Pair	59-58	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng.	
1	Cam Set	59-58	1445M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	59-58	224-41173		
1	Oil Pump	59-58	224-43365A	High Pressure	
1	Oil Pump	59-58	224-41177	High Volume, check pan for clearance	
1	Inter. Shaft	59-58	224-61114		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	59-58	260-1035	Exh. pipe flange not incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	59-58	381-8017		
1	Steel Block Plug Kit	59-58	381-4015		
<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
59-58	Exh. pipe flange not incl.; Squirt hole removed from all Ford V Eng.	Re-ring		205-890	205-390

## 48 5.6L 341 OHV V8 (Lincoln), 3.9375" Bore 1955

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	55	RP-3021	9.8200" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	55	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	55	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	55	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	55	MV-1599	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	55	VK-115	1 groove; Square cut key groove
32	Keeper	55	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	55	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	55	2469V	1.276" length
8	Pin Bushing	55	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	55	1834V	1.306" max. length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	55	E-252X Std-30	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	55	1835CPA Std-10	

## 49 5.8L 351 OHV V8 (Cleveland), 4" Bore 1974-70 VIN Codes "H" 1970-74, "M" 1970-71, "Q" 1971-74 (Cobra Jet), "R" 1971-72 (Boss)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	74-73	KT3-498SA2	VIN Code "H"; Incl. (1) KT3-498SA2
1	3 Piece Set	74-73	KT3-494SA2	VIN Code "Q"; Incl. (1) 222-494, (1) 223-420A, (1) 223-493
1	3 Piece Set	72-70	KT3-494SA2	Incl. (1) 222-494, (1) 223-420A, (1) 223-493
1	Timing Chain	74-73	222-498	VIN Code "H"; 48 Links
1	Timing Chain	74-73	222-494	VIN Code "Q"; 48 Links
1	Timing Chain	72-70	222-494	48 Links
1	Crank Sprocket	74-73	223-475	VIN Code "H"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-475; 18 Teeth

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# Ford Car

**5.8L 351 OHV V8 (Cleveland), 4" Bore 1974-70 49**

VIN Codes "H" 1970-74, "M" 1970-71, "Q" 1971-74 (Cobra Jet), "R" 1971-72 (Boss) (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket	74-73	223-493	VIN Code "Q"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Crank Sprocket	72-70	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	74-73	223-420A	VIN Code "Q"; 36 Teeth
1	Cam Sprocket	72-70	223-420A	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	74	CS-650	VIN Code "Q"
1	Camshaft	74-70	CS-667	VIN Code "H"
1	Camshaft	73-72	CS-650	VIN Codes "Q" & "R"
1	Camshaft	71	CS-650	VIN Codes "M", "Q" & "R"
1	Camshaft	70	CS-650	VIN Code "M"
16	Lifter	74-70	HT-900 Std Only	Hyd.
16	Lifter	74-70	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	74-70	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	74-70	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	74-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	74-70	KC-667	VIN Code "H"; Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-73	KCT-667A	VIN Code "H"; Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-498SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-73	KCT-650	VIN Code "Q"; Hyd.; Incl. (1) CS-650, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-650	VIN Codes "Q" & "R"; Hyd.; Incl. (1) CS-650, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-667	VIN Code "H"; Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	KCT-650	VIN Codes "M", "Q" & "R"; Hyd.; Incl. (1) CS-650, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	70	KCT-650	VIN Code "M"; Hyd.; Incl. (1) CS-650, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	74-70	RP-3226R	Chrome-Moly; 8.4100" O.A.L.
16	Push Rod	74-70	RP-3184	8.4120" O.A.L.
16	Push Rod	72-71	RP-3169	VIN Code "R"; 8.4920" O.A.L.
16	Push Rod, Bulk	74-70	BRP-3184	Carton of 100; 8.4120" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	74-70	R-855	Incl. arm & pivot
16	Arm Assy., Bulk	74-70	R-855B	Incl. arm & pivot; Carton of 64
16	Arm	74-70	R-855A	
16	Bolt	74-70	MR-1951	5/16" X 18 UNC w/o washer
16	Pivot	74-70	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	74	V-1879 Std Only	VIN Code "Q"; Chrome plated stem; 1.7100" Head Dia., .3415" Stem Dia., 5.0500" O.A.L.
8	Exhaust	74-70	V-2030 Std-15	VIN Code "H"; 4 groove; Chrome plated stem; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust	73-72	V-1879 Std Only	VIN Codes "Q" & "R"; Chrome plated stem; 1.7100" Head Dia., .3415" Stem Dia., 5.0500" O.A.L.
8	Exhaust	71	V-1879 Std Only	VIN Codes "M", "Q" & "R"; Chrome plated stem; 1.7100" Head Dia., .3415" Stem Dia., 5.0500" O.A.L.
8	Exhaust	70	V-1879 Std Only	VIN Code "M"; Chrome plated stem; 1.7100" Head Dia., .3415" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	74-70	V-2030B Std-15	VIN Code "H"; 4 groove; Chrome plated stem; Carton of 25; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Intake	74-70	V-2075 Std-15	VIN Code "H"; 4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	74-70	V-2075B Std-15	VIN Code "H"; 4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	74-70	VG-5005	.3430" ID, 2.2500" O.A.L.
16	Guide	74-70	VG-5005H	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	74-70	VG-5005T	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	74-70	VG-5005B	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	74-70	VG-5005TB	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.

VALVE TRAIN

VALVE TRAIN

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# Ford Car

**49 5.8L 351 OHV V8 (Cleveland), 4" Bore 1974-70**  
 (cont.) VIN Codes "H" 1970-74, "M" 1970-71, "Q" 1971-74 (Cobra Jet), "R" 1971-72 (Boss)

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	74	VS-717	VIN Code "Q"; Incl. damper; 2.0260" Free Height
16	Spring	74-70	VS-703	VIN Code "H"; 2.0560" Free Height
16	Spring	73-72	VS-717	VIN Codes "Q" & "R"; Incl. damper; 2.0260" Free Height
16	Spring	71	VS-717	VIN Codes "M", "Q" & "R"; Incl. damper; 2.0260" Free Height
16	Spring	70	VS-717	VIN Code "M"; Incl. damper; 2.0260" Free Height
16	Spring, Bulk	74-70	VS-703B	VIN Code "H"; Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	74-70	ST-2001	Exc. VIN Code "R"; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	74-70	ST-2018R	VIN Code "R"; Positive type; Installation requires valve guide machining; Use w/double spring; PTFE
16	Valve Stem Seal	74-73	MV-1817C	VIN Code "H"; Umbrella type; Polyacrylate
16	Valve Stem Seal	74-73	MV-1796C	VIN Code "Q"; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	72	MV-1817C	VIN Code "H"; Umbrella type; Polyacrylate
16	Valve Stem Seal	72-70	MV-1796C	VIN Code "Q"; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	71-70	MV-1817C	VIN Codes "H" & "M"; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	74-73	MV-1817	VIN Code "H"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	74-73	MV-1796	VIN Code "Q"; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	74-70	ST-2001BC	Exc. VIN Code "R"; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	74-70	ST-2018RBC	VIN Code "R"; Positive type; Installation requires valve guide machining; Carton of 100; Use w/double spring; PTFE
16	Valve Stem Seal Bulk	72	MV-1817	VIN Code "H"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72-70	MV-1796	VIN Code "Q"; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	71-70	MV-1817	VIN Codes "H" & "M"; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	74-70	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-70	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	74-70	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	74-70	VK-115	1 groove; Square cut key groove
32	Keeper	74-70	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	74-70	VK-205	4 groove
32	Keeper	74-70	VK-205R	4 groove; Hardened
32	Keeper, Bulk	74-70	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	74-70	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	74-70	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	74-70	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	74-70	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	74-70	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	74-70	425NP * Std-20-30-40-60	Exc. VIN Code "R"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9123" Pin Dia., Recessed Head .080" deep x 2.770" dia. - 7.9:1 C.R.
8	Cast Piston	74-70	425P + Std-20-30-40-60	Exc. VIN Code "R"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9123" Pin Dia., Recessed Head .080" deep x 2.770" dia. - 7.9:1 C.R.; When depleted use 425NP
8	Cast Piston	72-70	H555CP Std-20-30-40-60	Hypereutectic; Stock replacement; Must use 96 & higher octane premium fuel; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	74-70	W425NP30 * 30	Exc. VIN Code "R"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9123" Pin Dia., Recessed Head .080" deep x 2.770" dia. - 7.9:1 C.R.
8	Powerforged	72-70	L-2379F Std-30-40	Powerforged; Stock replacement; Must use 96 & higher octane premium fuel; 2-5/64", 1-3/16" Ring Groove, 1.647" CD, .9123" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-70	WL-2379F Std-30-40	Powerforged; Stock replacement; Must use 96 & higher octane premium fuel; 2-5/64", 1-3/16" Ring Groove, 1.647" CD, .9123" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	74-70	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16

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# Ford Car

## 5.8L 351 OHV V8 (Cleveland), 4" Bore 1974-70 49

VIN Codes "H" 1970-74, "M" 1970-71, "Q" 1971-74 (Cobra Jet), "R" 1971-72 (Boss) (cont.)

BLOCK		QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION		
		1	Premium Set	74-70	E-251KC	Std-10-20-30-40-60	2-5/64, 1-3/16	
		1	Standard Set	74-70	E-251X	Std-10-20-30-40-60-80	2-5/64, 1-3/16	
		8	Premium Single Cylinder Set	74-70	WE-251K	Std-20-30-40-60	2-5/64, 1-3/16	
		8	Premium Single Cylinder Set	74-70	WE-251KC	Std-20-30-40-60	2-5/64, 1-3/16	
		8	Standard Single Cylinder Set	74-70	WE-251X	Std-20-30-40-60-80	2-5/64, 1-3/16	
BLOCK		QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION		
		8	Repair Sleeve	74-70	SL-22Y	Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
		8	Repair Sleeve	74-70	SL-22M	Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
		1	Main Set	74-70	4925M	Std-1-10-20-30		
		1	Rod Set	74-70	8-3400CP	Std-1-10-20-30-40		
		1	Rod Set	74-70	8-3400CP10X2	10X2-20X2-30X2	Use in .002" O/S Rod Bore	
		8	Rod Pair	74-70	3400CP	Std-1-10-20-30-40		
		1	Cam Set	74-70	1403M	Std Only	Babbitt material; Full round design	
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
		1	Oil Pump	74-70	224-41166			
		1	Oil Pump	74-70	224-41166V		High Volume, check pan for clearance	
		1	Pump Repair Kit	74-70	224-51139			
		1	Inter. Shaft	74-70	224-61166			
		1	Screen Assy.	74-70	224-11166			
BLOCK		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
		1	Kit Gasket Set	74-70	260-1014		Exc. Vin Code "H"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Premium valve stem seals incl.	
		1	Kit Gasket Set	74-70	260-1014		VIN Code "H"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	
		1	Valley Pan Gasket Set	74-70	260-4009		VIN Code "H"	
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
		1	Brass Block Plug Kit	74-70	381-8016			
		1	Steel Block Plug Kit	74-70	381-4018			
KITS		YEARS	RE-RING KIT DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
		74-70	Exc. Vin Code "H"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring			205-624	205-124
		74-70	VIN Code "H"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring			205-624	205-124
KITS		YEARS	OVERHAUL KIT DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
		74-73	VIN Code "H"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master Master w/o Pistons			MK-624D	MKP-124D MK-124D
		72-70	VIN Code "H"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master Master w/o Pistons			MKP-624C MK-624C	MKP-124C MK-124C
VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
		1	3 Piece Set	79-75	KT3-498SA2	Incl. (1) KT3-498SA2		
		1	Timing Chain	79-75	222-498	48 Links		
		1	Crank Sprocket	79-75	223-475	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-475; 18 Teeth		
VALVE TRAIN		QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
		1	Camshaft	79-75	CS-667			
		16	Lifter	79-75	HT-900	Std Only	Hyd.	
		16	Lifter, Bulk	79-75	HT-900B	Std Only	Hyd.; Carton of 122	
		1	Prelube	79-75	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
VALVE TRAIN		QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
		1	Cam/Lifter Kit	79-75	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B		
		1	Cam/Lifter/Timing Kit	79-75	KCT-667A	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-498SA2, (1) 55-403B		
VALVE TRAIN		QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
		16	Push Rod	79-75	RP-3186	9.5000" O.A.L.		
		16	Push Rod, Bulk	79-75	BRP-3186	Carton of 100; 9.5000" O.A.L.		
VALVE TRAIN		QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
		16	Arm Assy.	79-75	R-855	Incl. arm & pivot		
		16	Arm Assy., Bulk	79-75	R-855B	Incl. arm & pivot; Carton of 64		
		16	Arm	79-75	R-855A			

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## 50 5.8L 351 OHV V8 (Modified), 4" Bore 1979-75

(cont.) VIN Code "H" 1975-79

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Bolt	79-75	MR-1951	5/16" X 18 UNC w/o washer
16	Pivot	79-75	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	79-78	V-2095 Std-15	Chrome plated stem; 1.6560" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust	77-75	V-2030 Std-15	4 groove; Chrome plated stem; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	79-78	V-2095B15 15	1 groove; Chrome plated stem; Carton of 25; 1.6545" Head Dia., .3564" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	77-75	V-2030B Std-15	4 groove; Chrome plated stem; Carton of 25; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Intake	79	V-2142 Std-15	1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	78-75	V-2075 Std-15	4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	79	V-2142B15 15	1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	78-75	V-2075B Std-15	4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	79-75	VG-5005	.3430" ID, 2.2500" O.A.L.
16	Guide	79-75	VG-5005H	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	79-75	VG-5005T	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	79-75	VG-5005B	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	79-75	VG-5005TB	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	79-78	VS-1435	Exh.; 1.9650" Free Height
8	Spring	79-78	VS-703	Int.; 2.0560" Free Height
16	Spring	77-75	VS-703	Exh. & Int.; 2.0560" Free Height
8	Spring, Bulk	79-78	VS-1435B	Exh.; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	79-78	VS-703B	Int.; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	77-75	VS-703B	Exh. & Int.; Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	79-75	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	79-75	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	79-75	MV-1906	Umbrella type; Nylon
16	Valve Stem Seal Bulk	79-75	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	79-75	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	79-75	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	79-75	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	79-78	VK-115	1 groove; Square cut key groove
32	Keeper	79-78	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	78-75	VK-205	4 groove
32	Keeper	78-75	VK-205R	4 groove; Hardened
32	Keeper, Bulk	79-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	79-75	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	79-75	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	79-75	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	79-75	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	79-75	259-103ARS	.060"; ID 1.030"; Carton of 500
8	Rotocap	79-75	RC-140	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	79-75	451P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.918" CD, .9751" Pin Dia., Recessed Head .088" deep x 2.770" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Cast Piston - Individual	79-75	W451P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.918" CD, .9751" Pin Dia., Recessed Head .088" deep x 2.770" dia. w/2 valve reliefs - 7.9:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-75	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	79-75	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-75	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-75	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-75	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	79-75	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16

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5.8L 351 OHV V8 (Modified), 4" Bore 1979-75 **50**

VIN Code "H" 1975-79 (cont.)

QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	79-75	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	79-75	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	79-77	5078M Std-1-10-20-30-40	
1	Main Set	79-77	7154M10 10-20-30	.020" O/S length flange brg.
1	Main Set	79-77	5078MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	76-75	5107M Std-1-10-20-30-40	
1	Rod Set	79-75	8-3400CP Std-1-10-20-30-40	
1	Rod Set	79-75	8-3400CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair	79-75	3400CP Std-1-10-20-30-40	
1	Cam Set	79-75	1403M Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	79-75	224-41166	
1	Oil Pump	79-75	224-41166V	High Volume, check pan for clearance
1	Pump Repair Kit	79-75	224-51139	
1	Inter. Shaft	79-75	224-61166	
1	Screen Assy.	79-75	224-11166	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	79-75	260-1014	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	79-75	260-4004	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	79-75	381-8016	
1	Steel Block Plug Kit	79-75	381-4018	
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
79-77	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	205-624	205-124
79-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-624AM	205-124AM
76-75	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-624 205-624M	205-124 205-124M
<b>OVERHAUL KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
79	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master	MKP-624G	MKP-124G
79	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-624G	505-124G
79	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons	MK-624G	MK-124G
78-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master	MKP-624G	MKP-124G
78-77	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-624G	505-124G
78-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons	MK-624G	MK-124G
76-75	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master	MKP-624E	MKP-124E
76-75	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-624G	505-124G
76-75	Int. manifold gskts. not incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-624M	MK-124M
<b>5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 <b>51</b></b>				
VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	90-87	KT3-163SA1	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	86-85	KT3-163SA1	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	86-73	KT3-358SA	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	84	KT3-163SA1	From 3/21/84; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612

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**51 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69**  
 (cont.) VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	84	KT3-163SA	To 3/20/84; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531
1	3 Piece Set	83-80	KT3-163SA	Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531
1	3 Piece Set	72	KT3-358SA	From 5/2/72; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	72	KT3-358S	To 5/1/72; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	71-70	KT3-358S	Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	69	KT3-358S	Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	Timing Set w/Gaskets	90-88	CTS-2002	Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	87	CTS-2002	From 6/30/87; Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	86-85	CTS-2002	Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	86-79	CTS-2000	Incl. silent type chain
1	Timing Set w/Gaskets	78-73	CTS-2001	Incl. silent type chain
1	Timing Chain	90-87	222-163	Double rlr.; 58 Links
1	Timing Chain	86-80	222-163	Double rlr.; 58 Links
1	Timing Chain	86-69	222-358	Silent type; 58 Links
1	Crank Sprocket	90-87	223-531	Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	86-80	223-531	Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	86-80	223-431	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket	90-87	223-612	Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	86-85	223-612	Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	86-73	223-430	Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	84	223-612	From 3/21/84; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	84	223-468	To 3/20/84; Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth
1	Cam Sprocket	83-80	223-468	Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth
1	Cam Sprocket	72	223-430	From 5/2/72; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	223-406	To 5/1/72; 42 Teeth
1	Cam Sprocket	71-69	223-406	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-87	CS-764	351W firing order; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 110 Degrees
1	Camshaft	86-80	CS-674	
1	Camshaft	86-80	CS-764	
1	Camshaft	79-69	CS-674	
1	Performance Cam	90-69	CS-1581R	
1	Performance Cam	90-69	CS-1084R	351W firing order; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	90-69	CS-1231R	351W firing order; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4720" Int., .4960" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-69	CS-1158R	302 firing order; Pro-1500 Perf. Cam; Hyd.; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 110 Degrees
16	Lifter	90-69	HT-900 Std Only	Hyd.
16	Lifter	90-69	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	90-69	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	90-69	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	90-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-87	KC-764	Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	90-69	KC-1084R	
1	Cam/Lifter Kit	90-69	KC-1231R	351W firing order; Hyd.; Incl. Pro-2000 Perf. Cam; Duration at .050: 204 Int., 224 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1084R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	86-80	KC-674	351W firing order; Hyd.; Incl. Pro-3000 Perf. Cam; Duration at .050: 214 Int., 224 Exh.; Valve lift .472" Int., .496" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1231R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	86-80	KC-674	Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B

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**5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 51**

VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71 (cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	86-80	KC-764	Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	80-69	KC-1008R +	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B; When depleted use KC-1158R
1	Cam/Lifter Kit	80-69	KC-1158R	302 firing order; Hyd.; Incl. Pro-1500 Perf. Cam; Duration at .050"; 194 Int.; 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1158R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	79-69	KC-674	Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-87	KCT-764C	Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	KCT-764C	Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-80	KCT-674A	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	KCT-764C	From 3/21/84; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	KCT-764	To 3/20/84; Hyd.; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-80	KCT-764	Hyd.; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-73	KCT-674A	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-674A	From 5/2/72; Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-674	To 5/1/72; Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-69	KCT-674	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-80	RP-3323R	Chrome-Moly; 8.1820" O.A.L.
16	Push Rod	90-80	RP-3209	8.1820" O.A.L.
16	Push Rod	79-78	RP-3323R	w/Stamped steel rocker arms; Chrome-Moly; 8.1820" O.A.L.
16	Push Rod	79-78	RP-3209	w/Stamped steel rocker arms; 8.1820" O.A.L.
16	Push Rod	77-69	RP-3166B	-1/16" shorter length; 8.0920" O.A.L.
16	Push Rod	77-69	RP-3225R	Chrome-Moly; 8.1440" O.A.L.
16	Push Rod	77-69	RP-3166	Std. length; 8.1420" O.A.L.
16	Push Rod, Bulk	90-80	BRP-3209	Carton of 100; 8.1820" O.A.L.
16	Push Rod, Bulk	79-78	BRP-3209	w/Stamped steel rocker arms; Carton of 100; 8.1820" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-79	R-879	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	R-879	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	77-69	R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy., Bulk	90-79	R-879B	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	78	R-879B	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	78	R-847B	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	77-69	R-847B	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm	90-79	R-1091R	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Arm	78	R-1091R	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Pivot Ball	78-70	MR-1809	Use w/R-847
16	Nut	78-70	MR-1751	Use w/R-847; Self-locking, 3/8" x 24 threads
16	Nut	78-70	MR-1823	Use w/R-847; 5/16" x 24
16	Bolt	87-79	MR-1847	5/16" X 18 UNC w/Washer
16	Pivot	90-78	MR-1811	Use w/R-879
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-79	V-1961 Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.

VALVE TRAIN

VALVE TRAIN

(continued on next page)

+ Superseded Part Number

# Ford Car

**51 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69**  
 (cont.) VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71

VALVE TRAIN

VALVE TRAIN

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	78	V-2044 Std Only	w/Cast iron rocker arms; w/o Rotators; Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	78	V-1961 Std-3-15	w/Stamped steel rocker arms; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	77-75	V-2044 Std Only	w/o Rotators; Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	74-69	V-1893 Std-15	Chrome plated stem; 1.5400" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	90-79	V-1961B Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	78	V-1961B Std-15	w/Stamped steel rocker arms; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	74-69	V-1893B15 15	Chrome plated stem; Carton of 25; 1.5400" Head Dia., .3565" Stem Dia., 5.0700" O.A.L.
8	Intake	90-87	V-2045 Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	86-80	V-2045 Std-15	Exc. HO, Police & trailer tow options; Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	79-75	V-2045 Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	74-69	V-3926 Std-15	Chrome plated stem; 1.8420" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	90-87	V-2045B Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	86-80	V-2045B Std-15	Exc. HO, Police & trailer tow options; Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	79-75	V-2045B Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	74-69	V-3926B15 15	Chrome plated stem; Carton of 25; 1.8410" Head Dia., .3570" Stem Dia., 5.0700" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-80	VS-919	Exh.; 1.9000" Free Height
8	Spring	90-80	VS-718	Int.; 2.0280" Free Height
8	Spring	90-77	VS-661	Int.; Incl. damper; 2.0460" Free Height
8	Spring	79-77	VS-733	Exh.; 1.9230" Free Height
8	Spring	79-77	VS-718	Int.; 2.0280" Free Height
16	Spring	76-71	VS-718	2.0280" Free Height
16	Spring	76-69	VS-661	Int. & Exh.; Incl. damper; 2.0460" Free Height
16	Spring	70	VS-718	From 4/24/70; 2.0280" Free Height
16	Spring	70	VS-707	To 4/23/70; Incl. damper; 2.0730" Free Height
16	Spring	69	VS-707	Incl. damper; 2.0730" Free Height
8	Spring, Bulk	90-80	VS-919B	Exh.; Carton of 300; 1.9000" Free Height
8	Spring, Bulk	90-80	VS-718B	Int.; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	79-77	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	79-77	VS-718B	Int.; Carton of 250; 2.0280" Free Height
16	Spring, Bulk	76-71	VS-718B	Carton of 250; 2.0280" Free Height
16	Spring, Bulk	70	VS-718B	From 4/24/70; Carton of 250; 2.0280" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-69	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	83-69	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	90-87	MV-1888C	Int.; Positive type; Viton®
16	Valve Stem Seal	90-69	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	86	MV-1888C	Int.; From 7/2/86; Positive type; Viton®
16	Valve Stem Seal Bulk	90-87	MV-1888	Int.; Positive type; Carton of 50; Viton®
16	Valve Stem Seal Bulk	90-69	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-69	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	86	MV-1888	Int.; From 7/2/86; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-75	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-75	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	90-75	245-1875-6 Std Only	1.8800" OD, 1.6250" ID, .2160" Depth
8	Exh.	74-69	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	74-69	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	74-69	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-69	VK-115	1 groove; Square cut key groove
32	Keeper	90-69	VK-115R	1 groove; Square cut key groove; Hardened

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# Ford Car

5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 **51**

VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper, Bulk	90-69	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-69	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	90-69	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
8	Rotocap	80-77	<b>RC-140</b>	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-77	<b>463P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Cast Piston	90-77	<b>H653CP</b> Std-20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	90-77	<b>H653P</b> Std-20-30-40-60-80	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong
8	Cast Piston	76-72	<b>416P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston	71-69	<b>416P</b> Std-20-30-40-60	VIN Code "H"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston	71-69	<b>336P</b> Std-20-30-40	VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.719" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston - Individual	90-77	<b>W463P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Cast Piston - Individual	90-77	<b>WH653P</b> Std-20-30-40-60-80	Hypereutectic; Use w/WE-251KC, WE-251K or WE-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong
8	Cast Piston - Individual	76-72	<b>W416P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston - Individual	71-69	<b>W416P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston - Individual	71-69	<b>W336P</b> Std-20-30-40	VIN Code "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.719" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-77	<b>8K463P30</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-77	<b>8X463P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Powerforged	90-77	<b>L-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep.
8	Powerforged	72-70	<b>L-2378F30</b> 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.736" CD, .9123" Pin Dia., Recessed Head .160" deep.
8	Powerforged	69	<b>L-2378F30</b> 30-40	VIN Code "H"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.736" CD, .9123" Pin Dia., Recessed Head .160" deep.
8	Forged Piston - Individual	90-77	<b>WL-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-69	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-69	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-69	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-69	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-69	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-69	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-69	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	90-69	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	90-69	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-77	<b>5078M</b> Std-1-10-20-30-40	
1	Main Set	90-77	<b>7154M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-77	<b>5078MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>

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# Ford Car

**51 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69**  
 (cont.) VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71

QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1		(cont.) Main Set	76-69	<b>5107M</b> Std-1-10-20-30-40		
1		Rod Set	90-69	<b>8-3380CPA</b> Std-1-10-20-30-40		
1		Rod Set	90-69	<b>8-3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
1		Rod Set	90-69	<b>8-3380A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore	
1		Rod Set	90-69	<b>8-3380CPA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore	
8		Rod Pair	90-69	<b>3380CPA</b> Std-1-10-20-30-40		
8		Rod Pair	90-69	<b>3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
1		Cam Set	90-69	<b>1204M</b> Std-10	Babbitt material; Full round design	
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1		Oil Pump	90-69	<b>224-41143</b>		
1		Oil Pump	90-69	<b>224-41143V</b>	High Volume, check pan for clearance	
1		Inter. Shaft	90-69	<b>224-61143</b>		
1		Screen Assy.	90-80	<b>224-12143</b>		
1		Screen Assy.	79	<b>224-11143</b>	Cougar & Thunderbird	
1		Screen Assy.	79	<b>224-12143</b>	Exc. Cougar & Thunderbird	
1		Screen Assy.	78-69	<b>224-11143</b>		
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION	
1		Kit Gasket Set	90-88	<b>260-1446</b>	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	87	<b>260-1446</b>	From 5/30/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	87	<b>260-1170</b>	To 5/29/87; Valve stem seals not incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	86	<b>260-1170</b>	Valve stem seals from 7/22/86 not incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	85-84	<b>260-1170</b>	Premium valve stem seals incl.	
1		Kit Gasket Set	83	<b>260-1170</b>	From 7/11/83; Premium valve stem seals incl.	
1		Kit Gasket Set	83	<b>260-1126</b>	To 7/10/83; Premium valve stem seals incl.	
1		Kit Gasket Set	82-77	<b>260-1126</b>	Premium valve stem seals incl.	
1		Kit Gasket Set	76	<b>260-1126</b>	Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	75	<b>260-1126</b>	Valve stem seals not incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	74	<b>260-1028</b>	Thermactor Emission int. manifold gskts. not incl.; Premium valve stem seals incl.	
1		Kit Gasket Set	73-69	<b>260-1028</b>	Premium valve stem seals incl.	
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1		Brass Block Plug Kit	90-69	<b>381-8015</b>		
1		Steel Block Plug Kit	90-69	<b>381-4010</b>		
RE-RING KIT		YEARS	DESCRIPTION		<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
	90-88		Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6116</b> <b>205-6116M</b>	<b>205-1116</b> <b>205-1116M</b>
	87		From 5/30/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6116</b> <b>205-6116M</b>	<b>205-1116</b> <b>205-1116M</b>
	87		To 5/29/87; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-761</b> <b>205-761M</b>	<b>205-261</b> <b>205-261M</b>
	86		Valve stem seals from 7/22/86 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-761</b> <b>205-761M</b>	<b>205-261</b> <b>205-261M</b>
	85-84		Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-761</b> <b>205-761M</b>	<b>205-261</b> <b>205-261M</b>
	83		To 7/10/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-627A</b> <b>205-627AM</b>	<b>205-127A</b> <b>205-127AM</b>
	83		From 7/11/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-761</b> <b>205-761M</b>	<b>205-261</b> <b>205-261M</b>
	82-77		Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-627A</b> <b>205-627AM</b>	<b>205-127A</b> <b>205-127AM</b>
	76		Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-627M</b>	<b>205-127M</b>
	76		Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-627A</b>	<b>205-127A</b>

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<b>RE-RING KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
75	Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-627M	205-127M
75	Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-627A	205-127A
74	Thermactor Emission int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-625 205-625M	205-125 205-125M
73-69	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-625 205-625M	205-125 205-125M
<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
90-88	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6116A MK-6116A	MKP-1116A MK-1116A
90-88	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-6116A 505-6116A	----- 505-1116A
90-88	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6167	-----
90-88	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6167	-----
87	From 5/30/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6116A MK-6116A	MKP-1116A MK-1116A
87	From 5/30/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-6116A 505-6116A	----- 505-1116A
87	From 5/30/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6167	-----
87	From 5/30/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6167	-----
87	To 5/29/87; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
87	To 5/29/87; Valve stem seals not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
86	Valve stem seals from 7/22/86 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-761A MK-761A	MKP-261A MK-261A
86	Valve stem seals from 7/22/86 not incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761A 505-761A	----- 505-261A
86	Valve stem seals from 7/22/86 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
86	Valve stem seals from 7/22/86 not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
85	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
85	Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
85-84	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-761A MK-761A	MKP-261A MK-261A
85-84	Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761A 505-761A	----- 505-261A

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# Ford Car

**51 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69**  
 (cont.) VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71

OVERHAUL KIT (cont.)			PREMIUM	ECONOMY
YEARS	DESCRIPTION		KIT NO.	KIT NO.
84	From 3/21/84; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
84	From 3/21/84; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
84	To 3/20/84; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-761D MK-761D	MKP-261D MK-261D
84	To 3/20/84; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761D 505-761D	----- 505-261D
83	To 7/10/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
83	To 7/10/83; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
83	To 7/10/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-627D MK-627D	MKP-127D MK-127D
83	To 7/10/83; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627D 505-627D	----- 505-127D
83	From 7/11/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-761A MK-761A	MKP-261A MK-261A
83	From 7/11/83; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761A 505-761A	----- 505-261A
83	From 7/11/83; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-761D MK-761D	MKP-261D MK-261D
83	From 7/11/83; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761D 505-761D	----- 505-261D
82-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
82-80	Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
82-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-627D MK-627D	MKP-127D MK-127D
82-80	Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627D 505-627D	----- 505-127D
79-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
79-77	Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
76	Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627A MK-627A	MKP-127A MK-127A
76	Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-627A	505-127A
75	Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627A MK-627A	MKP-127A MK-127A
75	Valve stem seals not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-627A	505-127A
74	Thermactor Emission int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625C MK-625C	MKP-125C MK-125C
74	Thermactor Emission int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625C	505-125C
73	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625C MK-625C	MKP-125C MK-125C
73	Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625C	505-125C

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# Ford Car

## 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 51

VIN Codes "C" 1995-96 (Cobra), "G" 1980-91, "H" 1969-79, "M" 1969-71 (cont.)

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	72	To 5/1/72; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625A MK-625A	MKP-125A MK-125A
	72	To 5/1/72; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625A	505-125A
	72	From 5/2/72; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625C MK-625C	MKP-125C MK-125C
	72	From 5/2/72; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625C	505-125C
	71-70	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625A MK-625A	MKP-125A MK-125A
	71-70	VIN Code "H"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625A	505-125A
	71-70	VIN Code "M"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-625D	MKP-125D
	71-70	VIN Code "M"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625D	505-125D
	69	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-625A MK-625A	MKP-125A MK-125A
	69	VIN Code "H"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625A	505-125A
	69	VIN Code "M"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-625D	MKP-125D
	69	VIN Code "M"; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-625D	505-125D

## 5.8L 352 OHV V8, 4" Bore 1967-58 52

VIN Codes "H" 1958-61, "R" 1960-61, "X" 1960-67, "Y" 1960

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	3 Piece Set	66-64	KT3-494SA1	Incl. (1) 222-494, (1) 223-321, (1) 223-396	
1	3 Piece Set	63-58	KT3-494SA4	Incl. (1) 222-494, (1) 223-284, (1) 223-321		
1	Timing Chain	66-58	222-494	48 Links		
1	Crank Sprocket	66-58	223-321	18 Teeth		
1	Cam Sprocket	66-64	223-396	Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth		
1	Cam Sprocket	63-58	223-284	36 Teeth		
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	66-63	CS-443	Hyd.	
16	Lifter	66-64	HT-2083 Std Only	Hyd.		
16	Lifter	63-61	HT-2083 Std Only	Hyd.		
16	Lifter	63-61	AT-872 Std Only	Mech.		
16	Lifter	60-58	HT-2083 Std Only	Hyd.		
16	Lifter, Bulk	66-64	HT-2083B Std Only	Hyd.; Carton of 122		
16	Lifter, Bulk	63-61	HT-2083B Std Only	Hyd.; Carton of 122		
16	Lifter, Bulk	63-61	AT-872B Std Only	Mech.; Carton of 122		
16	Lifter, Bulk	60-58	HT-2083B Std Only	Hyd.; Carton of 122		
1	Prelube	66-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	66-63	KC-443	Hyd.; Incl. (1) CS-443, (16) HT-2083, (1) 55-403B	
1	Cam/Lifter Kit	62-58	KC-169	Hyd.; Incl. (1) CS-169, (16) HT-2083, (1) 55-403B		
V A L V E T R A I N	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	16	Push Rod	66-58	RP-3172B	w/Hyd. lifters; Ball & ball type ends; 9.5600" O.A.L.	
16	Push Rod	66-58	RP-3172	w/Hyd. lifters; Ball & ball type ends; 9.6210" O.A.L.		
16	Push Rod	66-58	RP-3172A	w/Hyd. lifters; Ball & ball type ends; 9.6800" O.A.L.		
16	Push Rod	66-58	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.		
16	Push Rod	66-58	RP-3230R	Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.		
16	Push Rod	66-58	RP-3172C	Eng. w/Hyd. lifters, ball type ends, 9.59" O.A.L.; 9.5910" O.A.L.		
16	Push Rod	65-64	RP-3023	w/Mech. lifters; Ball & cup type ends; 9.5300" O.A.L.		
16	Push Rod	61	RP-3023	VIN Codes "H", "R" & "X"; w/Mech. lifters; Ball & cup type ends; 9.5300" O.A.L.		
16	Push Rod	60	RP-3023	VIN Codes "H", "R" & "Y"; w/Mech. lifters; Ball & cup type ends; 9.5300" O.A.L.		
16	Push Rod	58	RP-3023	w/Hyd. lifters; Ball & cup type ends; 9.5300" O.A.L.		

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# Ford Car

**52 5.8L 352 OHV V8, 4" Bore 1967-58**  
 (cont.) VIN Codes "H" 1958-61, "R" 1960-61, "X" 1960-67, "Y" 1960

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod, Bulk	66-58	<b>BRP-3172B</b>	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	66-58	<b>BRP-3172</b>	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	66-58	<b>R-814</b>	w/Hyd. lifters
16	Arm	66-58	<b>R-821</b>	w/Mech. lifters
2	Rocker Shaft	66-58	<b>RS-621</b>	w/Hyd. lifters
2	Rocker Shaft	66-58	<b>RS-720</b>	w/Mech. lifters
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	66-58	<b>V-1853</b> Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	66-58	<b>V-1853B</b> Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	66-64	<b>V-1809</b> Std-3	VIN Code "X"; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	63-61	<b>V-1539</b> Std-15	VIN Code "X"; 2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake	61	<b>V-1809</b> Std-3	VIN Codes "H", "R" & "X"; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake, Bulk	63-61	<b>V-1539B15</b> 15	VIN Code "X"; Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	66-61	<b>VS-1428</b>	2.3430" Free Height
16	Spring	60	<b>VS-1428</b>	VIN Code "X"; 2.3430" Free Height
16	Spring	59-58	<b>VS-1428</b>	2.3430" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	66-58	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	66-58	<b>ST-2014</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	66-58	<b>MV-1775C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	66-58	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	66-58	<b>MV-1775</b>	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	66-58	<b>ST-2014BC</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	66-58	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	66-58	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	66-58	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	66-58	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	66-58	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	66-58	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	66-58	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	66-58	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	66-58	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	66-61	<b>246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston	60	<b>246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston	59-58	<b>246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual	66-61	<b>W246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual	60	<b>W246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual	59-58	<b>W246NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Pin Bushing	65-61	<b>2304V</b>	Split type bushing
8	Pin Bushing	65-61	<b>2304V20</b>	Split type bushing; w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	66-58	<b>E-248K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16
1	Standard Set	66-58	<b>E-248X</b> Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Premium Single Cylinder Set	66-58	<b>WE-248K</b> Std-30	1-5/64, 1-3/32, 1-3/16
8	Standard Single Cylinder Set	66-58	<b>WE-248X</b> Std-30-40	1-5/64, 1-3/32, 1-3/16

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# Ford Car

**5.8L 352 OHV V8, 4" Bore 1967-58 52**

VIN Codes "H" 1958-61, "R" 1960-61, "X" 1960-67, "Y" 1960 (cont.)

QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	66-58	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
1	Repair Sleeve	65-64	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	66-64	4261M Std-1-10-20-30-40-50-60	3.824" max. flange OD	
1	Main Set	63-58	4020M Std-10	3.684" max. flange OD	
1	Rod Set	66-58	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable	
1	Rod Set	66-58	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.	
1	Rod Set	66-58	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.	
8	Rod Pair	66-58	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.	
1	Cam Set	66-58	1445M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	66-58	224-41173		
1	Oil Pump	66-58	224-41177	High Volume, check pan for clearance	
1	Inter. Shaft	66-58	224-61114		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	67-58	260-1035	Closed heat passage int. manifold gskts. not incl.; Exh. pipe flange not incl.; Exh. heat shields not incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	67-58	381-8017		
1	Steel Block Plug Kit	67-58	381-4015		
RE-RING KIT					
YEARS	DESCRIPTION				PREMIUM KIT NO.
66-58	Closed heat passage int. manifold gskts. not incl.; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng's.	Re-ring			205-890
					ECONOMY KIT NO. 205-390

**5.9L 361 OHV V8, 4.05" Bore 1959-58 53**

VIN Code "W" 1958-59

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	3 Piece Set	59-58	KT3-494SA4	Incl. (1) 222-494, (1) 223-284, (1) 223-321	
1	Timing Chain	59-58	222-494	48 Links	
1	Crank Sprocket	59-58	223-321	18 Teeth	
1	Cam Sprocket	59-58	223-284	36 Teeth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
16	Lifter	59-58	HT-2083 Std Only	Hyd.	
16	Lifter, Bulk	59-58	HT-2083B Std Only	Hyd.; Carton of 122	
1	Prelube	59-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	59-58	KC-169	Hyd.; Incl. (1) CS-169, (16) HT-2083, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	59-58	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.	
16	Push Rod	59-58	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.	
16	Push Rod	59-58	RP-3172	Ball & ball type ends; 9.6210" O.A.L.	
16	Push Rod	59-58	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.	
16	Push Rod	59-58	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.	
16	Push Rod, Bulk	59-58	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
16	Push Rod, Bulk	59-58	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm	59-58	R-814		
2	Rocker Shaft	59-58	RS-621		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
8	Exhaust	59-58	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	
8	Exhaust, Bulk	59-58	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	59-58	VS-1428	2.3430" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	59-58	ST-2002	Installation requires valve guide machining; Polyacrylate	
16	Valve Stem Seal Bulk	59-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	

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# Ford Car

## 53 5.9L 361 OHV V8, 4.05" Bore 1959-58

(cont.) VIN Code "W" 1958-59

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	59-58	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	59-58	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	59-58	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	59-58	VK-138	1 groove; Square cut key groove
32	Keeper	59-58	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	59-58	VK-138B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	59-58	E-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
1	Standard Set	59-58	E-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Premium Single Cylinder Set	59-58	WE-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Standard Single Cylinder Set	59-58	WE-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	59-58	260-1035	Closed heat passage int. manifold gskts. not incl.; Exh. pipe flange not incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	59-58	381-8017	
1	Steel Block Plug Kit	59-58	381-4015	

## 54 6.0L 368 OHV V8 (Lincoln), 4" Bore 1957-56

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	57-56	HT-2083 Std Only	Hyd.
16	Lifter, Bulk	57-56	HT-2083B Std Only	Hyd.; Carton of 122
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	57-56	VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
8	Guide	57-56	VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	57-56	VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	57-56	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	57-56	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	57-56	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	57-56	MV-1599	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	57-56	VK-115	1 groove; Square cut key groove
16	Keeper	57-56	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	57-56	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	57-56	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	57-56	1834V	1.306" max. length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	57-56	E-248K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16
1	Standard Set	57-56	E-248X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Premium Single Cylinder Set	57-56	WE-248K Std-30	1-5/64, 1-3/32, 1-3/16
8	Standard Single Cylinder Set	57-56	WE-248X Std-30-40	1-5/64, 1-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	57-56	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	57-56	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	57-56	1835CPA Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	57-56	224-41123	
1	Pump Repair Kit	57-56	224-51297	Rotor type

## 55 6.3L 383 OHV V8 (Mercury), 4.2969" Bore 1960-58

VIN Codes "M" 1958-59, "N" 1959-60

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	60-58	222-491	52 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	60-58	HT-2083 Std Only	Hyd.
16	Lifter, Bulk	60-58	HT-2083B Std Only	Hyd.; Carton of 122
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	60-58	VG-5007	Exh.; .3725" ID, 2.3800" O.A.L.
8	Guide	60-58	VG-5007T	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
8	Guide	60-58	VG-5008	Int.; .3725" ID, 2.7500" O.A.L.

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## 6.3L 383 OHV V8 (Mercury), 4.2969" Bore 1960-58 **55**

VIN Codes "M" 1958-59, "N" 1959-60 (cont.)

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Guide	60-58	VG-5076T	Int.; Threaded; .3740" ID, 2.8750" O.A.L.
8	Guide, Bulk	60-58	VG-5007B	Exh.; Carton of 50; .3725" ID, 2.3800" O.A.L.
8	Guide, Bulk	60-58	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
8	Guide, Bulk	60-58	VG-5008B	Int.; Carton of 50; .3725" ID, 2.7500" O.A.L.
8	Guide, Bulk	60-58	VG-5076TB	Int.; Threaded; Carton of 50; .3740" ID, 2.8750" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	60-58	ST-2002	Installation requires valve guide machining; Polyacrylate
8	Valve Stem Seal	60-58	MV-1775C	Exh.; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	60-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
8	Valve Stem Seal Bulk	60-58	MV-1775	Exh.; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	60-58	VK-138	1 groove; Square cut key groove
32	Keeper	60-58	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	60-58	VK-138B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	60-58	E-183X Std Only	1-5/64, 1-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	60-58	2305CP Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	60-58	224-41173	
1	Oil Pump	60-58	224-43365A	High Pressure
1	Oil Pump	60-58	224-41177	High Volume, check pan for clearance
1	Inter. Shaft	60-58	224-61114	

## 6.4L 390 OHV V8, 4.05" Bore 1971-61 **56**

VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	71-63	KT3-494SA1	Incl. (1) 222-494, (1) 223-321, (1) 223-396
1	3 Piece Set	63	KT3-494SA4	VIN Codes "9", "P" & "Z"; Incl. (1) 222-494, (1) 223-284, (1) 223-321
1	3 Piece Set	62-61	KT3-494SA4	Incl. (1) 222-494, (1) 223-284, (1) 223-321
1	Timing Chain	71-61	222-494	48 Links
1	Crank Sprocket	71-61	223-321	18 Teeth
1	Cam Sprocket	71-64	223-396	Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth
1	Cam Sprocket	63	223-284	Club, Country Sedan, Country Squire, Galaxie, Ranch Wagon, Sunliner; 36 Teeth
1	Cam Sprocket	63	223-396	Thunderbird, Colony Park, Commuter, Marauder & Monterey; Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth
1	Cam Sprocket	62-61	223-284	Club, Country Sedan, Country Squire, Galaxie, Ranch Wagon, Sunliner, Victoria; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	71-70	CS-643	
1	Camshaft	69	CS-642	VIN Code "Z"
1	Camshaft	69	CS-643	VIN Codes "X" & "Y"
1	Camshaft	68	CS-642	VIN Codes "S" & "Z"
1	Camshaft	68-67	CS-643	VIN Codes "H", "X" & "Y"
1	Camshaft	67-66	CS-642	VIN Codes "P", "S" & "Z"
1	Camshaft	66	CS-443	VIN Code "Y"; Hyd.
1	Camshaft	65-63	CS-443	Hyd.
16	Lifter	71-61	HT-2083 Std Only	Hyd.
16	Lifter	71-61	AT-872 Std Only	Mech.
16	Lifter, Bulk	71-61	HT-2083B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	71-61	AT-872B Std Only	Mech.; Carton of 122
1	Prelube	71-61	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	71-70	KC-643	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	69	KC-642	VIN Code "Z"; Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	69	KC-643	VIN Codes "X" & "Y"; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B

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**56 6.4L 390 OHV V8, 4.05" Bore 1971-61**  
 (cont.) VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

VALVE TRAIN

VALVE TRAIN

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	68	KC-642	VIN Codes "S" & "Z"; Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-643	VIN Codes "H", "X" & "Y"; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	67-66	KC-642	VIN Codes "P", "S" & "Z"; Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	66	KC-443	VIN Code "Y"; Hyd.; Incl. (1) CS-443, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	65-63	KC-443	Hyd.; Incl. (1) CS-443, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	62-61	KC-169	Hyd.; Incl. (1) CS-169, (16) HT-2083, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-70	KCT-643	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	69	KCT-643	VIN Codes "X" & "Y"; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	68-67	KCT-643	VIN Codes "H", "X" & "Y"; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	71-66	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	71-66	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	71-66	RP-3172	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	71-66	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	71-66	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod	65	RP-3227R	w/Hyd. lifters; Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	65	RP-3172B	w/Hyd. lifters; Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	65	RP-3172	w/Hyd. lifters; Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	65	RP-3172A	w/Hyd. lifters; Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	65-61	RP-3172C	w/Hyd. lifters; 9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod	65-61	RP-3230R	w/Mech. lifters; Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.
16	Push Rod	65-61	RP-3023	w/Mech. lifters; Ball & cup type ends; 9.5300" O.A.L.
16	Push Rod	64	RP-3059	To 12/23/63; w/Hyd. lifters; 9.7700" O.A.L.
16	Push Rod	64-63	RP-3227R	w/Hyd. lifters; Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	64-63	RP-3172B	w/Hyd. lifters; Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	64-63	RP-3172	w/Hyd. lifters; Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	64-63	RP-3172A	w/Hyd. lifters; Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	63	RP-3059	w/Hyd. lifters; 9.7700" O.A.L.
16	Push Rod	62-61	RP-3227R	w/Hyd. lifters; Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	62-61	RP-3172B	w/Hyd. lifters; Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	62-61	RP-3172	w/Hyd. lifters; Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	62-61	RP-3172A	w/Hyd. lifters; Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod, Bulk	71-66	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	71-66	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
16	Push Rod, Bulk	65	BRP-3172B	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	65	BRP-3172	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
16	Push Rod, Bulk	64-63	BRP-3172B	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	64-63	BRP-3172	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
16	Push Rod, Bulk	62-61	BRP-3172B	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	62-61	BRP-3172	w/Hyd. lifters; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	71-61	R-821	Adj.
16	Arm	71-61	R-814	Non-Adj.
2	Rocker Shaft	71-61	RS-621	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	71-61	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	71-61	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	71-61	V-1809 Std-3	Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	71-61	V-1539 Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.

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# Ford Car

**6.4L 390 OHV V8, 4.05" Bore 1971-61 56**

VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" (cont.) 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	71-61	<b>V-1539B15</b> 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	71-61	<b>VG-5007</b>	Exh. & Int.; .3725" ID, 2.3800" O.A.L.
16	Guide	71-61	<b>VG-5007T</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	71-61	<b>VG-5007B</b>	Exh. & Int.; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	71-61	<b>VG-5007TB</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	71-66	<b>VS-682</b>	Incl. damper; 2.1200" Free Height
16	Spring	65-63	<b>VS-682</b>	VIN Code "M"; Incl. damper; 2.1200" Free Height
16	Spring, Bulk	71-66	<b>VS-682B</b>	Incl. damper; Carton of 200; 2.1200" Free Height
16	Spring, Bulk	65-63	<b>VS-682B</b>	VIN Code "M"; Incl. damper; Carton of 200; 2.1200" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	71-61	<b>ST-2014</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	71-61	<b>ST-2002</b>	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	71-70	<b>MV-1775C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal	69-68	<b>MV-1775C</b>	Exc. VIN Code "S"; Umbrella type; Polyacrylate
16	Valve Stem Seal	67-66	<b>MV-1775C</b>	Exc. VIN Codes "M" & "S"; Umbrella type; Polyacrylate
16	Valve Stem Seal	65-61	<b>MV-1775C</b>	Exc. VIN Code "M"; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	71-70	<b>MV-1775</b>	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	71-61	<b>ST-2014BC</b>	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	71-61	<b>ST-2002BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	69-68	<b>MV-1775</b>	Exc. VIN Code "S"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	67-66	<b>MV-1775</b>	Exc. VIN Codes "M" & "S"; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	65-61	<b>MV-1775</b>	Exc. VIN Code "M"; Umbrella type; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	71-61	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	71-61	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	71-61	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	71-61	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	71-61	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	71-61	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	71-61	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	71-61	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	71-61	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	71-61	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	71-61	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	71	<b>381P +</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use 381NP
8	Cast Piston	71	<b>381NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets
8	Cast Piston	70-61	<b>H304P</b> Std-20-30-40-60	Hypereutectic; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.759" CD, .9751" Pin Dia., Recessed Head .080" deep x 3.220" dia. w/4 valve reliefs
8	Cast Piston - Individual	71	<b>W381P +</b> Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use W381NP
8	Cast Piston - Individual	71	<b>W381NP *</b> Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets
8	Cast Piston - Individual	70-61	<b>WH304P</b> Std-20-30-40-60	Hypereutectic; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.759" CD, .9751" Pin Dia., Recessed Head .080" deep x 3.220" dia. w/4 valve reliefs
8	Powerforged	69	<b>L-2291F</b> Std-20-30-40-60	VIN Code "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# Ford Car

**56 6.4L 390 OHV V8, 4.05" Bore 1971-61**  
 (cont.) VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Powerforged	68	<b>L-2291F</b> Std-20-30-40-60	VIN Codes "S" & "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	67-66	<b>L-2291F</b> Std-20-30-40-60	VIN Codes "P", "S" & "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	69	<b>WL-2291F</b> Std-20-30-40-60	VIN Code "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68	<b>WL-2291F</b> Std-20-30-40-60	VIN Codes "S" & "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	67-66	<b>WL-2291F</b> Std-20-30-40-60	VIN Codes "P", "S" & "Z"; Powerforged; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.776" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin Bushing	71-64	<b>2304V</b>	Split type bushing
8	Pin Bushing	71-64	<b>2304V20</b>	Split type bushing; w/.020" extra bore stock
8	Pin Bushing	63-61	<b>2304V</b>	Split type bushing
8	Pin Bushing	63-61	<b>2304V20</b>	Split type bushing; w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	71-61	<b>E-180K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
1	Premium Set	71-61	<b>E-260K</b> Std Only	2-5/64, 1-3/16; Check piston grooving before using
1	Standard Set	71-61	<b>E-180X</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Premium Single Cylinder Set	71-61	<b>WE-180K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Standard Single Cylinder Set	71-61	<b>WE-180X</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	71-61	<b>SL-197M</b> Std Only	3/32" wall, cut to length; Press fit sleeve
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	71-61	<b>4261M</b> Std-1-10-20-30-40-50-60	3.824" max. flange OD
1	Main Set	63-61	<b>4020M</b> Std-10	3.684" max. flange OD
1	Rod Set	71-61	<b>8-3230CP</b> Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	71-61	<b>8-3230CP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng.
1	Rod Set	71-61	<b>8-3230CA60</b> 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng.
8	Rod Pair	71-61	<b>3230CP</b> Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng.
1	Cam Set	71-61	<b>1445M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	71-69	<b>224-41173</b>	
1	Oil Pump	71-69	<b>224-41177</b>	High Volume, check pan for clearance
1	Oil Pump	71-66	<b>224-43365A</b>	High Pressure
1	Oil Pump	68	<b>224-41173</b>	Exc. VIN Code "S"
1	Oil Pump	68	<b>224-41169</b>	VIN Code "S"
1	Oil Pump	68-61	<b>224-41177</b>	High Volume, check pan for clearance
1	Oil Pump	67-66	<b>224-41173</b>	Exc. VIN Codes "M" & "S"
1	Oil Pump	67-66	<b>224-41169</b>	VIN Codes "M" & "S"
1	Oil Pump	65-61	<b>224-41173</b>	Exc. VIN Code "M"
1	Oil Pump	65-61	<b>224-41169</b>	VIN Code "M"
1	Inter. Shaft	71-61	<b>224-61114</b>	
1	Screen Assy.	71-66	<b>224-14158</b>	
1	Screen Assy.	65-61	<b>224-14159</b>	Exc. VIN Code "M"
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	71-61	<b>260-1035</b>	Exh. pipe flange not incl.; Exh. heat shields not incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	71-61	<b>381-8017</b>	
1	Steel Block Plug Kit	71-61	<b>381-4015</b>	
YEARS	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
71-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.; Check piston grooving before using ring set	Re-ring	<b>205-601</b>	<b>205-101</b>
71-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains	<b>205-601M</b>	<b>205-101M</b>

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# Ford Car

6.4L 390 OHV V8, 4.05" Bore 1971-61 **56**

VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" (cont.) 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

<b>RE-RING KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set	Re-ring	205-601	205-101
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains	205-601M	205-101M
65-61	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set	Re-ring	205-601	205-101
65-61	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains	205-601M	205-101M
<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
71	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601C	MK-101C
71	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601F	MKP-101F
71	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601F	MK-101F
70	Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601C	MKP-101C
70	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601C	MK-101C
70	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601D	MKP-101D
69	VIN Codes "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601C	MKP-101C
69	VIN Codes "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601C	MK-101C
69	VIN Codes "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601D	MKP-101D
69	VIN Code "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601E	MK-101E
69	VIN Code "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master	MKP-601E	MKP-101E

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# Ford Car

**56 6.4L 390 OHV V8, 4.05" Bore 1971-61**  
 (cont.) VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
68	VIN Codes "S" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601E	MK-101E
68	VIN Codes "S" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master	MKP-601E	MKP-101E
68-67	VIN Codes "H", "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master	MKP-601C	MKP-101C
68-67	VIN Codes "H", "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601C	MK-101C
68-67	VIN Codes "H", "X" & "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master	MKP-601D	MKP-101D
67	VIN Codes "P", "S" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master	MKP-601E	MKP-101E
67-66	VIN Codes "P", "S" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601E	MK-101E
66	VIN Codes "P", "S" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master	MKP-601E	MKP-101E
66	VIN Code "Y"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601L	MK-101L
65	Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601L	MK-101L
64	Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons	MK-601L	MK-101L
63	VIN Codes "9", "P" & "Z"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	MK-601J	MK-101J
63	VIN Code "M"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	MK-601K	MK-101K
62	Exc. VIN Code "M"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	MK-601G	MK-101G

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# Ford Car

## 6.4L 390 OHV V8, 4.05" Bore 1971-61 **56**

VIN Codes "H" 1964-69, "M" 1961-67, "P" 1963-67, "Q" 1961-62, "R" 1961-62, "S" 1966-70 (GT), "X" (cont.) 1967-70, "Y" 1964-71, "Z" 1961-68, "9" 1963-65

K I T S	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	K I T S
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	62	Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	<b>MK-601H</b>	<b>MK-101H</b>
	61	Exc. VIN Code "M"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	<b>MK-601G</b>	<b>MK-101G</b>
	61	Exh. pipe flange not incl.; Exh. heat shields not incl.; Hyd. lifters incl.; Squirt hole removed from all Ford V Eng.s.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.684" max. brg. flange OD	Master w/o Pistons	<b>MK-601H</b>	<b>MK-101H</b>

## 6.6L 400 OHV V8, 4" Bore 1979-71 **57**

VIN Code "S" 1971-79

V A L V E  T R A I N	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	V A L V E  T R A I N
		1	3 Piece Set	79-73	<b>KT3-498SA2</b>	
	1	3 Piece Set	72-71	<b>KT3-494SA2</b>	Incl. (1) 222-494, (1) 223-420A, (1) 223-493	
	1	Timing Chain	79-73	<b>222-498</b>	48 Links	
	1	Timing Chain	72-71	<b>222-494</b>	48 Links	
	1	Crank Sprocket	79-73	<b>223-475</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-475; 18 Teeth	
	1	Crank Sprocket	72-71	<b>223-493</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth	
	1	Cam Sprocket	72-71	<b>223-420A</b>	36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	79-71	<b>CS-667</b>	Hyd.	
	16	Lifter	79-71	<b>HT-900</b> Std Only	Hyd.; Carton of 122	
	16	Lifter, Bulk	79-71	<b>HT-900B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	1	Prelube	79-71	<b>55-400</b>		
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	79-71	<b>KC-667</b>	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	79-73	<b>KCT-667A</b>	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-498SA2, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	72-71	<b>KCT-667</b>	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B	
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Push Rod	79-71	<b>RP-3186</b>	9.5000" O.A.L.	
	16	Push Rod, Bulk	79-71	<b>BRP-3186</b>	Carton of 100; 9.5000" O.A.L.	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Arm Assy.	79-71	<b>R-855</b>	Incl. arm & pivot	
	16	Arm Assy., Bulk	79-71	<b>R-855B</b>	Incl. arm & pivot; Carton of 64	
	16	Arm	79-71	<b>R-855A</b>		
	16	Bolt	79-71	<b>MR-1951</b>	5/16" X 18 UNC w/o washer	
	16	Pivot	79-71	<b>MR-1811</b>		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Exhaust	79-78	<b>V-2095</b> Std-15	Chrome plated stem; 1.6560" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.	
	8	Exhaust	77-71	<b>V-2030</b> Std-15	4 groove; Chrome plated stem; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.	
	8	Exhaust, Bulk	79-78	<b>V-2095B15</b> 15	1 groove; Chrome plated stem; Carton of 25; 1.6545" Head Dia., .3564" Stem Dia., 5.0500" O.A.L.	
	8	Exhaust, Bulk	77-71	<b>V-2030B</b> Std-15	4 groove; Chrome plated stem; Carton of 25; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.	
	8	Intake	79	<b>V-2142</b> Std-15	1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.	
	8	Intake	78-71	<b>V-2075</b> Std-15	4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.	
	8	Intake, Bulk	79	<b>V-2142B15</b> 15	1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.	
	8	Intake, Bulk	78-71	<b>V-2075B</b> Std-15	4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.	

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# Ford Car

**57 6.6L 400 OHV V8, 4" Bore 1979-71**  
 (cont.) VIN Code "S" 1971-79

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	79-71	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	79-71	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	79-78	VS-1435	Exh.; 1.9650" Free Height
8	Spring	79-78	VS-703	Int.; 2.0560" Free Height
16	Spring	77-71	VS-703	Exh. & Int.; 2.0560" Free Height
8	Spring, Bulk	79-78	VS-1435B	Exh.; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	79-78	VS-703B	Int.; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	77-71	VS-703B	Exh. & Int.; Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	79-71	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	79-71	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	79-71	MV-1817C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	79-71	MV-1817	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	79-71	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	79-71	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	79-71	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	79-71	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	79-77	VK-115	1 groove; Square cut key groove
32	Keeper	79-77	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	79-77	VK-205	4 groove
32	Keeper	79-77	VK-205R	4 groove; Hardened
32	Keeper	76-71	VK-205	4 groove
32	Keeper	76-71	VK-205R	4 groove; Hardened
32	Keeper, Bulk	79-77	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	79-71	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	79-71	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	79-71	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	79-71	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	79-71	259-103ARS	.060"; ID 1.030"; Carton of 500
8	Rotocap	79-71	RC-140	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	79-71	427P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Cast Piston - Individual	79-71	W427P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	79-71	8K427P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	79-71	8X427P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-71	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	79-71	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-71	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-71	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-71	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	79-71	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	79-71	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
1	Repair Sleeve	79-71	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-77	5078M Std-1-10-20-30-40	
1	Main Set	79-77	7154M10 10-20-30	.020" O/S length flange brg.
1	Main Set	79-77	5078MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	76-71	5107M Std-1-10-20-30-40	
1	Rod Set	79-71	8-3400CP Std-1-10-20-30-40	
1	Rod Set	79-71	8-3400CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair	79-71	3400CP Std-1-10-20-30-40	
1	Cam Set	79-71	1403M Std Only	Babbitt material; Full round design

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# Ford Car

6.6L 400 OHV V8, 4" Bore 1979-71 **57**

VIN Code "S" 1971-79 (cont.)

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	79-71	224-41166	High Volume, check pan for clearance
	1	Oil Pump	79-71	224-41166V	
	1	Pump Repair Kit	79-71	224-51139	
	1	Inter. Shaft	79-71	224-61166	
1	Screen Assy.	78-71	224-11166		
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	79-71	260-1014	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	79-75	260-4004		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	79-71	381-8016	
1	Steel Block Plug Kit	79-71	381-4018		

KITS	RE-RING KIT		YEARS	DESCRIPTION	RE-RING	PREMIUM KIT NO.	ECONOMY KIT NO.
	79-77	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring		205-624	205-124
	79-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains		205-624AM	205-124AM
	76-71	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring		205-624	205-124
				Re-ring w/Mains		205-624M	205-124M
	OVERHAUL KIT		YEARS	DESCRIPTION	MASTER	PREMIUM KIT NO.	ECONOMY KIT NO.
	79-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Master w/o Pistons		MK-624G	MK-124G
	79-77	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		505-624M	505-124M
	79-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Master		MKP-624N	MKP-124N
	76-74	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master		MKP-624M	MKP-124M
			Master w/o Pistons		MK-624M	MK-124M	
			Master w/o Rods & Mains		505-624M	505-124M	
73	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master		MKP-624M	MKP-124M	
			Master w/o Pistons		MK-624M	MK-124M	
			Master w/o Rods & Mains		505-624M	505-124M	
72-71	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		505-624P	505-124P	

6.6L 406 OHV V8, 4.125" Bore 1963-62 **58**

VIN Codes "B" 1962-63, "G" 1962-63

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	63	KT3-494SA4	Galaxie; Incl. (1) 222-494, (1) 223-284, (1) 223-321
	1	3 Piece Set	63	KT3-494SA1	
	1	3 Piece Set	62	KT3-494SA4	Exc. Mercury; Incl. (1) 222-494, (1) 223-284, (1) 223-321
	1	3 Piece Set	62	KT3-494SA1	
	1	Timing Chain	63-62	222-494	48 Links
	1	Crank Sprocket	63-62	223-321	
	1	Cam Sprocket	63	223-284	Galaxie; 36 Teeth
	1	Cam Sprocket	63	223-396	
	1	Cam Sprocket	62	223-284	Exc. Mercury; 36 Teeth
1	Cam Sprocket	62	223-396	Mercury; Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth	
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter	63-62	AT-872	Std Only Mech.
16	Lifter, Bulk	63-62	AT-872B	Std Only Mech.; Carton of 122	
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod	63-62	RP-3230R	Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.
16	Push Rod	63-62	RP-3023	Ball & cup type ends; 9.5300" O.A.L.	
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	63-62	R-821	Adj.	

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# Ford Car

**58 6.6L 406 OHV V8, 4.125" Bore 1963-62**  
 (cont.) VIN Codes "B" 1962-63, "G" 1962-63

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	63-62	V-1853 Std-15	w/C2AZ-6049A cyl. head; Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust	63-62	V-1875 Std Only	w/C2AZ-6049B cyl. head; Chrome plated stem; 1.6520" Head Dia., .3705" Stem Dia., 5.4260" O.A.L.
8	Exhaust, Bulk	63-62	V-1853B Std-15	w/C2AZ-6049A cyl. head; Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	63-62	VG-5007	Exh. & Int.; Mercury; .3725" ID, 2.3800" O.A.L.
16	Guide	63-62	VG-5007T	Exh. & Int.; Mercury; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	63-62	VG-5007B	Exh. & Int.; Mercury; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	63-62	VG-5007TB	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	63-62	VS-717	Incl. damper; 2.0260" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	63-62	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	63-62	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	63-62	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	63-62	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	63-62	245-1687-1 Std Only	w/C2AZ-6049A cyl. head; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	63-62	245-1750-2N Std Only	w/C2AZ-6049B cyl. head; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	63-62	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	63-62	245-1750-2 Std Only	W/C2AZ-6049B cyl. head; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	63-62	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	63-62	VK-138	1 groove; Square cut key groove
32	Keeper	63-62	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	63-62	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	63-62	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	63-62	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	63-62	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	63-62	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	63-62	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	63-62	2304V	Split type bushing
8	Pin Bushing	63-62	2304V20	Split type bushing; w/.020" extra bore stock
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-62	4020M Std-10	3.684" max. flange OD
1	Rod Set	63-62	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	63-62	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	63-62	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
8	Rod Pair	63-62	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.
1	Cam Set	63-62	1445M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	63-62	224-43365A	High Pressure
1	Oil Pump	63-62	224-41177	High Volume, check pan for clearance
1	Inter. Shaft	63-62	224-61114	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	63-62	260-1035	Closed heat passage int. manifold gskts. not incl.; Exh. pipe flange not incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	63-62	381-8017	
1	Steel Block Plug Kit	63-62	381-4015	

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK



# Ford Car

6.7L 410 OHV V8 (Mercury), 4.05" Bore 1967-66 **59**

VIN Code "M" 1966-67

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-66	<b>KT3-494SA1</b>	Incl. (1) 222-494, (1) 223-321, (1) 223-396
1	Timing Chain	67-66	<b>222-494</b>	48 Links
1	Crank Sprocket	67-66	<b>223-321</b>	18 Teeth
1	Cam Sprocket	67-66	<b>223-396</b>	Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	67-66	<b>CS-642</b>	Hyd.
16	Lifter	67-66	<b>HT-2083</b> Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	67-66	<b>HT-2083B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	67-66	<b>55-400</b>	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	67-66	<b>KC-642</b>	Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67-66	<b>RP-3227R</b>	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	67-66	<b>RP-3172B</b>	Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	67-66	<b>RP-3172</b>	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	67-66	<b>RP-3172A</b>	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	67-66	<b>RP-3172C</b>	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod, Bulk	67-66	<b>BRP-3172B</b>	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	67-66	<b>BRP-3172</b>	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	67-66	<b>R-814</b>	
2	Rocker Shaft	67-66	<b>RS-621</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-66	<b>V-1853</b> Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	67-66	<b>V-1853B</b> Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	67-66	<b>V-1809</b> Std-3	Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	67-66	<b>V-1539</b> Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	67-66	<b>V-1539B15</b> 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	67-66	<b>VG-5007</b>	Exh. & Int.; .3725" ID, 2.3800" O.A.L.
16	Guide	67-66	<b>VG-5007T</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	67-66	<b>VG-5007B</b>	Exh. & Int.; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	67-66	<b>VG-5007TB</b>	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-66	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	67-66	<b>MV-1775C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	67-66	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	67-66	<b>MV-1775</b>	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-66	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	67-66	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	67-66	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-66	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	67-66	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-66	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-66	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	67-66	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	67-66	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	67-66	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	67-66	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	67-66	<b>381P +</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use 381NP
8	Cast Piston	67-66	<b>381NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets
8	Cast Piston - Individual	67-66	<b>W381P +</b> Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use W381NP

VALVE TRAIN

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# Ford Car

## 59 6.7L 410 OHV V8 (Mercury), 4.05" Bore 1967-66

(cont.) VIN Code "M" 1966-67

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston - Individual	67-66	W381NP * Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets	
8	Pin Bushing	67-66	2304V	Split type bushing	
8	Pin Bushing	67-66	2304V20	Split type bushing; w/.020" extra bore stock	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	67-66	E-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using	
1	Standard Set	67-66	E-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using	
8	Premium Single Cylinder Set	67-66	WE-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using	
8	Standard Single Cylinder Set	67-66	WE-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	67-66	4261M Std-1-10-20-30-40-50-60	3.824" max. flange OD	
1	Rod Set	67-66	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng.s.; 8-3230CA 60 avail. as unplated & resizeable	
1	Rod Set	67-66	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng.s.	
1	Rod Set	67-66	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng.s.	
8	Rod Pair	67-66	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng.s.	
1	Cam Set	67-66	1445M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	67-66	224-41173		
1	Oil Pump	67-66	224-43365A	High Pressure	
1	Oil Pump	67-66	224-41177	High Volume, check pan for clearance	
1	Inter. Shaft	67-66	224-61114		
1	Screen Assy.	67	224-14158		
1	Screen Assy.	66	224-14159		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	67-66	260-1035	Exh. pipe flange not incl.; Exh. heat shields not incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	67-66	381-8017		
1	Steel Block Plug Kit	67-66	381-4015		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.s.; Check piston grooving before using ring set	Re-ring		205-601	205-101
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.s.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains		205-601M	205-101M
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD	Master w/o Pistons		MK-601E	MK-101E

## 60 6.7L 410 OHV V8 (Edsel), 4.2031" Bore 1958

VIN Code "X" 1958

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	58	4130M Std-10	Double locking lips on lower brg. halves
8	Rod Pair	58	2305CP Std-10	

## 61 7.0L 427 OHV V8, 4.2328" Bore 1969-63

VIN Codes "L" 1965-67, "M" 1965-67, "Q" 1963-65, "R" 1963-68, "W" 1966-69

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	68-63	KT3-494SA1	Incl. (1) 222-494, (1) 223-321, (1) 223-396
1	Timing Chain	68-63	222-494	48 Links
1	Crank Sprocket	68-63	223-321	18 Teeth
1	Cam Sprocket	68-63	223-396	Installation doesn't require spacer on cam nose. Older type Eng.s. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth

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# Ford Car

7.0L 427 OHV V8, 4.2328" Bore 1969-63 **61**

VIN Codes "L" 1965-67, "M" 1965-67, "Q" 1963-65, "R" 1963-68, "W" 1966-69 (cont.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	68-63	HT-2083 Std Only	Hyd.
16	Lifter	68-63	AT-872 Std Only	Mech.
16	Lifter, Bulk	68-63	HT-2083B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	68-63	AT-872B Std Only	Mech.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	68	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
16	Push Rod	68	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	68	RP-3172	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	68	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	68	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod	67-63	RP-3230R	Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.
16	Push Rod	67-63	RP-3023	Ball & cup type ends; 9.5300" O.A.L.
16	Push Rod, Bulk	68	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	68	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	68-63	R-821	Adj.
16	Arm	68-63	R-814	Non-Adj.
2	Rocker Shaft	68-63	RS-621	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68-63	V-1875 Std Only	Chrome plated stem; 1.6520" Head Dia., .3705" Stem Dia., 5.4260" O.A.L.
8	Intake	68	V-1876 Std Only	Chrome plated stem; 2.0870" Head Dia., .3710" Stem Dia., 5.4470" O.A.L.
8	Intake	67-66	V-1876 Std Only	Chrome plated stem; 2.0870" Head Dia., .3710" Stem Dia., 5.4470" O.A.L.
8	Intake	65	V-1876 Std Only	Chrome plated stem; 2.0870" Head Dia., .3710" Stem Dia., 5.4470" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	68-63	VG-5007	Exh. & Int.; Monterey; .3725" ID, 2.3800" O.A.L.
16	Guide	68-63	VG-5007T	Exh. & Int.; Monterey; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	68-63	VG-5007B	Exh. & Int.; Monterey; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	68-63	VG-5007TB	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	68-63	VS-717	Incl. damper; 2.0260" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	68-63	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	68	MV-1775C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	68	MV-1775	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	68-63	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	68-63	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	68-63	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	68-63	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	68-63	VK-138	1 groove; Square cut key groove
32	Keeper	68-63	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	68-63	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	68-63	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	68-63	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	68-63	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	68-63	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	68-63	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	68-66	2304V	Split type bushing
8	Pin Bushing	68-66	2304V20	Split type bushing; w/.020" extra bore stock
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-63	4261M Std-1-10-20-30-40-50-60	3.824" max. flange OD
1	Main Set	63	4020M Std-10	3.684" max. flange OD
1	Rod Set	68-63	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	68-63	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	68-63	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
8	Rod Pair	68-63	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.

VALVE TRAIN

VALVE TRAIN

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# Ford Car

**61** 7.0L 427 OHV V8, 4.2328" Bore 1969-63  
 (cont.) VIN Codes "L" 1965-67, "M" 1965-67, "Q" 1963-65, "R" 1963-68, "W" 1966-69

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	(cont.) Cam Set	68-63	1445M Std Only	
	1	OIL PUMP	68-63	224-43365A	High Pressure
	1	Oil Pump	68-63	224-41177	High Volume, check pan for clearance
	1	Inter. Shaft	68-63	224-61114	
1	Screen Assy.	68	224-14158		
1	GASKETS	69-63	260-1035	Closed heat passage int. manifold gskts. not incl.; Exh. pipe flange not incl.	
1	FREEZE PLUGS	69-63	381-8017		
1	Brass Block Plug Kit	69-63	381-8017		
1	Steel Block Plug Kit	69-63	381-4015		

**62** 7.0L 428 OHV V8, 4.13" Bore 1970-66  
 VIN Codes "P" 1966-70 (Police), "Q" 1966-70, "R" 1968-70 (Cobra Jet & Super Cobra Jet)

BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	70-66	KT3-494SA1	Incl. (1) 222-494, (1) 223-321, (1) 223-396
	1	Timing Chain	70-66	222-494	48 Links
	1	Crank Sprocket	70-66	223-321	18 Teeth
1	Cam Sprocket	70-66	223-396	Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth	
1	CAMSHAFT/LIFTER	68-66	CS-642	VIN Codes "Q" & "R"	
16	Lifter	70-67	HT-2083 Std Only	Hyd.	
16	Lifter	66	AT-872 Std Only	VIN Code "P"; Mech.	
16	Lifter	66	HT-2083 Std Only	VIN Codes "Q" & "R"; Hyd.	
16	Lifter, Bulk	70-67	HT-2083B Std Only	Hyd.; Carton of 122	
16	Lifter, Bulk	66	AT-872B Std Only	VIN Code "P"; Mech.; Carton of 122	
16	Lifter, Bulk	66	HT-2083B Std Only	VIN Codes "Q" & "R"; Hyd.; Carton of 122	
1	Pre-lube	68-66	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
1	CAM KIT	68-66	KC-642	VIN Codes "Q" & "R"; Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B	
16	PUSH ROD	70-68	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.	
16	Push Rod	70-68	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.	
16	Push Rod	70-68	RP-3172	Ball & ball type ends; 9.6210" O.A.L.	
16	Push Rod	70-68	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.	
16	Push Rod	70-68	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.	
16	Push Rod	67-66	RP-3230R	VIN Code "P"; Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.	
16	Push Rod	67-66	RP-3023	VIN Code "P"; Ball & cup type ends; 9.5300" O.A.L.	
16	Push Rod	67-66	RP-3227R	VIN Codes "Q" & "R"; Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.	
16	Push Rod	67-66	RP-3172B	VIN Codes "Q" & "R"; Ball & ball type ends; 9.5600" O.A.L.	
16	Push Rod	67-66	RP-3172	VIN Codes "Q" & "R"; Ball & ball type ends; 9.6210" O.A.L.	
16	Push Rod	67-66	RP-3172A	VIN Codes "Q" & "R"; Ball & ball type ends; 9.6800" O.A.L.	
16	Push Rod	67-66	RP-3172C	VIN Codes "Q", "R"; 9.59" O.A.L.; 9.5910" O.A.L.	
16	Push Rod, Bulk	70-68	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
16	Push Rod, Bulk	70-68	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
16	Push Rod, Bulk	67-66	BRP-3172B	VIN Codes "Q" & "R"; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
16	Push Rod, Bulk	67-66	BRP-3172	VIN Codes "Q" & "R"; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
16	Push Rod, Bulk	67-66	BRP-3172B	VIN Codes "Q" & "R"; Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
16	Push Rod, Bulk	67-66	BRP-3172	VIN Codes "Q" & "R"; Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
16	ROCKER PARTS	70-66	R-821	Adj.	
16	Arm	70-66	R-814	Non-Adj.	
2	Rocker Shaft	70-66	RS-621		
8	VALVE	70-69	V-1853 Std-15	VIN Code "P"; Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	
8	Exhaust	70-69	V-1875 Std Only	VIN Codes "Q" & "R"; Chrome plated stem; 1.6520" Head Dia., .3705" Stem Dia., 5.4260" O.A.L.	
8	Exhaust	68-66	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	

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# Ford Car

7.0L 428 OHV V8, 4.13" Bore 1970-66 **62**

VIN Codes "P" 1966-70 (Police), "Q" 1966-70, "R" 1968-70 (Cobra Jet & Super Cobra Jet) (cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust, Bulk	70-69	V-1853B Std-15	VIN Code "P"; Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	68-66	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	70-69	V-1809 Std-3	VIN Code "P"; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	70-69	V-1876 Std Only	VIN Codes "Q" & "R"; Chrome plated stem; 2.0870" Head Dia., .3710" Stem Dia., 5.4470" O.A.L.
8	Intake	68-67	V-1809 Std-3	VIN Code "P"; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	68-67	V-1539 Std-15	VIN Codes "Q" & "R"; 2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake	66	V-1539 Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	68-67	V-1539B15 15	VIN Codes "Q" & "R"; Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	66	V-1539B15 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	70-66	VG-5007T	Exh. & Int.; Mercury; Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide	70-66	VG-5007	Exh. & Int.; Monterey; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	70-66	VG-5007B	Exh. & Int.; Mercury; Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	70-66	VG-5007TB	Exh. & Int.; Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	70-69	VS-717	Incl. damper; 2.0260" Free Height
16	Spring	68	VS-717	VIN Code "P"; Incl. damper; 2.0260" Free Height
16	Spring	68	VS-682	VIN Codes "Q" & "R"; Incl. damper; 2.1200" Free Height
16	Spring	67-66	VS-682	Incl. damper; 2.1200" Free Height
16	Spring, Bulk	68	VS-682B	VIN Codes "Q" & "R"; Incl. damper; Carton of 200; 2.1200" Free Height
16	Spring, Bulk	67-66	VS-682B	Incl. damper; Carton of 200; 2.1200" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	70-66	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	70-66	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	70-68	MV-1775C	Umbrella type; Polyacrylate
16	Valve Stem Seal	67-66	MV-1775C	VIN Codes "Q" & "R"; Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	70-68	MV-1775	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	70-66	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	70-66	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	67-66	MV-1775	VIN Codes "Q" & "R"; Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	70-69	245-1625-1N Std Only	VIN Code "P"; Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	70-69	245-1625-1 Std Only	VIN Code "P"; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	70-69	245-1750-2N Std Only	VIN Codes "Q" & "R"; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	70-69	245-1750-2 Std Only	VIN Codes "Q" & "R"; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	70-69	245-2125-1 Std Only	VIN Code "P"; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Int.	70-69	245-2250-1 Std Only	VIN Codes "Q" & "R"; 2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	68-67	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	68-67	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	68-67	245-2125-1 Std Only	VIN Code "P"; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	66	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	66	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	66	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	70-66	VK-138	1 groove; Square cut key groove
32	Keeper	70-66	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	70-66	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	70-66	259-306B	.030"; Carton of 100
16	Spring Insert	70-66	259-306A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	70-69	354P Std-30-40-60	VIN Codes "P" & "Q"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.
8	Cast Piston	68-66	354P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.

VALVE TRAIN

VALVE TRAIN

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# Ford Car

**62 7.0L 428 OHV V8, 4.13" Bore 1970-66**  
 (cont.) VIN Codes "P" 1966-70 (Police), "Q" 1966-70, "R" 1968-70 (Cobra Jet & Super Cobra Jet)

QTY		PISTON (cont.)		YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	70-69	<b>W354P</b> Std-30-40-60		VIN Codes "P" & "Q"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.	
8	Cast Piston - Individual	68-66	<b>W354P</b> Std-30-40-60		Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.	
8	Powerforged	70-69	<b>L-2303NF</b> Std-30-40-60		VIN Code "R"; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.674" CD, .9753" Pin Dia., Recessed Head .085" deep x 2.620" dia. w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
8	Powerforged	68	<b>L-2303NF</b> Std-30-40-60		VIN Code "R"; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.674" CD, .9753" Pin Dia., Recessed Head .085" deep x 2.620" dia. w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	70-69	<b>WL-2303NF</b> Std-30-40-60		VIN Code "R"; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.674" CD, .9753" Pin Dia., Recessed Head .085" deep x 2.620" dia. w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	68	<b>WL-2303NF</b> Std-30-40-60		VIN Code "R"; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.674" CD, .9753" Pin Dia., Recessed Head .085" deep x 2.620" dia. w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
8	Pin Bushing	70-66	<b>2304V</b>		VIN Code "Q"; Split type bushing	
8	Pin Bushing	70-66	<b>2304V20</b>		VIN Code "Q"; Split type bushing; w/.020" extra bore stock	
QTY		RINGS		YEARS	PART NO.	DESCRIPTION
1	Premium Set	70-66	<b>E-261K</b> Std-30-40-60		2-5/64, 1-3/16	
1	Standard Set	70-66	<b>E-261X</b> Std-30-40		2-5/64, 1-3/16	
8	Premium Single Cylinder Set	70-66	<b>WE-261K</b> Std-30-40		2-5/64, 1-3/16	
QTY		ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
1	Main Set	70-66	<b>4261M</b> Std-1-10-20-30-40-50-60		3.824" max. flange OD	
1	Rod Set	70-66	<b>8-3230CP</b> Std-1-10-20-30-40-50		Squirt hole removed from all Ford V Engs.; 8-3230CA 60 avail. as unplated & resizeable	
1	Rod Set	70-66	<b>8-3230CP10X2</b> 10X2-20X2-30X2-40X2		Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Engs.	
1	Rod Set	70-66	<b>8-3230CA60</b> 60		Unplated & resizeable; Squirt hole removed from all Ford V Engs.	
8	Rod Pair	70-66	<b>3230CP</b> Std-1-2-10-20-30-40-50		Squirt hole removed from all Ford V Engs.	
1	Cam Set	70-66	<b>1445M</b> Std Only			
QTY		OIL PUMP		YEARS	PART NO.	DESCRIPTION
1	Oil Pump	70	<b>224-41169</b>		VIN Codes "P" & "R"	
1	Oil Pump	69-66	<b>224-41173</b>		VIN Code "Q"	
1	Oil Pump	69-66	<b>224-43365A</b>		VIN Code "Q"; High Pressure	
1	Oil Pump	69-66	<b>224-41177</b>		VIN Code "Q"; High Volume, check pan for clearance	
1	Oil Pump	69-66	<b>224-41169</b>		VIN Codes "P" & "R"	
1	Inter. Shaft	70-66	<b>224-61114</b>			
1	Screen Assy.	70-66	<b>224-14158</b>			
QTY		GASKETS		YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	70-68	<b>260-1035</b>		VIN Code "R"; Int. manifold gskts. not incl.; Exh. pipe flange not incl.; Exh. heat shields not incl.	
1	Kit Gasket Set	70-68	<b>260-1035</b>		VIN Codes "P" & "Q"; Exh. pipe flange not incl.; Exh. heat shields not incl.	
1	Kit Gasket Set	67-66	<b>260-1035</b>		Exh. pipe flange not incl.; Exh. heat shields not incl.	
QTY		FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	70-66	<b>381-8017</b>			
1	Steel Block Plug Kit	70-66	<b>381-4015</b>			
RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
70-68	VIN Code "R"; Int. manifold gskts. not incl.; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.		Re-ring		<b>205-672</b>	<b>205-172</b>
70-68	VIN Codes "P" & "Q"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.		Re-ring		<b>205-672</b>	<b>205-172</b>
67-66	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.		Re-ring		<b>205-672</b>	<b>205-172</b>

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# Ford Car

## 7.0L 428 OHV V8, 4.13" Bore 1970-66 **62**

VIN Codes "P" 1966-70 (Police), "Q" 1966-70, "R" 1968-70 (Cobra Jet & Super Cobra Jet) (cont.)

### OVERHAUL KIT

#### YEARS DESCRIPTION

68-66 VIN Code "Q"; Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng.s.; w/3.824" max. brg. flange OD

Master w/o Pistons

#### PREMIUM

KIT NO.

MK-672A

#### ECONOMY

KIT NO.

MK-172A

## 7.0L 429 OHV V8, 4.36" Bore 1973-68 **63**

VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "K" 1969-71, "N" 1968-73, "P" 1971-72 (Police), "Z" 1969-70 (Boss)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	73-72	<b>KT3-491S</b>	VIN Code "N"; Incl. (1) 222-491, (1) 223-420A, (1) 223-421
1	3 Piece Set	72	<b>KT3-491SA</b>	VIN Code "P"; Incl. (1) 222-491, (1) 223-420A, (1) 223-493
1	3 Piece Set	71-68	<b>KT3-491SA</b>	Incl. (1) 222-491, (1) 223-420A, (1) 223-493
1	Timing Chain	73-68	<b>222-491</b>	52 Links
1	Crank Sprocket	73-72	<b>223-421</b>	VIN Code "N"; 18 Teeth
1	Crank Sprocket	72	<b>223-493</b>	VIN Code "P"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Crank Sprocket	71-68	<b>223-493</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	73-68	<b>223-420A</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	73-72	<b>CS-648</b>	VIN Code "N"
1	Camshaft	71-69	<b>CS-648</b>	VIN Codes "K", "N"
1	Camshaft	68	<b>CS-648</b>	VIN Code "N"
16	Lifter	73-72	<b>HT-900</b> Std Only	Hyd.
16	Lifter	71-70	<b>AT-2000</b> Std Only	VIN Codes "C", "J", "P"; Mech.
16	Lifter	71-70	<b>HT-900</b> Std Only	VIN Codes "K", "N", "R"; Hyd.
16	Lifter	69-68	<b>HT-900</b> Std Only	Hyd.
16	Lifter, Bulk	73-72	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	71-70	<b>AT-2000B</b> Std Only	VIN Codes "C", "J", "P"; Mech.; Carton of 122
16	Lifter, Bulk	71-70	<b>HT-900B</b> Std Only	VIN Codes "K", "N", "R"; Hyd.; Carton of 122
16	Lifter, Bulk	69-68	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
1	Prelube	73-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	73-72	<b>KC-648</b>	VIN Code "N"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	<b>KC-648</b>	VIN Codes "K", "N"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	68	<b>KC-648</b>	VIN Code "N"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	73-72	<b>KCT-648</b>	VIN Code "N"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) KT3-491S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	73-72	<b>RP-3160</b>	8.5500" O.A.L.
16	Push Rod	71-70	<b>RP-3160</b>	VIN Codes "C", "J", "P"; 8.5500" O.A.L.
16	Push Rod	71-70	<b>RP-3185</b>	VIN Codes "K", "N", "R"; 8.6480" O.A.L.
16	Push Rod	69	<b>RP-3164</b>	Exc. VIN Code "Z"; 8.6930" O.A.L.
16	Push Rod	69	<b>RP-316435</b>	Exc. VIN Code "Z"; 8.7280" O.A.L.
16	Push Rod	69	<b>RP-316460</b>	Exc. VIN Code "Z"; 8.7530" O.A.L.
16	Push Rod	69-68	<b>RP-3213R</b>	Chrome-Moly; 8.6900" O.A.L.
16	Push Rod	68	<b>RP-3164</b>	8.6930" O.A.L.
16	Push Rod	68	<b>RP-316435</b>	8.7280" O.A.L.
16	Push Rod	68	<b>RP-316460</b>	8.7530" O.A.L.
16	Push Rod, Bulk	73-72	<b>BRP-3160</b>	Carton of 100; 8.5500" O.A.L.
16	Push Rod, Bulk	71-70	<b>BRP-3160</b>	VIN Codes "C", "J", "P"; Carton of 100; 8.5500" O.A.L.
16	Push Rod, Bulk	69	<b>BRP-3164</b>	Exc. VIN Code "Z"; Carton of 100; 8.6930" O.A.L.
16	Push Rod, Bulk	68	<b>BRP-3164</b>	Carton of 100; 8.6930" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	73-72	<b>R-855</b>	Incl. arm & pivot
16	Arm Assy.	71-70	<b>R-1033</b>	VIN Codes "K" & "N"
16	Arm Assy.	69-68	<b>R-1033</b>	
16	Arm Assy., Bulk	73-72	<b>R-855B</b>	Incl. arm & pivot; Carton of 64
16	Arm	73-72	<b>R-855A</b>	
16	Arm	71-70	<b>R-863A</b>	VIN Codes "K" & "N"
16	Arm	69-68	<b>R-863A</b>	
16	Pivot Ball	71-70	<b>MR-1820</b>	VIN Codes "K" & "N"
16	Pivot Ball	69-68	<b>MR-1820</b>	
16	Nut	71-68	<b>MR-1813</b>	Use w/R-1033; 7/16" thread
16	Bolt	72	<b>MR-1951</b>	VIN Code "P"; 5/16" X 18 UNC w/o washer

VALVE TRAIN

VALVE TRAIN

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# Ford Car

## 63 7.0L 429 OHV V8, 4.36" Bore 1973-68

(cont.) VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "K" 1969-71, "N" 1968-73, "P" 1971-72 (Police), "Z" 1969-70 (Boss)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Pivot	73-72	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	73	V-1984 Std-15	Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	72	V-1849 Std Only	VIN Code "N"; Chrome plated stem; 1.6540" Head Dia., .3420" Stem Dia., 5.0830" O.A.L.
8	Exhaust	71	V-1933 Std Only	VIN Codes "C", "J", "P"; Chrome plated stem; 1.7250" Head Dia., .3420" Stem Dia., 5.0680" O.A.L.
8	Exhaust	71-70	V-1849 Std Only	VIN Codes "K" & "N"; Chrome plated stem; 1.6540" Head Dia., .3420" Stem Dia., 5.0830" O.A.L.
8	Exhaust	70	V-1933 Std Only	VIN Codes "C", "J", "Z"; Chrome plated stem; 1.7250" Head Dia., .3420" Stem Dia., 5.0680" O.A.L.
8	Exhaust	69-68	V-1849 Std Only	Chrome plated stem; 1.6540" Head Dia., .3420" Stem Dia., 5.0830" O.A.L.
8	Exhaust, Bulk	73	V-1984B15 15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Intake	73	V-3929 Std-15	Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake	72	V-1850 Std Only	VIN Code "N"; Chrome plated stem; 2.0830" Head Dia., .3420" Stem Dia., 5.2880" O.A.L.
8	Intake	71-70	V-1850 Std Only	VIN Codes "K" & "N"; Chrome plated stem; 2.0830" Head Dia., .3420" Stem Dia., 5.2880" O.A.L.
8	Intake	69-68	V-1850 Std Only	Chrome plated stem; 2.0830" Head Dia., .3420" Stem Dia., 5.2880" O.A.L.
8	Intake, Bulk	73	V-3929B15 15	Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	73-68	VG-5061	.3430" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	73	VS-703	2.0560" Free Height
16	Spring	72	VS-717	VIN Code "P"; Incl. damper; 2.0260" Free Height
16	Spring	72-70	VS-703	VIN Codes "K" & "N"; 2.0560" Free Height
16	Spring	71	VS-717	VIN Codes "C", "J", "P"; Incl. damper; 2.0260" Free Height
16	Spring	70	VS-717	VIN Codes "C", "J", "Z"; Incl. damper; 2.0260" Free Height
16	Spring	69-68	VS-703	2.0560" Free Height
16	Spring, Bulk	73	VS-703B	Carton of 250; 2.0560" Free Height
16	Spring, Bulk	72-70	VS-703B	VIN Codes "K" & "N"; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	69-68	VS-703B	Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	73-68	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	73-70	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	69	MV-1796C	Exc. VIN Code "Z"; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal	68	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	73-70	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	73-68	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	69	MV-1796	Exc. VIN Code "Z"; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
16	Valve Stem Seal Bulk	68	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	73	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	73	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	72	245-1812-4 Std Only	VIN Code "P"; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	72-70	245-1750-2N Std Only	VIN Codes "K" & "N"; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	72-70	245-1750-2 Std Only	VIN Codes "K" & "N"; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	72-70	245-2250-1 Std Only	VIN Codes "K" & "N"; 2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	71	245-1812-4 Std Only	VIN Codes "C", "J", "P"; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	70	245-1812-4 Std Only	VIN Codes "C", "J", "Z"; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	69-68	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	69-68	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	69-68	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth

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# Ford Car

7.0L 429 OHV V8, 4.36" Bore 1973-68 **63**

VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "K" (cont.) 1969-71, "N" 1968-73, "P" 1971-72 (Police), "Z" 1969-70 (Boss)

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	73-68	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	73-68	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	73-68	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	73-68	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	73-68	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	73-68	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	73-68	<b>413AP</b> * Std-20-30-40-60	VIN Codes "K" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Oblong Recessed Head .120" deep - 8.0:1 C.R.
8	Cast Piston	73-68	<b>413NP</b> + Std-20-30-40-60	VIN Codes "K" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Oblong Recessed Head .120" deep - 8.0:1 C.R.; When depleted use 413AP
8	Cast Piston - Individual	73-68	<b>W413AP30</b> * 30-40-60	VIN Codes "K" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Recessed Head; Oblong shape .120" deep - 8.0:1 C.R.
8	Cast Piston - Individual	73-68	<b>W413NP30</b> + 30-40-60	VIN Codes "K" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Recessed Head; Oblong shape .120" deep - 8.0:1 C.R.; When depleted use W413AP 30
8	Powerforged	72	<b>L-2366F</b> Std-30-40	VIN Code "P"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71	<b>L-2366F</b> Std-30-40	VIN Codes "C", "J", "P"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70	<b>L-2366F</b> Std-30-40	VIN Codes "C", "J", "Z"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72	<b>WL-2366F</b> Std-30-40	VIN Code "P"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71	<b>WL-2366F</b> Std-30-40	VIN Codes "C", "J", "P"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70	<b>WL-2366F</b> Std-30-40	VIN Codes "C", "J", "Z"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.890" CD, 1.0402" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	73-68	<b>E-296K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	73-68	<b>E-296X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	73-68	<b>WE-296K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	73-68	<b>WE-296X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-68	<b>4907M</b> Std-1-10-20-30-40	
1	Rod Set	73-68	<b>8-3360CPA</b> Std-1-10-20-30-40	
1	Rod Set	73-68	<b>8-3360CPA10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
8	Rod Pair	73-68	<b>3360CPA</b> Std-1-10-20-30-40	
1	Cam Set	73-68	<b>1414M</b> Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	73	<b>224-41139V</b>	VIN Code "N"; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Oil Pump	73	<b>224-41139</b>	VIN Code "N"; Use w/224-12139
1	Oil Pump	72-70	<b>224-41139V</b>	VIN Codes "K" & "N"; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Oil Pump	72-70	<b>224-41139</b>	VIN Codes "K" & "N"; Use w/224-12139
1	Oil Pump	69-68	<b>224-41139</b>	VIN Codes "K" & "N"; Use w/224-12139
1	Oil Pump	69-68	<b>224-41139V</b>	VIN Codes "K", "N"; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Pump Repair Kit	73-68	<b>224-51139</b>	
1	Inter. Shaft	73-68	<b>224-61127</b>	
1	Screen Assy.	73	<b>224-12139</b>	VIN Code "N"; Press-in type screen
1	Screen Assy.	72	<b>224-14160</b>	VIN Code "P"; Bolt-on type screen
1	Screen Assy.	72-70	<b>224-12139</b>	VIN Codes "K" & "N"; Press-in type screen
1	Screen Assy.	71	<b>224-14160</b>	VIN Codes "C", "J", "P"; Bolt-on type screen
1	Screen Assy.	70	<b>224-14160</b>	VIN Codes "C", "J", "Z"; Bolt-on type screen
1	Screen Assy.	69-68	<b>224-12139</b>	VIN Codes "K" & "N"; Press-in type screen

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# Ford Car

**63 7.0L 429 OHV V8, 4.36" Bore 1973-68**  
 (cont.) VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "K" 1969-71, "N" 1968-73, "P" 1971-72 (Police), "Z" 1969-70 (Boss)

BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Kit Gasket Set	73	260-1013	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	72	260-1013	VIN Codes "N" & "P"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	71	260-1013	VIN Codes "K", "N", "P"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	71-69	260-1013	VIN Codes "C" & "J"; Int. manifold gsks. not incl.; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	70-69	260-1013	VIN Codes "K" & "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	68	260-1013	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	73-68	381-8018				
1	Steel Block Plug Kit	73-68	381-4021				
KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION					
	73	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	72	VIN Codes "N" & "P"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	71	VIN Codes "K", "N" & "P"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	71-69	VIN Codes "C" & "J"; Int. manifold gsks. not incl.; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	70-69	VIN Codes "K" & "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	68	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	205-637	205-137	
					205-637M	205-137M	
	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.	
	YEARS	DESCRIPTION					
	73-72	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master	Master w/o Rods & Mains	MKP-637C	MKP-137C	
				505-637C	505-137C		
73-72	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master w/o Pistons		MK-637E	MK-137E		
71-69	VIN Codes "K" & "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master	Master w/o Rods & Mains	MKP-637A	MKP-137A		
				505-637A	505-137A		
71-69	VIN Codes "K" & "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master w/o Pistons		MK-637D	MK-137D		
68	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master	Master w/o Rods & Mains	MKP-637A	MKP-137A		
				505-637A	505-137A		
68	VIN Code "N"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master w/o Pistons		MK-637D	MK-137D		

**64 7.0L 430 OHV V8, 4.2969" Bore 1965-58**  
 VIN Codes "H" 1958-62, "J" 1958-60, "K" 1958-59, "L" 1959, "M" 1960, "N" 1963-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	65-58	222-491	52 Links
1	Crank Sprocket	65-58	223-283	20 Teeth
1	Cam Sprocket	65-61	223-386	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	65-58	HT-2083 Std Only	Hyd.
16	Lifter, Bulk	65-58	HT-2083B Std Only	Hyd.; Carton of 122
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	65-58	RP-3059	9.7700" O.A.L.

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# Ford Car

**7.0L 430 OHV V8, 4.2969" Bore 1965-58 64**

VIN Codes "H" 1958-62, "J" 1958-60, "K" 1958-59, "L" 1959, "M" 1960, "N" 1963-65 (cont.)

VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	16	Arm	60-59	R-814	w/Hyd. lifters
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	65-58	VG-5007	Exh.; Mercury; .3725" ID, 2.3800" O.A.L.
	8	Guide	65-58	VG-5007T	Exh.; Mercury; Threaded; .3725" ID, 2.3800" O.A.L.
	8	Guide	65-58	VG-5062	Exh.; Thunderbird; .3735" ID, 2.3800" O.A.L.
	8	Guide	65-58	VG-5008	Int.; Plain; .3725" ID, 2.7500" O.A.L.
	8	Guide	65-58	VG-5057T	Int.; Threaded; .3730" ID, 2.7500" O.A.L.
	8	Guide, Bulk	65-58	VG-5007B	Exh.; Mercury; Carton of 50; .3725" ID, 2.3800" O.A.L.
	8	Guide, Bulk	65-58	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
8	Guide, Bulk	65-58	VG-5008B	Int.; Plain; Carton of 50; .3725" ID, 2.7500" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
16	Spring	65-63	VS-721	1.9600" Free Height	
16	Spring, Bulk	65-63	VS-721B	Carton of 250; 1.9600" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	65-58	ST-2002	Exh. & Int.; Installation requires valve guide machining; Polyacrylate	
8	Valve Stem Seal	65-58	MV-1775C	Exh.; Umbrella type; Polyacrylate	
8	Valve Stem Seal Bulk	65-58	MV-1775	Exh.; Umbrella type; Carton of 100; Polyacrylate	
16	Valve Stem Seal Bulk	65-58	ST-2002BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	65-58	VK-138	1 groove; Square cut key groove	
32	Keeper	65-58	VK-138R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	65-58	VK-138B	1 groove; Square cut key groove; Carton of 1000	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set	65-58	E-183X Std Only	1-5/64, 1-3/32, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	65-62	4130M Std-10	Double locking lips on lower brg. halves
	8	Rod Pair	65-58	2305CP Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	65-58	224-43365A	High Pressure	
1	Oil Pump	65-58	224-41177	High Volume, check pan for clearance	
1	Oil Pump	65-58	224-41173	W/Electric wipers	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	65-58	381-8018		
1	Steel Block Plug Kit	65-58	381-4021		

**7.5L 460 OHV V8, 4.36" Bore 1978-68 65**

VIN Codes "A" 1968-78, "C" 1973-78 (Police)

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	78-77	KT3-491S	Incl. (1) 222-491, (1) 223-420A, (1) 223-421
	1	3 Piece Set	78-77	KT3-491SA	VIN Code "C"; Incl. (1) 222-491, (1) 223-420A, (1) 223-493
	1	3 Piece Set	76-75	KT3-491S	Incl. (1) 222-491, (1) 223-420A, (1) 223-421
	1	3 Piece Set	74-72	KT3-491S	VIN Code "A"; Incl. (1) 222-491, (1) 223-420A, (1) 223-421
	1	3 Piece Set	74-72	KT3-491SA	VIN Code "C"; Incl. (1) 222-491, (1) 223-420A, (1) 223-493
	1	3 Piece Set	71-69	KT3-491SA	Incl. (1) 222-491, (1) 223-420A, (1) 223-493
	1	Timing Chain	78-69	222-491	52 Links
	1	Crank Sprocket	78-77	223-493	VIN Code "C"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
	1	Crank Sprocket	78-75	223-421	18 Teeth
	1	Crank Sprocket	74-72	223-493	VIN Code "C"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
	1	Crank Sprocket	74-72	223-421	VIN Codes "A" & "J"; 18 Teeth
	1	Crank Sprocket	71-69	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
	1	Cam Sprocket	78-69	223-420A	36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	78-69	CS-648	VIN Code "A"	
16	Lifter	78-69	HT-900 Std Only	Hyd.	
16	Lifter	78-69	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.	
16	Lifter, Bulk	78-69	HT-900B Std Only	Hyd.; Carton of 122	
16	Lifter, Bulk	78-69	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122	
1	Prelube	78-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	

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# Ford Car

**65 7.5L 460 OHV V8, 4.36" Bore 1978-68**  
 (cont.) VIN Codes "A" 1968-78, "C" 1973-78 (Police)

VALVE TRAIN

VALVE TRAIN

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	78-69	KC-648	VIN Code "A"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-75	KCT-648	VIN Code "A"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) KT3-491S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-72	KCT-648	VIN Code "A"; Hyd.; Incl. (1) CS-648, (16) HT-900, (1) KT3-491S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	78-72	RP-3160	8.5500" O.A.L.
16	Push Rod	78-72	RP-3252	8.6160" O.A.L.
16	Push Rod	71-70	RP-3185	8.6480" O.A.L.
16	Push Rod	69	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
16	Push Rod	69	RP-3164	8.6930" O.A.L.
16	Push Rod	69	RP-316435	8.7280" O.A.L.
16	Push Rod	69	RP-316460	8.7530" O.A.L.
16	Push Rod, Bulk	78-72	BRP-3160	Carton of 100; 8.5500" O.A.L.
16	Push Rod, Bulk	69	BRP-3164	Carton of 100; 8.6930" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	78-72	R-855	Incl. arm & pivot
16	Arm Assy.	71	R-855	From 11/5/70; Incl. arm & pivot
16	Arm Assy.	71-69	R-1033	To 11/4/70
16	Arm Assy., Bulk	78-72	R-855B	Incl. arm & pivot; Carton of 64
16	Arm Assy., Bulk	71	R-855B	From 11/5/70; Incl. arm & pivot; Carton of 64
16	Arm	78-72	R-855A	
16	Arm	71	R-855A	From 11/5/70
16	Arm	71-69	R-863A	To 11/4/70
16	Pivot Ball	71-69	MR-1820	To 11/4/70
16	Nut	71-69	MR-1813	Use w/R-1033; 7/16" thread
16	Bolt	78-72	MR-1951	5/16" X 18 UNC w/o washer
16	Bolt	71	MR-1951	From 11/5/70; 5/16" X 18 UNC w/o washer
16	Pivot	78-72	MR-1811	
16	Pivot	71	MR-1811	From 11/5/70
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	78-77	V-1984 Std-15	VIN Codes "A" & "J"; Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	76-75	V-1984 Std-15	Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	74-73	V-1984 Std-15	VIN Codes "A" & "J"; Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	72-69	V-1849 Std Only	Chrome plated stem; 1.6540" Head Dia., .3420" Stem Dia., 5.0830" O.A.L.
8	Exhaust, Bulk	78-77	V-1984B15 15	VIN Codes "A" & "J"; Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Exhaust, Bulk	76-75	V-1984B15 15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Exhaust, Bulk	74-73	V-1984B15 15	VIN Codes "A" & "J"; Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Intake	78-77	V-3929 Std-15	VIN Codes "A" & "J"; Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake	76-75	V-3929 Std-15	Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake	74-73	V-3929 Std-15	VIN Codes "A" & "J"; Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake	72-69	V-1850 Std Only	Chrome plated stem; 2.0830" Head Dia., .3420" Stem Dia., 5.2880" O.A.L.
8	Intake, Bulk	78-77	V-3929B15 15	VIN Codes "A" & "J"; Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
8	Intake, Bulk	76-75	V-3929B15 15	Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
8	Intake, Bulk	74-73	V-3929B15 15	VIN Codes "A" & "J"; Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	78-69	VG-5006	Exh. & Int.; .3440" ID, 2.3750" O.A.L.
16	Guide, Bulk	78-69	VG-5006B	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	78-73	VS-717	VIN Code "C"; Incl. damper; 2.0260" Free Height
16	Spring	78-73	VS-703	VIN Codes "A" & "J"; 2.0560" Free Height
16	Spring	72-69	VS-703	2.0560" Free Height
16	Spring, Bulk	78-73	VS-703B	VIN Codes "A" & "J"; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	72-69	VS-703B	Carton of 250; 2.0560" Free Height

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# Ford Car

7.5L 460 OHV V8, 4.36" Bore 1978-68 **65**  
VIN Codes "A" 1968-78, "C" 1973-78 (Police) (cont.)

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	78-69	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	77-69	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	78-69	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	77-69	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	78-75	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	78-75	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	78-75	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	74-73	245-1750-2N Std Only	VIN Codes "A" & "J"; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-73	245-1750-2 Std Only	VIN Codes "A" & "J"; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	74-73	245-2250-1 Std Only	VIN Codes "A" & "J"; 2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	72	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	72	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	72	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	78-69	VK-115	1 groove; Square cut key groove
32	Keeper	78-69	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	78-69	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	78-69	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	78-69	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	78-69	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	78-69	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	78-69	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	78-69	H418CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; DurOshield® skirt coated piston
8	Cast Piston	78-69	H418P Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
8	Cast Piston - Individual	78-69	WH418CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; DurOshield® skirt coated piston
8	Cast Piston - Individual	78-69	WH418P Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	78-69	8KH418CP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; Duroshield® skirt coated piston
1	Cast Piston Set w/Prem. Rings	78-69	8KH418P20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
1	Cast Piston Set w/Econ. Rings	78-69	8XH418P20 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
8	Powerforged	78-69	L-2404F Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.756" CD, 1.0402" Pin Dia., Recessed Head .180" deep. DurOshield® skirt coated piston.
8	Forged Piston - Individual	78-69	WL-2404F Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.756" CD, 1.0402" Pin Dia., Recessed Head .180" deep. DurOshield® skirt coated piston.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	78-69	E-296K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	78-69	E-296X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	78-69	WE-296K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	78-69	WE-296X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	78-69	4907M Std-1-10-20-30-40	
1	Rod Set	78-69	8-3360CPA Std-1-10-20-30-40	
1	Rod Set	78-69	8-3360CPA10X2 10X2-20X2	Use in .002" O/S Rod Bore
8	Rod Pair	78-69	3360CPA Std-1-10-20-30-40	
1	Cam Set	78-69	1414M Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	78-73	224-41139	VIN Code "A"; Use w/224-12139
1	Oil Pump	78-73	224-41139V	VIN Codes "A" & "J"; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Oil Pump	72-69	224-41139V	VIN Code "A"; High Volume, check pan for clearance; Incl. 224-14160 screen

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# Ford Car

## 65 7.5L 460 OHV V8, 4.36" Bore 1978-68 (cont.) VIN Codes "A" 1968-78, "C" 1973-78 (Police)

BLOCK	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Oil Pump	72-69	224-41139	VIN Code "A"; Use w/224-12139		
	1	Pump Repair Kit	78-69	224-51139	VIN Codes "A" & "J"		
	1	Inter. Shaft	78-69	224-61127	VIN Codes "A" & "J"		
	1	Screen Assy.	78-73	224-14160	Bolt-on type screen		
	1	Screen Assy.	78-73	224-12139	VIN Codes "A" & "J"; Press-in type screen		
1	Screen Assy.	72-69	224-12139	VIN Code "A"; Press-in type screen			
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Kit Gasket Set	78-75	260-1013	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	74-68	260-1013	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	78-75	260-4005				
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Brass Block Plug Kit	78-68	381-8018			
1	Steel Block Plug Kit	78-68	381-4021				
KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION					
	78-75	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring		205-637	205-137	
			Re-ring w/Mains		205-637M	205-137M	
	74-69	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring		205-637	205-137	
			Re-ring w/Mains		205-637M	205-137M	
	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.	
	YEARS	DESCRIPTION					
	78-75	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master		MKP-637E	MKP-137E	
			Master w/o Pistons		MK-637E	MK-137E	
		Master w/o Rods & Mains		505-637E	505-137E		
74-72	VIN Code "A"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master		MKP-637E	MKP-137E		
		Master w/o Pistons		MK-637E	MK-137E		
		Master w/o Rods & Mains		505-637E	505-137E		
71-69	VIN Code "A"; Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master		MKP-637D	MKP-137D		
		Master w/o Pistons		MK-637D	MK-137D		
		Master w/o Rods & Mains		505-637D	505-137D		

## 66 7.6L 462 OHV V8 (Lincoln), 4.38" Bore 1968-66 VIN Codes "G" 1966-68, "7" 1967-68

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Chain	67-66	222-491	52 Links	
	1	Crank Sprocket	67-66	223-283	20 Teeth	
1	Cam Sprocket	67-66	223-386	40 Teeth		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Lifter	67-66	HT-2083	Std Only Hyd.	
16	Lifter, Bulk	67-66	HT-2083B	Std Only Hyd.; Carton of 122		
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Push Rod	67-66	RP-3059	9.7700" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	8	Guide	67-66	VG-5007	Exh.; .3725" ID, 2.3800" O.A.L.	
	8	Guide	67-66	VG-5062	Exh.; .3735" ID, 2.3800" O.A.L.	
	8	Guide	67-66	VG-5007T	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.	
	8	Guide	67-66	VG-5076T	Int.; Threaded; .3740" ID, 2.8750" O.A.L.	
	8	Guide, Bulk	67-66	VG-5007B	Exh.; Carton of 50; .3725" ID, 2.3800" O.A.L.	
	8	Guide, Bulk	67-66	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.	
	8	Guide, Bulk	67-66	VG-5076TB	Int.; Threaded; Carton of 50; .3740" ID, 2.8750" O.A.L.	
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Spring	67-66	VS-721	1.9600" Free Height	
16	Spring, Bulk	67-66	VS-721B	Carton of 250; 1.9600" Free Height		
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Valve Stem Seal	67-66	ST-2002	Installation requires valve guide machining; Polyacrylate Umbrella type; Polyacrylate	
	16	Valve Stem Seal	67-66	MV-1775C	Positive type; Installation requires valve guide machining;	
	16	Valve Stem Seal Bulk	67-66	ST-2002BC	Carton of 100; Polyacrylate	
	16	Valve Stem Seal Bulk	67-66	MV-1775	Umbrella type; Carton of 100; Polyacrylate	
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Exh.	67-66	245-1750-2	Std Only 1.7550" OD, 1.5000" ID, .2160" Depth	
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	32	Keeper	67-66	VK-138	1 groove; Square cut key groove	

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# Ford Car

**7.6L 462 OHV V8 (Lincoln), 4.38" Bore 1968-66 66**

VIN Codes "G" 1966-68, "7" 1967-68 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
32	Keeper	67-66	VK-138R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	67-66	VK-138B	1 groove; Square cut key groove; Carton of 1000	
<b>B L O C K</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	67-66	4130M Std-10	Double locking lips on lower brg. halves
	8	Rod Pair	67-66	2305CP Std-10	
	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	67-66	224-41173	
	1	Oil Pump	67-66	224-43365A	High Pressure
	1	Oil Pump	67-66	224-41177	High Volume, check pan for clearance
	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	68-66	381-8018	
	1	Steel Block Plug Kit	68-66	381-4021	

## Ford Minivans - See Ford Truck Ford SUV's - See Ford Truck Ford Truck (Includes Minivans and SUV's)

### Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.8L 109.6 (1796cc) SOHC L4 78mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	1980-72	1	4.0L 244 (4015cc) OHV V6 100.4mm Bore (12 Valve) L/D Truck.....	1990	22
2.0L 120.2 (1970cc) SOHC L4 80mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	1982-79	2	4.1L 250 OHV L6 3.68" Bore L/D Truck.....	1974-69	23
2.0L 122 (2007cc) SOHC L4 89.3mm Bore (8 Valve) L/D Truck.....	1988-83	3	4.2L 255 OHV V8 3.68" Bore L/D Truck.....	1982-81	24
2.2L 134.8 (2209cc) OHV Diesel L4 88.9mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	1984-83	4	4.2L 255.4 L-HEAD V8 3.1875" Bore (Mercury) L/D Truck.....	1954-48	25
2.3L 140 (2302cc) SOHC L4 96mm Bore (8 Valve) L/D Truck.....	1990-77	5	4.2L 256 OHV V8 3.625" Bore (Mercury) L/D Truck.....	1955-54	26
2.3L 143 (2346cc) SOHC Turbo-Diesel L4 91mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	1987-85	6	4.3L 262 OHV L6 3.7188" Bore L/D Truck.....	1964-61	27
2.4L 144 OHV L6 3.5" Bore L/D Truck.....	1966-60	7	4.4L 272 OHV V8 3.625" Bore L/D Truck.....	1957-56	28
2.8L 170 OHV L6 3.5" Bore L/D Truck.....	1972-61	8	4.7L 289 OHV V8 4" Bore L/D Truck.....	1968-65	29
2.8L 171 (2792cc) OHV V6 93mm Bore (12 Valve) L/D Truck.....	1986-83	9	4.8L 292 OHV V8 3.75" Bore L/D Truck.....	1964-58	30
2.9L 177 (2935cc) OHV V6 93mm Bore (12 Valve) L/D Truck.....	1990-86	10	4.9L 300 OHV L6 4" Bore L/D Truck.....	1990-65	31
3.0L 183 (2982cc) OHV V6 89mm Bore (12 Valve/Vulcan) L/D Truck.....	1990-86	11	4.9L 300 OHV LPG L6 4" Bore L/D Truck.....	1988-82	32
3.3L 200 OHV L6 3.68" Bore L/D Truck.....	1974-64	12	5.0L 302 OHV V8 4" Bore L/D Truck.....	1990-68	33
3.5L 215 OHV L6 3.5625" Bore L/D Truck.....	1953-52	13	5.4L 330 OHV V8 3.875" Bore (M/D Eng.) L/D Truck.....	1977-75	34
3.6L 221 L-HEAD V8 3.0625" Bore (Ford) L/D Truck.....	1942-32	14	5.4L 332 OHV V8 4" Bore L/D Truck.....	1963-60	35
3.6L 223 OHV L6 3.625" Bore L/D Truck.....	1964-54	15	5.8L 351 OHV V8 4" Bore (Modified) L/D Truck.....	1981-77	36
3.7L 226 L-HEAD L6 3.2969" Bore L/D Truck.....	1951-47	16	5.8L 351 OHV V8 4" Bore (Windsor) L/D Truck.....	1990-69	37
3.8L 232 (3797cc) OHV V6 96.8mm Bore L/D Truck.....	1983-82	17	5.8L 352 OHV V8 4" Bore L/D Truck.....	1967-57	38
3.9L 239 OHV V8 3.5" Bore (Ford) L/D Truck.....	1955-54	18	5.9L 360 OHV V8 4.05" Bore L/D Truck.....	1977-68	39
3.9L 239.4 L-HEAD V8 3.1875" Bore (Ford/Mercury) L/D Truck.....	1953-39	19	5.9L 361 OHV V8 4.05" Bore L/D Truck.....	1966-64	40
3.9L 240 OHV L6 4" Bore L/D Truck.....	1976-65	20	6.4L 390 OHV V8 4.05" Bore L/D Truck.....	1977-67	41
4.0L 242 (3966cc) OHV Diesel L4 104.8mm Bore (Dorset) (Ford Europe Eng.) L/D Truck.....	1970-67	21	6.6L 400 OHV V8 4" Bore L/D Truck.....	1982-72	42
			6.9L 420 OHV Diesel V8 4" Bore (IDI) (International Eng.) L/D Truck.....	1987-83	43
			7.0L 428 OHV V8 4.13" Bore L/D Truck.....	1969-68	44
			7.0L 429 OHV V8 4.36" Bore L/D Truck.....	1973-70	45
			7.3L 444 OHV Diesel V8 4.1102" Bore (IDI) (International Eng.) L/D Truck.....	1990-88	46
			7.5L 460 OHV V8 4.36" Bore L/D Truck.....	1990-73	47

### Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
MB.....	2.0L 120.2 (1970cc) SOHC L4 80mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	2	WB.....	2.3L 140 (2302cc) SOHC L4 96mm Bore (8 Valve) L/D Truck.....	5
S2.....	2.2L 134.8 (2209cc) OHV Diesel L4 88.9mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	4	4D55-T.....	2.3L 143 (2346cc) SOHC Turbo-Diesel L4 91mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck.....	6
VB.....	1.8L 109.6 (1796cc) SOHC L4 78mm Bore (8 Valve) (Mazda Eng.) L/D Truck.....	1			

# Ford Truck (Includes Minivans and SUV's)

<b>1 1.8L 109.6 (1796cc) SOHC L4 (8 Valve), 78mm Bore (Mazda Eng.) 1980-72</b>				
<b>L/D Truck VIN Code "A" 1972-78, Eng. Code "VB" 1972-78</b>				
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	78-77	<b>CS-724</b>	Single threaded on nose; Spacer not req'd.
1	Camshaft	76-74	<b>CS-724</b>	Single threaded on nose; When installing CS-724 the spacer provided must be used
1	Camshaft	72	<b>CS-724</b>	Exc. Calif.
1	Prelube	78-72	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	78-72	<b>V-2265</b> Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.
4	Intake	78-72	<b>V-2187</b> Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Keeper	78-72	<b>VK-208</b>	Exh.
8	Keeper	78-72	<b>VK-207</b>	Int.
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Pin Bushing	78-72	<b>3569Y</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	78-72	<b>E-350KC</b> Std-.25-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	78-72	<b>E-350X</b> Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	78-72	<b>WE-350KC</b> Std-.75MM	2-1.50MM, 1-4.00MM
4	Standard Single Cylinder Set	78-72	<b>WE-350X</b> Std-1.00MM	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	80-72	<b>5027M</b> Std-.25-.50MM	
1	Thrust Washer Set	80-72	<b>3567AF</b> Std Only	Position 5
1	Rod Set	80-72	<b>4-4005P</b> Std-.25-.50-.75MM	
1	Cam Set	80-72	<b>1442M</b> Std Only	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	80-72	<b>381-8031</b>	
<b>2 2.0L 120.2 (1970cc) SOHC L4 (8 Valve), 80mm Bore (Mazda Eng.) 1982-79</b>				
<b>L/D Truck VIN Code "1" 1979-82, Eng. Code "MB" 1979-82</b>				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Complete Set	80	<b>KT-1010S</b>	To 1/31/80; Incl. sprockets, 2 chains, tensioner, guides, gskts. & oil seal
1	Complete Set	79	<b>KT-1010S</b>	Incl. sprockets, 2 chains, tensioner, guides, gskts. & oil seal
1	Timing Chain Tensioner	80	<b>222-47CT</b>	From 2/1/80
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	82-79	<b>CS-724</b>	
1	Prelube	82-79	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	82-79	<b>V-2265</b> Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.
4	Intake	82-79	<b>V-2187</b> Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	82-80	<b>VG-713</b>	.3183" ID, 1.9900" O.A.L.
8	Guide	79	<b>VG-713</b>	From 11/2/78; From Ser. No. SGTCUA077304; .3183" ID, 1.9900" O.A.L.
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Keeper	82-79	<b>VK-208</b>	Exh.
8	Keeper	82-79	<b>VK-207</b>	Int.
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Pin Bushing	82-79	<b>3569Y</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Standard Set	82-79	<b>E-409X</b> Std-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-4.00MM
1	Standard Set	81-79	<b>E-612X</b> Std Only	Late design; w/wider comp. rings; 1-1.50MM, 1-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	82-79	<b>WE-409KC</b> Std-.50-.75MM	1-1.20MM, 1-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	81-79	<b>WE-612KC</b> Std-.50MM	1-1.50MM, 1-2.00MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	82-79	<b>5027M</b> Std-.25-.50MM	
1	Thrust Washer Set	82-79	<b>3567AF</b> Std Only	Position 5
1	Rod Set	82-79	<b>4-4005P</b> Std-.25-.50-.75MM	
1	Cam Set	82-79	<b>1442M</b> Std Only	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	82-80	<b>260-1112</b>	Premium valve stem seals incl.
1	Kit Gasket Set	79	<b>260-1112</b>	From 11/2/78; From Ser. No. SGTCUA077304; Premium valve stem seals incl.

(continued on next page)



## Ford Truck (Includes Minivans and SUV's)

2.0L 120.2 (1970cc) SOHC L4 (8 Valve), 80mm Bore (Mazda Eng.) 1982-79 <b>2</b>						
L/D Truck VIN Code "1" 1979-82, Eng. Code "MB" 1979-82 (cont.)						
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	82-79	381-8031			
<b>KITS</b>	RE-RING KIT				PREMIUM	ECONOMY
	YEARS	DESCRIPTION			KIT NO.	KIT NO.
	82-80	Premium valve stem seals incl.		Re-ring	205-838	----
				Re-ring w/Mains	205-838M	----
	79	From 11/2/78; From Ser. No. SGTCUA077304; Premium valve stem seals incl.		Re-ring	205-838	----
			Re-ring w/Mains	205-838M	----	<b>KITS</b>

2.0L 122 (2007cc) SOHC L4 (8 Valve), 89.3mm Bore 1988-83 <b>3</b>						
L/D Truck VIN Code "C" 1983-88						

QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	Timing Belt	88-83	222-14			
1	Timing Belt Tensioner	88-83	222-11BT			
1	Timing Belt & Tensioner Set	88-83	BTS-14	Use w/square tooth sprocket		
1	Crank Sprocket	88-83	223-447	19 Teeth		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	88-83	CS-767			
8	Lifter	88-83	HT-2012 Std Only	Hyd. lash adj.; Std. length		
8	Lifter, Bulk	88-83	HT-2012B Std Only	Hyd. lash adj.; Std. length; Carton of 120		
1	Prelube	88-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	88-83	KC-767	Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B		
1	Cam/Flwr. Kit	88-83	KC-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B		
1	Cam/Lifter/Flwr. Kit	88-83	KC-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B		
1	Cam/Lifter/Timing Kit	88-83	KCT-767	Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B		
1	Cam/Flwr./Timing Kit	88-83	KCT-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B		
1	Cam/Lifter/Flwr./Timing Kit	88-83	KCT-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Arm	88-83	R-873			
8	Arm, Bulk	88-83	R-873B	Carton of 64		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	88-83	V-2299 Std Only	Chrome plated stem; 1.3800" Head Dia., .3414" Stem Dia., 4.8070" O.A.L.		
4	Intake	88-83	V-2300 Std Only	Chrome plated stem; 1.6100" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	88-83	VG-5045	.3440" ID, 2.1800" O.A.L.		
8	Guide	88-83	VG-1372	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	88-83	VS-1459	Incl. damper; 1.9800" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	88-83	ST-2092	Exh. & Int.; O.E. design; Positive type; Rubber		
8	Valve Stem Seal	88-83	ST-2003	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber		
8	Valve Stem Seal	88-83	MV-1828C	Exh. & Int.; Use w/repair guide; Positive type; Polyacrylate		
8	Valve Stem Seal Bulk	88-83	ST-2003BC	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber		
8	Valve Stem Seal Bulk	88-83	MV-1828	Exh. & Int.; Use w/repair guide; Positive type; Carton of 50; Polyacrylate		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Exh.	88-83	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth		
4	Exh.	88-83	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth		
4	Int.	88-83	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth		
4	Int.	88-83	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	88-83	VK-205	4 groove		
16	Keeper	88-83	VK-205R	4 groove; Hardened		

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**3** 2.0L 122 (2007cc) SOHC L4 (8 Valve), 89.3mm Bore 1988-83  
 (cont.) L/D Truck VIN Code "C" 1983-88

QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	88-84	<b>H491P</b> Std-20-30-40-60	Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs	
4	Cast Piston	83	<b>H491P</b> Std-20-30-40-60	From 8/82; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs	
4	Cast Piston - Individual	88-84	<b>WH491P</b> Std-20-30-40-60	Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs	
4	Cast Piston - Individual	83	<b>WH491P</b> Std-20-30-40-60	From 8/82; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.577" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	88-83	<b>E-476K</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM	
1	Standard Set	88-83	<b>E-476X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.76MM	
4	Premium Single Cylinder Set	88-83	<b>WE-476K</b> Std-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	88-83	<b>4979M</b> Std-.25-.50-.75-1.00MM		
1	Rod Set	88-83	<b>4-3545A</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
4	Rod Pair	88-83	<b>3545A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
1	Cam Set	88-83	<b>1443M</b> Std Only		
1	Aux. Shaft Set	88-83	<b>1460M</b>		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	88-83	<b>224-41160</b>		
1	Oil Pump	88-83	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan	
1	Inter. Shaft	88-83	<b>224-61160</b>		
1	Screen Assy.	88-86	<b>224-13160</b>		
1	Screen Assy.	85	<b>224-13160</b>	From 4/9/85	
1	Screen Assy.	85	<b>224-12160</b>	To 4/8/85	
1	Screen Assy.	84-83	<b>224-12160</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	88-87	<b>260-1526</b>	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86	<b>260-1214</b>	To 7/15/86; Premium valve stem seals incl.	
1	Kit Gasket Set	85-83	<b>260-1214</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	88-83	<b>381-8029</b>		
1	Steel Block Plug Kit	88-83	<b>381-4022</b>		
RE-RING KIT				<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
YEARS	DESCRIPTION				
88-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-6186</b> <b>205-6186M</b>	<b>205-1186</b> <b>205-1186M</b>
86	To 7/15/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-891</b> <b>205-891M</b>	<b>205-391</b> <b>205-391M</b>
85-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-891</b> <b>205-891M</b>	<b>205-391</b> <b>205-391M</b>
OVERHAUL KIT				<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
YEARS	DESCRIPTION				
88-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		<b>MKP-6186A</b> <b>MK-6186A</b>	<b>MKP-1186A</b> <b>MK-1186A</b>
88-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		<b>505-6186A</b>	<b>505-1186A</b>
86	To 7/15/86; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons		<b>MKP-891A</b> <b>MK-891A</b>	<b>MKP-391A</b> <b>MK-391A</b>
86	To 7/15/86; Premium valve stem seals incl.	Master w/o Rods & Mains		<b>505-891A</b>	<b>505-391A</b>
85-84	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master		<b>MKP-891A</b>	<b>MKP-391A</b>
85-84	Premium valve stem seals incl.	Master w/o Rods & Mains		<b>505-891A</b>	<b>505-391A</b>
85-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons		<b>MK-891A</b>	<b>MK-391A</b>
83	From 8/82; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master		<b>MKP-891A</b>	<b>MKP-391A</b>

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## Ford Truck (Includes Minivans and SUV's)

2.0L 122 (2007cc) SOHC L4 (8 Valve), 89.3mm Bore 1988-83 <b>3</b> L/D Truck VIN Code "C" 1983-88 (cont.)				
OVERHAUL KIT (cont.)			PREMIUM	ECONOMY
YEARS	DESCRIPTION		KIT NO.	KIT NO.
83	From 8/82; Premium valve stem seals incl.	Master w/o Rods & Mains	505-891A	505-391A
2.2L 134.8 (2209cc) OHV Diesel L4 (8 Valve), 88.9mm Bore (Mazda Eng.) 1984-83 <b>4</b> L/D Truck VIN Code "P" 1983-84, Eng. Code "S2" 1983-84				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-83	6644M	Std.-.25MM
1	Thrust Washer Set	84-83	3971AF	Std Only Position 3
1	Rod Set	84-83	4-3970CP	Std.-.25MM
2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-77 <b>5</b> L/D Truck VIN Codes "A" 1983-97, "B" 1977-80, "2" 1981-82, Eng. Code "WB" 1977-82				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-77	222-14	
1	Timing Belt Tensioner	90-77	222-11BT	
1	Timing Belt & Tensioner Set	90-77	BTS-14	Use w/square tooth sprocket
1	Crank Sprocket	90-77	223-447	19 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-835	
1	Camshaft	87	CS-835	w/rlr. followers
1	Camshaft	87	CS-767	w/Hyd. followers
1	Camshaft	86-83	CS-767	
1	Camshaft	82-77	CS-666	
8	Lifter	90-77	HT-2012	Std Only Hyd. lash adj.; Std. length
8	Lifter, Bulk	90-77	HT-2012B	Std Only Hyd. lash adj.; Std. length; Carton of 120
1	Prelube	90-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	87	KC-767	w/Hyd. followers; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B
1	Cam/Lifter Kit	86-83	KC-767	Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (1) 55-403B
1	Cam/Lifter Kit	82-77	KC-666	Lifters incl.; Rocker arms not incl.; Incl. (1) CS-666, (8) HT-2012, (1) 55-403B
1	Cam/Flwr. Kit	87	KC-767A	w/Hyd. followers; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	86-83	KC-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 55-403B
1	Cam/Flwr. Kit	82-77	KC-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	87	KC-767C	w/Hyd. followers; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	86-83	KC-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Flwr. Kit	82-77	KC-666C	Lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 55-403B
1	Cam/Lifter/Timing Kit	87	KCT-767	w/Hyd. followers; Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-83	KCT-767	Lifters incl.; Hyd. lash adj.; Std. length; Rocker arms not incl.; Incl. (1) CS-767, (8) HT-2012, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	87	KCT-767A	w/Hyd. followers; Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	86-83	KCT-767A	Lifters not incl.; Incl. (1) CS-767, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Flwr./Timing Kit	82-77	KCT-666A	Lifters not incl.; Incl. (1) CS-666, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	87	KCT-767C	w/Hyd. followers; Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	86-83	KCT-767C	Lifters incl.; Hyd. lash adj.; Std. length; Incl. (1) CS-767, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
1	Cam/Lifter/Flwr./Timing Kit	82-77	KCT-666C	Std. length lifters incl.; Incl. (1) CS-666, (8) HT-2012, (8) R-873, (1) 222-14, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	88-77	R-873	
8	Arm, Bulk	88-77	R-873B	w/o rlr. cam; Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-77	V-3943	Std-15 Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.7920" O.A.L.
4	Exhaust, Bulk	90-77	V-3943B15	15 Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3564" Stem Dia., 4.7920" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# Ford Truck (Includes Minivans and SUV's)

**5** 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-77  
 (cont.) L/D Truck VIN Codes "A" 1983-97, "B" 1977-80, "2" 1981-82, Eng. Code "WB" 1977-82

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
4	Intake	90-77	V-2170 Std-15	Chrome plated stem; 1.7350" Head Dia., .3419" Stem Dia., 4.7870" O.A.L.
4	Intake, Bulk	90-77	V-2170B15 15	Chrome plated stem; Carton of 25; 1.7350" Head Dia., .3569" Stem Dia., 4.7870" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-85	VG-5053	.3440" ID, 2.1700" O.A.L.
8	Guide	90-77	VG-1372	Exh. & Int.; Spiral reamed & flanged; .3440" ID, 2.1880" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-83	VS-1459	Incl. damper; 1.9800" Free Height
8	Spring	82-77	VS-857	1.8860" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-80	ST-2092	Exh. & Int.; O.E. design; Positive type; Rubber
8	Valve Stem Seal	90-77	ST-2003	Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
8	Valve Stem Seal Bulk	90-77	ST-2003BC	Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-77	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	90-77	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	90-77	245-1812-2 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-77	VK-205	4 groove
16	Keeper	90-77	VK-205R	4 groove; Hardened
4	Spring Insert	90-77	259-102C	.015"; Carton of 100
4	Spring Insert	90-77	259-102B	.030"; Carton of 100
4	Spring Insert	90-77	259-102A	.060"; Carton of 100
4	Spring Insert	90-77	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-89	H537P Std-20-30-40-60	Use w/E-442KC or E-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston	88-83	H435P Std-20-30-40-60	Use w/E-352K or E-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	88-83	H537P Std-20-30-40-60	Use w/E-442KC or E-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston	84	495P Std-20-30-40	VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	83	495P Std-20-30-40	From 8/82; VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston	82-77	H435P Std-20-30-40-60	Use w/E-352K or E-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	90-89	WH537P Std-20-30-40-60	Use w/WE-442KC or WE-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston - Individual	88-83	WH435P Std-20-30-40-60	Use w/WE-352K or WE-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	88-83	WH537P Std-20-30-40-60	Use w/WE-442KC or WE-442X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.575" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs
4	Cast Piston - Individual	84	W495P Std-20-30-40	VIN Code "A"; Use w/E-442KC or E-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	83	W495P Std-20-30-40	From 8/82; VIN Code "A"; Use w/WE-442KC or WE-442X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Cast Piston - Individual	82-77	WH435P Std-20-30-40-60	Use w/WE-352K or WE-352X ring set; Hypereutectic; 2-2.00mm, 1-4.76mm Ring Groove, 1.578" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs - 8.7:1 C.R.
4	Powerforged	88-77	L-2455F.75MM .75-1.00MM	Use w/E-352K or E-352X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-77 5**  
**L/D Truck VIN Codes "A" 1983-97, "B" 1977-80, "2" 1981-82, Eng. Code "WB" 1977-82 (cont.)**

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
4	Forged Piston - Individual	88-77	<b>WL-2455F.75MM</b> 1.00-.75MM	Use w/WE-352K or WE-352X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.598" CD, .9122" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-85	<b>E-442KC</b> Std.-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-85	<b>E-352K</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Premium Set	84-77	<b>E-352K</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Standard Set	90-85	<b>E-442X</b> Std.-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-85	<b>E-352X</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
1	Standard Set	84-77	<b>E-352X</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set	90-85	<b>WE-352K</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Premium Single Cylinder Set	90-83	<b>WE-442KC</b> Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	84-77	<b>WE-352K</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Standard Single Cylinder Set	90-85	<b>WE-352X</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
4	Standard Single Cylinder Set	84-77	<b>WE-352X</b> Std.-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.76MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	<b>7291MA</b> Std.-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Main Set	88-77	<b>4979M</b> Std.-.25-.50-.75-1.00MM	
1	Rod Set	90-77	<b>4-3545A</b> Std.-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
4	Rod Pair	90-77	<b>3545A</b> Std.-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Cam Set	90-77	<b>1443M</b> Std Only	
1	Cam Set	90-77	<b>1842M</b> Std Only	Spec. oil control brg., differs from O.E. design, 360 Degree OD groove
1	Aux. Shaft Set	90-77	<b>1460M</b>	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-86	<b>224-41127</b>	
1	Oil Pump	85	<b>224-41127</b>	From 4/9/85
1	Oil Pump	85	<b>224-41160</b>	To 4/8/85
1	Oil Pump	85	<b>224-41160V</b>	To 4/8/85; High Volume; Not for use w/Alum. oil pan
1	Oil Pump	84-77	<b>224-41160</b>	
1	Oil Pump	84-77	<b>224-41160V</b>	High Volume; Not for use w/Alum. oil pan
1	Inter. Shaft	90-77	<b>224-61160</b>	
1	Screen Assy.	90-86	<b>224-13160</b>	
1	Screen Assy.	85	<b>224-13160</b>	From 4/9/85
1	Screen Assy.	85	<b>224-12160</b>	To 4/8/85
1	Screen Assy.	84-83	<b>224-12160</b>	
1	Screen Assy.	82-77	<b>224-11160</b>	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	<b>260-1448</b>	PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88	<b>260-1447</b>	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87	<b>260-1218</b>	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1218</b>	From 7/16/86; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1162</b>	To 4/8/85; w/MFI; Premium valve stem seals incl.
1	Kit Gasket Set	84-83	<b>260-1172</b>	Premium valve stem seals incl.
1	Kit Gasket Set	82	<b>260-1161</b>	From 9/29/81; Premium valve stem seals incl.
1	Kit Gasket Set	81	<b>260-1161</b>	From 9/29/81; Premium valve stem seals incl.
1	Kit Gasket Set	81	<b>260-1018</b>	To 9/28/81; Premium valve stem seals incl.
1	Kit Gasket Set	80-77	<b>260-1018</b>	Premium valve stem seals incl.
1	Head Bolt Set	90-77	<b>260-2510</b>	Replacement recommended
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-77	<b>381-8029</b>	
1	Steel Block Plug Kit	90-77	<b>381-4022</b>	

**BLOCK**

**BLOCK**

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**5** 2.3L 140 (2302cc) SOHC L4 (8 Valve), 96mm Bore 1990-77  
 (cont.) L/D Truck VIN Codes "A" 1983-97, "B" 1977-80, "2" 1981-82, Eng. Code "WB" 1977-82

RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6119 205-6119M	205-1119 205-1119M
88	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6118 205-6118M	205-1118 205-1118M
87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-896 205-896M	205-396 205-396M
86	From 7/16/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-896 205-896M	205-396 205-396M
85	To 4/8/85; w/MFI; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-753 205-753M	----- -----
84-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-763 205-763M	205-263 205-263M
82	From 9/29/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-752 205-752M	205-252 205-252M
81	To 9/28/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-646 205-646M	205-146 205-146M
81	From 9/29/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-752 205-752M	205-252 205-252M
80-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-646 205-646M	205-146 205-146M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6110	-----
90-89	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6110	-----
87	w/Hyd. followers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-896A	MK-396A
87	w/Hyd. followers; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-896A	505-396A
86	From 7/16/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	MK-896A	MK-396A
86	From 7/16/86; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-896A	505-396A
84-83	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-763A MK-763A	MKP-263A MK-263A
84-83	Premium valve stem seals incl.	Master w/o Rods & Mains	505-763A	505-263A
82	From 9/29/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-752A MK-752A	MKP-252A MK-252A
82	From 9/29/81; Premium valve stem seals incl.	Master w/o Rods & Mains	505-752A	505-252A
81	To 9/28/81; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-646A MK-646A	MKP-146A MK-146A
81	To 9/28/81; Premium valve stem seals incl.	Master w/o Rods & Mains	505-646A	505-146A
80-77	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-646A MK-646A	MKP-146A MK-146A
80-77	Premium valve stem seals incl.	Master w/o Rods & Mains	505-646A	505-146A

**6** 2.3L 143 (2346cc) SOHC Turbo-Diesel L4 (8 Valve), 91mm Bore (Mitsubishi Eng.) 1987-85  
 L/D Truck VIN Code "E" 1985-87, Eng. Code "4D55-T" 1985-87

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	87-85	222-91	
1	Bal. Shaft Belt	87-85	222-92	

(continued on next page)

## Ford Truck (Includes Minivans and SUV's)

2.3L 143 (2346cc) SOHC Turbo-Diesel L4 (8 Valve), 91mm Bore (Mitsubishi Eng.) 1987-85 <b>6</b>						
L/D Truck VIN Code "E" 1985-87, Eng. Code "4D55-T" 1985-87 (cont.)						
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	16	Keeper	87-85	VK-232		
<b>B L O C K</b>	1	<b>PISTON</b> Pin Bushing Set	87-85	<b>4-68304Y</b>	<b>DESCRIPTION</b>	
	1	<b>ENGINE BEARINGS</b> Main Set	87-85	<b>6593M</b> Std-.25-.50-.75MM	<b>DESCRIPTION</b>	
	1		87-85	<b>4-66675P</b> Std-.25-.50-.75-1.00MM		
	1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	87-85	<b>381-8029</b>	<b>DESCRIPTION</b>	
2.4L 144 OHV L6, 3.5" Bore 1966-60 <b>7</b>						
L/D Truck VIN Codes "D" 1960-62, "S" 1960-66						
<b>V A L V E  T R A I N</b>	1	<b>TIMING</b> 3 Piece Set	64-61	<b>KT3-351S</b>	<b>DESCRIPTION</b> Incl. (1) 222-351, (1) 223-308, (1) 223-397	
	1		64-61	<b>222-351</b>		50 Links
	1		64-61	<b>223-397</b>		19 Teeth
	1		64-61	<b>223-308</b>		38 Teeth
	1	<b>CAMSHAFT/LIFTER</b> Camshaft	64-61	<b>CS-261</b>	<b>DESCRIPTION</b> 14 teeth on dist. drive gear	
	12		64-61	<b>AT-872</b> Std Only		Mech.
	12		64-61	<b>AT-872B</b> Std Only		Mech.; Carton of 122
	1		64-61	<b>55-400</b>		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	<b>CAM KIT</b> Cam/Lifter Kit	64-61	<b>KC-261</b>	<b>DESCRIPTION</b> Mech.; 14 teeth on dist. drive gear; Incl. (12) AT-872, (1) CS-261, (1) 55-403B	
	12	<b>PUSH ROD</b> Push Rod	64-61	<b>RP-3076</b>	<b>DESCRIPTION</b> Std. length; 8.2300" O.A.L.	
	12	<b>ROCKER PARTS</b> Arm	64-61	<b>R-810</b>	<b>DESCRIPTION</b>	
	1		64-61	<b>RS-619</b>		
6	<b>VALVE</b> Exhaust	64-61	<b>V-1439</b> Std Only	<b>DESCRIPTION</b> 1.2660" Head Dia., .3100" Stem Dia., 4.2600" O.A.L.		
12	<b>VALVE SPRING</b> Spring	64	<b>VS-562</b>	<b>DESCRIPTION</b> 2.0000" Free Height		
12		63	<b>VS-624</b>		1.8280" Free Height	
12		62-61	<b>VS-562</b>		w/o Rotocaps; 2.0000" Free Height	
12	<b>VALVE SEAL</b> Valve Stem Seal	64-61	<b>ST-2005</b>	<b>DESCRIPTION</b> Positive type; Installation requires valve guide machining; Rubber/PTFE		
12		64-61	<b>MV-1796A</b>		Umbrella type; Fits Std. to .015" O/S valve stem	
12		64-61	<b>ST-2005BC</b>		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
12		64-61	<b>MV-1796</b>		Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber	
24	<b>VALVE, MISC</b> Keeper	64-61	<b>VK-144</b>	<b>DESCRIPTION</b> 1 groove; Square cut key groove		
24		64-61	<b>VK-144R</b>		1 groove; Square cut key groove; Hardened	
24		64-61	<b>VK-144B</b>		1 groove; Square cut key groove; Carton of 1000	
12		64-61	<b>259-102C</b>		.015"; Carton of 100	
12		64-61	<b>259-102B</b>		.030"; Carton of 100	
12		64-61	<b>259-102A</b>		.060"; Carton of 100	
12		64-61	<b>259-102ARS</b>		.060"; Carton of 500	
1	<b>RINGS</b> Premium Set	64-61	<b>E-197K</b> Std-20-30-40-60	<b>DESCRIPTION</b> 2-5/64, 1-3/16		
1		64-61	<b>E-197X</b> Std-20-30-40-60		2-5/64, 1-3/16	
6		64-61	<b>WE-197K</b> Std-20-30-40		2-5/64, 1-3/16	
6		64-61	<b>WE-197X</b> Std-20-30-40-60		2-5/64, 1-3/16	
1	<b>ENGINE BEARINGS</b> Main Set	64-60	<b>4222M</b> Std-10-20	<b>DESCRIPTION</b>		
1		64-60	<b>6-2380CP</b> Std-1-10-20-30-40			
6		64-60	<b>2380CP</b> Std-1-10-20-30-40			
1		64-60	<b>1439M</b> Std Only			
1	<b>GASKETS</b> Kit Gasket Set	66-60	<b>260-1002</b>	<b>DESCRIPTION</b> Premium valve stem seals incl.		
<b>B L O C K</b>	1	<b>ENGINE BEARINGS</b> Main Set	64-60	<b>4222M</b> Std-10-20	<b>DESCRIPTION</b>	
	1		64-60	<b>6-2380CP</b> Std-1-10-20-30-40		
	6		64-60	<b>2380CP</b> Std-1-10-20-30-40		
	1		64-60	<b>1439M</b> Std Only		
1	<b>GASKETS</b> Kit Gasket Set	66-60	<b>260-1002</b>	<b>DESCRIPTION</b> Premium valve stem seals incl.		

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# Ford Truck (Includes Minivans and SUV's)

**7 2.4L 144 OHV L6, 3.5" Bore 1966-60**  
 (cont.) L/D Truck VIN Codes "D" 1960-62, "S" 1960-66

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	66-61	381-8013	

RE-RING KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
64-61	Premium valve stem seals incl.	Re-ring	205-605	205-105

**8 2.8L 170 OHV L6, 3.5" Bore 1972-61**  
 L/D Truck VIN Codes "F" 1966-72, "U" 1961-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	72-62	KT3-351S	Incl. (1) 222-351, (1) 223-308, (1) 223-397
1	Timing Chain	72-62	222-351	50 Links
1	Crank Sprocket	72-62	223-397	19 Teeth
1	Cam Sprocket	72-62	223-308	38 Teeth

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	72-62	CS-261	14 teeth on dist. drive gear
12	Lifter	72-62	AT-872 Std Only	Mech.
12	Lifter, Bulk	72-62	AT-872B Std Only	Mech.; Carton of 122
1	Prelube	72-62	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	72-62	KC-261	Mech.; 14 teeth on dist. drive gear; Incl. (12) AT-872, (1) CS-261, (1) 55-403B

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	70-62	RP-3076	Std. length; 8.2300" O.A.L.

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	72-62	R-810	
1	Rocker Shaft	72-62	RS-619	

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	72-65	V-1983 Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.
6	Exhaust	64-62	V-1439 Std Only	1.2660" Head Dia., .3100" Stem Dia., 4.2600" O.A.L.
6	Intake	72-65	V-1717 Std Only	w/o Chrome plated stem; 1.6555" Head Dia., .3102" Stem Dia., 4.2638" O.A.L.

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	72-64	VS-562	2.0000" Free Height
12	Spring	63	VS-624	1.8280" Free Height
12	Spring	62	VS-562	2.0000" Free Height

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	72-62	ST-2005	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	72-62	MV-1796A	Umbrella type; Fits Std. to .015" O/S valve stem
12	Valve Stem Seal Bulk	72-62	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	72-62	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	72-65	245-1437-3 Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	72-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
6	Exh.	64-62	245-1375-4 Std Only	1.3795" OD, 1.1250" ID, .1855" Depth
6	Int.	64-62	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	72-62	VK-144	1 groove; Square cut key groove
24	Keeper	72-62	VK-144R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	72-62	VK-144B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	72-62	259-102C	.015"; Carton of 100
12	Spring Insert	72-62	259-102B	.030"; Carton of 100
12	Spring Insert	72-62	259-102A	.060"; Carton of 100
12	Spring Insert	72-62	259-102ARS	.060"; Carton of 500

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	72-61	302NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9122" Pin Dia., Flat Head - 8.5:1 C.R.
6	Cast Piston - Individual	72-61	W302NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9122" Pin Dia., Flat Head - 8.5:1 C.R.

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	72-62	E-197K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	72-62	E-197X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	72-62	WE-197K Std-20-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	72-62	WE-197X Std-20-30-40-60	2-5/64, 1-3/16

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# Ford Truck (Includes Minivans and SUV's)

**2.8L 170 OHV L6, 3.5" Bore 1972-61 8**

L/D Truck VIN Codes "F" 1966-72, "U" 1961-65 (cont.)

	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
<b>B L O C K</b>	1	Main Set	72-61	4222M Std-10-20		
	1	Rod Set	72-61	6-2380CP Std-1-10-20-30-40		
	6	Rod Pair	72-61	2380CP Std-1-10-20-30-40		
	1	Cam Set	72-61	1439M Std Only		
<b>B L O C K</b>	QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	72-65	224-41146		
	1	Inter. Shaft	72-65	224-61120		
	1	Screen Assy.	72-66	224-11146	Exc. Bronco	
<b>B L O C K</b>	QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	72-61	260-1002	Premium valve stem seals incl.	
	QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	72-61	381-8013		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION		Re-ring	205-605	205-105
<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION		Master Master w/o Pistons	MKP-605D MK-605D	MKP-105D MK-105D
<b>2.8L 171 (2792cc) OHV V6 (12 Valve), 93mm Bore 1986-83</b>					<b>9</b>	
L/D Truck VIN Code "S" 1983-86						
<b>V A L V E T R A I N</b>	QTY	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Gear Set	86-83	221-2760SA		
	QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	86-83	CS-745		
	12	Lifter	86-83	AT-872 Std Only	Mech.	
	12	Lifter, Bulk	86-83	AT-872B Std Only	Mech.; Carton of 122	
	1	Prelube	86-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	86-83	KC-745	Mech.; Incl. (12) AT-872, (1) CS-745, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	86-83	KCT-745	Mech.; Incl. (12) AT-872, (1) CS-745, (1) 221-2760SA, (1) 55-403B	
	QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Push Rod	86-83	RP-3233	5.4290" O.A.L.	
12	Push Rod, Bulk	86-83	BRP-3233	Carton of 100; 5.4290" O.A.L.		
QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Arm	86-83	R-907			
2	Rocker Shaft	86-83	RS-637			
QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exhaust	86-83	V-1992 Std Only	Chrome plated stem; 1.2690" Head Dia., .3154" Stem Dia., 4.1620" O.A.L.		
QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Guide	86-83	VG-5016	.3175" ID, 2.0000" O.A.L.		
12	Guide	86-83	VG-5016T	Threaded; .3175" ID, 2.0000" O.A.L.		
QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Spring	86-83	VS-827	2.0500" Free Height		
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
24	Valve Stem Seal	86-83	MV-1828C	Positive type; Polyacrylate		
24	Valve Stem Seal Bulk	86-83	MV-1828	Positive type; Carton of 50; Polyacrylate		
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exh.	86-83	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth		
6	Int.	86-83	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth		
6	Int.	86-83	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth		
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Keeper	86-83	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.		
12	Keeper	86-83	VK-144	Int.; 1 groove; Square cut key groove		
12	Keeper	86-83	VK-144R	Int.; 1 groove; Square cut key groove; Hardened		
12	Keeper, Bulk	86-83	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000		
QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Cast Piston	86-83	433NP Std-20-30-40-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.511" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.		
6	Cast Piston - Individual	86-83	W433NP Std-20-30-40-60	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 1.511" CD, .9447" Pin Dia., Flat Head - 8.0:1 C.R.		

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# Ford Truck (Includes Minivans and SUV's)

**9** 2.8L 171 (2792cc) OHV V6 (12 Valve), 93mm Bore 1986-83  
 (cont.) L/D Truck VIN Code "S" 1983-86

QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	86-83	<b>E-351KC</b> Std.-50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM	
1	Standard Set	86-83	<b>E-351X</b> Std.-50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM	
6	Premium Single Cylinder Set	86-83	<b>WE-351KC</b> Std.-50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM	
6	Standard Single Cylinder Set	86-83	<b>WE-351X</b> Std.-50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	86-83	<b>6101MA</b> Std-10-20-30	w/flanged brg.; <b>A-Series aluminum bearings</b> ; Flanged brg.	
1	Main Set	86-83	<b>7269MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.	
1	Rod Set	86-83	<b>6-3055CP</b> Std-10-20-30		
1	Rod Set	86-83	<b>6-3055CP10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore	
6	Rod Pair	86-83	<b>3055CP</b> Std-10-20-30		
1	Cam Set	86-83	<b>1838M</b> Std Only	Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	86-83	<b>224-41163</b>		
1	Oil Pump	86-83	<b>224-41163V</b>	High Volume, check pan for clearance	
1	Inter. Shaft	86-83	<b>224-61163</b>		
1	Screen Assy.	86-83	<b>224-14256</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	86	<b>260-1219</b>	Aerostar; Exh. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86	<b>260-1219</b>	Exc. Aerostar; Premium valve stem seals incl.	
1	Kit Gasket Set	85-83	<b>260-1219</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	86-83	<b>381-8030</b>		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
86	Aerostar; Exh. manifold gskt. not incl.; w/flanged brg.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-897M</b>	<b>205-397M</b>
86	Aerostar; Exh. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-897</b>	<b>205-397</b>
86	Exc. Aerostar; w/flanged brg.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-897M</b>	<b>205-397M</b>
86	Exc. Aerostar; Premium valve stem seals incl.	Re-ring		<b>205-897</b>	<b>205-397</b>
85-83	w/flanged brg.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-897M</b>	<b>205-397M</b>
85-83	Premium valve stem seals incl.	Re-ring		<b>205-897</b>	<b>205-397</b>

**10** 2.9L 177 (2935cc) OHV V6 (12 Valve), 93mm Bore 1990-86  
 L/D Truck VIN Code "T" 1986-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-86	<b>KT3-60S</b>	Incl. (1) 222-3SR60X, (1) 223-650, (1) 223-651
1	Timing Chain	90-86	<b>222-3SR60X</b>	60 Links
1	Timing Chain Tensioner	90-86	<b>222-157CT</b>	
1	Timing Chain Guide	90-86	<b>222-187GP</b>	
1	Crank Sprocket	90-86	<b>223-651</b>	19 Teeth
1	Cam Sprocket	90-86	<b>223-650</b>	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	<b>CS-814</b>	Hyd.
12	Lifter	90-86	<b>HT-2083</b> Std Only	Hyd.; Carton of 122
12	Lifter, Bulk	90-86	<b>HT-2083B</b> Std Only	Hyd.; Carton of 122
1	Prelube	90-86	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-86	<b>KC-814</b>	Hyd.; Incl. (1) CS-814, (12) HT-2083, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-86	<b>KCT-814</b>	Hyd.; Incl. (1) CS-814, (12) HT-2083, (1) KT3-60S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-86	<b>RP-3233</b>	5.4290" O.A.L.
12	Push Rod, Bulk	90-86	<b>BRP-3233</b>	Carton of 100; 5.4290" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	90-86	<b>R-1093</b>	

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# Ford Truck (Includes Minivans and SUV's)

2.9L 177 (2935cc) OHV V6 (12 Valve), 93mm Bore 1990-86 **10**  
L/D Truck VIN Code "T" 1986-92 (cont.)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
2	Rocker Shaft	90-86	RS-637	
<b>VALVE TRAIN</b>				
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90-86	V-2553 Std-15	Chrome plated stem; 1.4170" Head Dia., .3153" Stem Dia., 4.1350" O.A.L.
6	Exhaust, Bulk	90-86	V-2553B Std-15	Chrome plated stem; Carton of 25; 1.4170" Head Dia., .3153" Stem Dia., 4.1350" O.A.L.
6	Intake	90-86	V-2554 Std-15	Chrome plated stem; 1.6530" Head Dia., .3160" Stem Dia., 4.1340" O.A.L.
6	Intake, Bulk	90-86	V-2554B Std-15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3160" Stem Dia., 4.1340" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	90-86	VG-5016	Exh. & Int.; .3175" ID, 2.0000" O.A.L.
12	Guide	90-86	VG-5016T	Exh. & Int.; Threaded; .3175" ID, 2.0000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	90-86	VS-1567	2.1750" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	90-86	ST-2109	Exh. & Int.; Positive type; Viton®
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-86	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90-86	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90-86	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	90-86	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Keeper	90-86	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.
12	Keeper	90-86	VK-144	Int.; 1 groove; Square cut key groove
12	Keeper	90-86	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	90-86	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90-86	520P Std-.50-.75-1.00-1.50MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
6	Cast Piston - Individual	90-86	W520P Std-.50-.75-1.00-1.50MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-86	6K520P.75MM .75-1.00MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.525" CD, .9447" Pin Dia., Recessed Head .165" deep x 2.580" dia. - 9.0:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-86	E-481K Std-.50-.75-1.00-1.50MM	1-1.60MM, 1-1.75MM, 1-3.50MM
1	Standard Set	90-86	E-481X Std-.50-.75-1.00-1.50MM	1-1.60MM, 1-1.75MM, 1-3.50MM
6	Premium Single Cylinder Set	90-86	WE-481K Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
6	Standard Single Cylinder Set	90-86	WE-481X Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90	7246MA10 10-20-30	<b>A-Series aluminum bearings;</b> .020" O/S length flange brg.
1	Main Set	90	7245MA Std-10-20-30	<b>A-Series aluminum bearings;</b> Full flange thrust brg.
1	Main Set	89-86	7269MA10 10-20-30	<b>A-Series aluminum bearings;</b> .020" O/S length flange brg.
1	Main Set	89-86	6101MA Std-10-20-30	<b>A-Series aluminum bearings;</b> Flanged brg.
1	Rod Set	90-86	6-3055CP Std-10-20-30	
1	Rod Set	90-86	6-3055CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
6	Rod Pair	90-86	3055CP Std-10-20-30	
1	Cam Set	90-86	1838M Std Only	Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90-86	224-43431	
1	Inter. Shaft	90-86	224-14274	
1	Screen Assy.	90-86	224-12255	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-87	260-1220	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	260-1220	Oil pan gskt. to 10/15/85 not incl.; PermaDry® molded rubber oil pan gskt. from 10/16/85 incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-86	260-2509	Replacement recommended
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	90-86	381-8064	
<b>BLOCK</b>				

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# Ford Truck (Includes Minivans and SUV's)

**10** 2.9L 177 (2935cc) OHV V6 (12 Valve), 93mm Bore 1990-86  
(cont.) L/D Truck VIN Code "T" 1986-92

RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.	Re-ring w/Mains	205-6262M	205-1262M
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-898	205-398
89-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-898	205-398
89-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.	Re-ring w/Mains	205-898M	205-398M
86	Oil pan gskt. to 10/15/85 not incl.; PermaDry® molded rubber oil pan gskt. from 10/16/85 incl.; Premium valve stem seals incl.	Re-ring	205-898	205-398
86	Oil pan gskt. to 10/15/85 not incl.; PermaDry® molded rubber oil pan gskt. from 10/16/85 incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.	Re-ring w/Mains	205-898M	205-398M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flange thrust brg. incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	Block w/Pump & Freeze Plugs	BKP-6117	----
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Full flanged thrust brg. incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	Block	BK-6117	----
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	Master w/o Rods & Mains	505-898C	505-398C
90	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design; Incl. <b>A-Series aluminum bearings</b> ; Full flanged thrust brg. incl.	Master Master w/o Pistons	MKP-898C MK-898C	MKP-398C MK-398C
89-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design; Incl. <b>A-Series aluminum bearings</b> ; Full flanged thrust brg. incl.	Master Master w/o Pistons	MKP-898A MK-898A	MKP-398A MK-398A
89-87	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	Master w/o Rods & Mains	505-898C	505-398C
86	Oil pan gskt. to 10/15/85 not incl.; PermaDry® molded rubber oil pan gskt. from 10/16/85 incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design; Incl. <b>A-Series aluminum bearings</b> ; Full flanged thrust brg. incl.	Master Master w/o Pistons	MKP-898A MK-898A	MKP-398A MK-398A
86	Oil pan gskt. to 10/15/85 not incl.; PermaDry® molded rubber oil pan gskt. from 10/16/85 incl.; Premium valve stem seals incl.; Incl. No. 2 & 3 spec. oil control brgs. w/360 deg. OD groove that differs from O.E. design	Master w/o Rods & Mains	505-898C	505-398C

**11** 3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86  
L/D Truck VIN Codes "U" 1986-2008, "V" 1999-2008 (Flex Fuel)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-86	KT3-374S	Incl. (1) 222-374, (1) 223-636, (1) 223-649
1	Timing Chain	90-86	222-374	62 Links
1	Crank Sprocket	90-86	223-649	19 Teeth
1	Cam Sprocket	90-86	223-636	38 Teeth

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# Ford Truck (Includes Minivans and SUV's)

**3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86 11**  
**L/D Truck VIN Codes "U" 1986-2008, "V" 1999-2008 (Flex Fuel) (cont.)**

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	<b>CS-787</b>	
12	Lifter	90-86	<b>HT-900</b> Std Only	Hyd.
12	Lifter, Bulk	90-86	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
1	Prelube	90-86	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90-86	<b>KC-787</b>	Hyd.; Incl. (1) CS-787, (12) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-86	<b>KCT-787</b>	Hyd.; Incl. (1) CS-787, (12) HT-900, (1) KT3-374S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90-86	<b>RP-3281</b>	5.9600" O.A.L.
12	Push Rod, Bulk	90-86	<b>BRP-3281</b>	Carton of 100; 5.9600" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	90-86	<b>R-1007</b>	Incl. arm & pivot
12	Pivot	90-86	<b>MR-1881</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90-86	<b>V-3957</b> Std-15	Chrome plated stem; 1.3710" Head Dia., .3125" Stem Dia., 4.6150" O.A.L.
6	Exhaust, Bulk	90-86	<b>V-3957B15</b> 15	Chrome plated stem; Carton of 25; 1.3710" Head Dia., .3275" Stem Dia., 4.6150" O.A.L.
6	Intake	90-86	<b>V-2448</b> Std-15	Chrome plated stem; 1.6610" Head Dia., .3130" Stem Dia., 4.6150" O.A.L.
6	Intake, Bulk	90-86	<b>V-2448B15</b> 15	Chrome plated stem; Carton of 25; 1.6610" Head Dia., .3280" Stem Dia., 4.6150" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	90-86	<b>VG-5085T</b>	.3150" ID, 2.2000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	90-86	<b>VS-1462</b>	1.8400" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Valve Stem Seal	90-86	<b>ST-2103</b>	Exh.; Positive type; Rubber
6	Valve Stem Seal	90-86	<b>ST-2102</b>	Int.; Positive type; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-86	<b>245-1437-3N</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	90-86	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	90-86	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	90-86	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	90-86	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90-86	<b>H497P</b> Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.
6	Cast Piston - Individual	90-86	<b>WH497P</b> Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-86	<b>6KH497P.50MM</b> .50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.515" CD, .9122" Pin Dia., Flat Head - 9.2:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-86	<b>E-446K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-86	<b>E-446KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-86	<b>E-446X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-86	<b>WE-446K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	90-86	<b>WE-446X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-86	<b>7011MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-86	<b>6-1220RA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>
1	Rod Pair	90-86	<b>1220RA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>
1	Cam Set	90-86	<b>1843M</b> Std Only	Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90	<b>224-43636S</b>	From 3/26/90
1	Oil Pump	90	<b>224-43434S +</b>	From 3/26/90; Incl. screen; When depleted use 224-43636S
1	Oil Pump	90	<b>224-41101</b>	To 3/25/90
1	Oil Pump	89-86	<b>224-41101</b>	
1	Inter. Shaft	90-86	<b>224-6175</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90	<b>260-1556</b>	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**11** 3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86  
 (cont.) L/D Truck VIN Codes "U" 1986-2008, "V" 1999-2008 (Flex Fuel)

QTY	GASKETS (cont.)		YEARS	PART NO.	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
	1	Kit Gasket Set		90	260-1222		
1	Kit Gasket Set		89-86	260-1222	Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	205-6120M	205-1120M
1	Head Bolt Set		90-86	260-2515	Replacement recommended		
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit		90-86	381-8072			
RE-RING KIT							
YEARS	DESCRIPTION						
90	To 3/25/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains		205-6120 205-6120M	205-1120 205-1120M
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains		205-6212 205-6212M	205-1212 205-1212M
89	Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains		205-6120 205-6120M	205-1120 205-1120M
88-86	Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains		205-6120 205-6120M	205-1120 205-1120M
OVERHAUL KIT							
YEARS	DESCRIPTION						
90	To 3/25/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Block w/Pump & Freeze Plugs		BKP-6119	----
90	To 3/25/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>			Block		BK-6119	----
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Block w/Pump & Freeze Plugs		BKP-6120	----
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>			Block		BK-6120	----
90	To 3/25/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master Master w/o Pistons		MKP-6120A MK-6120A	MKP-1120A MK-1120A
90	To 3/25/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master w/o Rods & Mains		505-6120A	505-1120A
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; Oil pump not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master Master w/o Pistons		MKP-6212A MK-6212A	MKP-1212A MK-1212A
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Oil pump not incl.			Master w/o Rods & Mains		505-6212A	505-1212A
90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master Master w/o Pistons		MKP-7033 MK-7033	MKP-2033 MK-2033

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# Ford Truck (Includes Minivans and SUV's)

**3.0L 183 (2982cc) OHV V6 (12 Valve/Vulcan), 89mm Bore 1990-86 11**  
**L/D Truck VIN Codes "U" 1986-2008, "V" 1999-2008 (Flex Fuel) (cont.)**

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>		
	90	From 3/26/90; Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-7033 505-2033
	89	Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6120A MK-6120A MKP-1120A MK-1120A
	89	Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6120A 505-1120A
	89-86	Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6119 ----
	89-86	Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6119 ----
	88-86	Aerostar & Ranger; w/Stamped steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons	MKP-6120A MK-6120A MKP-1120A MK-1120A
88-86	Aerostar & Ranger; w/Stamped steel valve covers; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6120A 505-1120A	

**3.3L 200 OHV L6, 3.68" Bore 1974-64 12**  
**L/D Truck VIN Code "T" 1964-68 & 1973-74**

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
V A L V E  T R A I N	1	3 Piece Set	74-73	<b>KT3-351S</b>	Incl. (1) 222-351, (1) 223-308, (1) 223-397
	1	3 Piece Set	68-65	<b>KT3-351S</b>	Incl. (1) 222-351, (1) 223-308, (1) 223-397
	1	Timing Chain	74-73	<b>222-351</b>	50 Links
	1	Timing Chain	68-65	<b>222-351</b>	50 Links
	1	Crank Sprocket	74-73	<b>223-397</b>	19 Teeth
	1	Crank Sprocket	68-65	<b>223-397</b>	19 Teeth
	1	Cam Sprocket	74-73	<b>223-308</b>	38 Teeth
	1	Cam Sprocket	68-65	<b>223-308</b>	38 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	65	<b>CS-448</b>	Hyd.
	12	Lifter	74-73	<b>HT-2083</b> Std Only	Hyd.
	12	Lifter	65	<b>HT-2083</b> Std Only	Hyd.
12	Lifter, Bulk	74-73	<b>HT-2083B</b> Std Only	Hyd.; Carton of 122	
12	Lifter, Bulk	65	<b>HT-2083B</b> Std Only	Hyd.; Carton of 122	
1	Prelube	65	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Cam/Lifter Kit	65	<b>KC-448</b>	Hyd.; Incl. (1) CS-448, (12) HT-2083, (1) 55-403B	
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Push Rod	65	<b>RP-3176</b>	Std. length; 8.3500" O.A.L.	
12	Push Rod, Bulk	65	<b>BRP-3176</b>	Std. length; Carton of 100; 8.3500" O.A.L.	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rocker Shaft	65	<b>RS-619</b>		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Exhaust	65	<b>V-1983</b> Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.	
6	Intake	65	<b>V-1717</b> Std Only	w/o Chrome plated stem; 1.6555" Head Dia., .3102" Stem Dia., 4.2638" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Spring	65	<b>VS-624</b>	1.8280" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Valve Stem Seal	74-73	<b>ST-2005</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	68-65	<b>ST-2005</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	74-73	<b>MV-1796A</b>	Umbrella type; Fits Std. to .015" O/S valve stem	
12	Valve Stem Seal	68-65	<b>MV-1796A</b>	Umbrella type; Fits Std. to .015" O/S valve stem	

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# Ford Truck (Includes Minivans and SUV's)

**12 3.3L 200 OHV L6, 3.68" Bore 1974-64**  
 (cont.) L/D Truck VIN Code "T" 1964-68 & 1973-74

VALVE TRAIN		QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
VALVE TRAIN		12	Valve Stem Seal Bulk	74-73	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	VALVE TRAIN	
		12	Valve Stem Seal Bulk	74-73	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber		
		12	Valve Stem Seal Bulk	68-65	ST-2005BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
		12	Valve Stem Seal Bulk	68-65	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber		
VALVE TRAIN		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
		24	Keeper	74-73	VK-144	1 groove; Square cut key groove		
		24	Keeper	74-73	VK-144R	1 groove; Square cut key groove; Hardened		
		24	Keeper	65	VK-144	1 groove; Square cut key groove		
		24	Keeper	65	VK-144R	1 groove; Square cut key groove; Hardened		
		24	Keeper, Bulk	74-73	VK-144B	1 groove; Square cut key groove; Carton of 1000		
		24	Keeper, Bulk	65	VK-144B	1 groove; Square cut key groove; Carton of 1000		
		12	Spring Insert	65	259-102C	.015"; Carton of 100		
		12	Spring Insert	65	259-102B	.030"; Carton of 100		
		12	Spring Insert	65	259-102A	.060"; Carton of 100		
		12	Spring Insert	65	259-102ARS	.060"; Carton of 500		
		BLOCK		QTY	PISTON	YEARS		
6	Cast Piston			74-73	275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.		
6	Cast Piston			68-65	275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.		
6	Cast Piston - Individual			74-73	W275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.		
6	Cast Piston - Individual			68-65	W275NP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.		
QTY	RINGS			YEARS	PART NO.	DESCRIPTION		
1	Premium Set			74-73	E-219K Std-20-30-40-60	2-5/64, 1-3/16		
1	Premium Set			68-65	E-219K Std-20-30-40-60	2-5/64, 1-3/16		
1	Standard Set			74-73	E-219X Std-20-30-40-60	2-5/64, 1-3/16		
1	Standard Set			68-65	E-219X Std-20-30-40-60	2-5/64, 1-3/16		
6	Premium Single Cylinder Set			74-73	WE-219K Std-20-30-40-60	2-5/64, 1-3/16		
6	Premium Single Cylinder Set			68-65	WE-219K Std-20-30-40-60	2-5/64, 1-3/16		
6	Standard Single Cylinder Set			74-73	WE-219X Std-20-30-40-60	2-5/64, 1-3/16		
6	Standard Single Cylinder Set			68-65	WE-219X Std-20-30-40-60	2-5/64, 1-3/16		
QTY	ENGINE BEARINGS			YEARS	PART NO.	DESCRIPTION		
1	Main Set			74-73	4290M Std-10-20-30	7 full groove brgs.		
1	Main Set	68-65	4290M Std-10-20-30	7 full groove brgs.				
1	Rod Set	74-73	6-2380CP Std-1-10-20-30-40					
1	Rod Set	68-65	6-2380CP Std-1-10-20-30-40					
6	Rod Pair	74-73	2380CP Std-1-10-20-30-40					
6	Rod Pair	68-65	2380CP Std-1-10-20-30-40					
1	Cam Set	74-73	1439M Std Only					
1	Cam Set	68-65	1439M Std Only					
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION				
1	Oil Pump	74-73	224-41146					
1	Oil Pump	65	224-41146					
1	Inter. Shaft	74-73	224-61120					
1	Inter. Shaft	65	224-61120					
1	Screen Assy.	65	224-11146					
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION				
1	Kit Gasket Set	74-73	260-1002	Premium valve stem seals incl.				
1	Kit Gasket Set	68-64	260-1002	Premium valve stem seals incl.				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit	74-73	381-8013					
1	Brass Block Plug Kit	68-64	381-8013					
KITS		RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	KITS	
		YEARS	DESCRIPTION					
		74-73	Premium valve stem seals incl.; Incl. 7 full groove main brgs.	Re-ring w/Mains	205-608M	205-108M		
		74-73	Premium valve stem seals incl.	Re-ring	205-608A	205-108A		
		68-65	Premium valve stem seals incl.; Incl. 7 full groove main brgs.	Re-ring w/Mains	205-608M	205-108M		
68-65	Premium valve stem seals incl.	Re-ring	205-608A	205-108A				

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# Ford Truck (Includes Minivans and SUV's)

**3.3L 200 OHV L6, 3.68" Bore 1974-64 12**  
**L/D Truck VIN Code "T" 1964-68 & 1973-74 (cont.)**

	<b>OVERHAUL KIT YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	65	Premium valve stem seals incl.	Master w/o Rods & Mains	505-608A	505-108A
	65	Premium valve stem seals incl.; Incl. 7 full groove main brgs.	Master Master w/o Pistons	MKP-608A MK-608A	MKP-108A MK-108A

**3.5L 215 OHV L6, 3.5625" Bore 1953-52 13**  
**L/D Truck**

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>VALVE TRAIN</b>	1	Timing Chain	53-52	222-354	Silent type; 1" wide chain; 56 Links
	1	Crank Sprocket	53-52	223-250	Use w/silent type chain; 21 Teeth
	1	Cam Sprocket	53-52	223-249	Use w/silent type chain; 42 Teeth
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Push Rod	53-52	RP-3021	9.8200" O.A.L.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	53-52	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Guide	53-52	VG-5034	Cut to fit; .3430" ID, 2.5000" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	53-52	VS-1575	2.1250" Free Height
	12	Spring, Bulk	53-52	VS-1575B	Carton of 250; 2.1250" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Valve Stem Seal	53-52	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	53-52	MV-1903	Use w/VG-5034 repair guide; Positive type; Rubber	
12	Valve Stem Seal	53-52	MV-1233C	O-Ring; Rubber	
12	Valve Stem Seal Bulk	53-52	MV-1233	O-Ring; Carton of 100; Rubber	
12	Valve Stem Seal Bulk	53-52	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	53-52	VK-115	1 groove; Square cut key groove	
24	Keeper	53-52	VK-115R	1 groove; Square cut key groove; Hardened	
24	Keeper, Bulk	53-52	VK-115B	1 groove; Square cut key groove; Carton of 1000	
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Pin Bushing	53-52	1834V20	1.306" length; .020" extra bore stock
	6	Pin Bushing	53-52	1834V	1.306" max. length
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	53-52	E-237KC Std-20-30-40-60	2-3/32, 1-3/16
	1	Standard Set	53-52	E-237X Std-20-30-40-60-80	2-3/32, 1-3/16
	6	Premium Single Cylinder Set	53-52	WE-237KC Std-20-30-40-60	2-3/32, 1-3/16
	6	Standard Single Cylinder Set	53-52	WE-237X Std-30-40-60-80	2-3/32, 1-3/16
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	53-52	4056M Std-10-20-30	
6	Rod Pair	53-52	1830CP Std-1-2-10-20-30-40-50	1 oil hole	
1	Cam Set	53-52	1133M Std Only	w/o cross-drilled cam journals	

**3.6L 221 L-HEAD V8 (Ford), 3.0625" Bore 1942-32 14**  
**L/D Truck**

	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Spring	42-32	VS-393	2.4800" Free Height
<b>BLOCK</b>	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	32	Keeper	42-32	VK-88	Valve guide retainer
	16	Spring Insert	42-32	259-102C	.015"; Carton of 100
	16	Spring Insert	42-32	259-102B	.030"; Carton of 100
	16	Spring Insert	42-32	259-102A	.060"; Carton of 100
	16	Spring Insert	42-32	259-102ARS	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Pin Bushing	42-39	9024XBS	.820" max. housing bore	
8	Pin Bushing	42-39	9024V	Split type bushing; .801" max. housing bore	
8	Pin Bushing	42-39	9024VA	Split type bushing; .8125" max. housing bore	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	42-39	533M Std-10-20-30		
8	Rod Pair	42-39	9800CA Std-10-20-30		
1	Cam Set	42-39	1005M Std Only		

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# Ford Truck (Includes Minivans and SUV's)

## 14 3.6L 221 L-HEAD V8 (Ford), 3.0625" Bore 1942-32 (cont.) L/D Truck

QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	42-32	224-41108	w/drive gear

## 15 3.6L 223 OHV L6, 3.625" Bore 1964-54 L/D Truck VIN Codes "A" 1954-59, "J" 1960-64, "V" 1960-64

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	64-54	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	64-54	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	64-54	223-249	Use w/silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	64-54	CS-559	12 teeth on dist. drive gear
1	Prelube	64-54	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	64-54	RP-3021	9.8200" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	64-54	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
6	Intake	64-54	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	64-54	VG-5034	Cut to fit; .3430" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	64-54	VS-1575	2.1250" Free Height
12	Spring, Bulk	64-54	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	64-54	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	64-54	MV-1903	Use w/VG-5034 repair guide; Positive type; Rubber
12	Valve Stem Seal	64-54	MV-1599C	Umbrella type; Rubber
12	Valve Stem Seal Bulk	64-54	MV-1599	Umbrella type; Carton of 100; Rubber
12	Valve Stem Seal Bulk	64-54	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	64-54	VK-115	1 groove; Square cut key groove
24	Keeper	64-54	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	64-54	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	64-54	1011P Std-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 1.858" CD, .9122" Pin Dia., Flat Head - 8.3:1 C.R.
6	Cast Piston - Individual	64-54	W1011P Std-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 1.858" CD, .9122" Pin Dia., Flat Head - 8.3:1 C.R.
6	Pin Bushing	64-61	2469V	1.276" length
6	Pin Bushing	60-54	1834V20	1.306" length; .020" extra bore stock
6	Pin Bushing	60-54	1834V	1.306" max. length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	64-54	E-156X Std-30-40-60	2-3/32, 1-3/16
6	Standard Single Cylinder Set	64-54	WE-156X Std-60	2-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	64-54	4056M Std-10-20-30	
6	Rod Pair	64-61	2465CPB Std-10-20	3 oil holes
6	Rod Pair	60-54	1830CP Std-1-2-10-20-30-40-50	1 oil hole
1	Cam Set	64-54	1133M Std Only	w/o cross-drilled cam journals
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	61	224-41105	To 11/30/60; 1/4" drive & roll pin shaft retainer
1	Oil Pump	60-55	224-41105	1/4" drive & roll pin shaft retainer
1	Inter. Shaft	60	224-61104	To Ser. No. 320000; For gear type oil pump
1	Inter. Shaft	59-55	224-61104	For gear type oil pump

## 16 3.7L 226 L-HEAD L6, 3.2969" Bore 1951-47 L/D Truck

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	51-47	VG-406	.3435" ID, 2.9210" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	51-48	245-1625-15 Std Only	1.6300" OD, 1.3750" ID, .2656" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	51-47	VK-115	1 groove; Square cut key groove
24	Keeper	51-47	VK-115R	1 groove; Square cut key groove; Hardened

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## Ford Truck (Includes Minivans and SUV's)

**3.7L 226 L-HEAD L6, 3.2969" Bore 1951-47 16**  
L/D Truck (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
24	Keeper, Bulk	51-47	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	PISTON Pin Bushing	51-47	1229VA	DESCRIPTION
1	ENGINE BEARINGS Main Set	51-47	645M10 10-20	DESCRIPTION
6	Rod Pair	51-47	1525CA10 10-20	
1	Cam Set	51-47	1089M Std Only	

**3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1983-82 17**  
L/D Truck VIN Codes "C" 1982-83, "3" 1982-83, "4" 1995-2003

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	83-82	KT3-365SA	Incl. (1) 222-365, (1) 223-539, (1) 223-542A
1	Timing Chain	83-82	222-365	60 Links
1	Crank Sprocket	83-82	223-539	21 Teeth
1	Cam Sprocket	83-82	223-542A	42 Teeth
1	CAMSHAFT/LIFTER Camshaft	83-82	CS-733	DESCRIPTION
12	Lifter	83-82	HT-900 Std Only	Hyd.
12	Lifter, Bulk	83-82	HT-900B Std Only	Hyd.; Carton of 122
1	Prelube	83-82	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	CAM KIT Cam/Lifter Kit	83-82	KC-733	Hyd.; Incl. (1) CS-733, (12) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-82	KCT-733	Hyd.; Incl. (1) CS-733, (12) HT-900, (1) KT3-365SA, (1) 55-403B
12	PUSH ROD Push Rod	83-82	RP-3234	DESCRIPTION 7.7700" O.A.L.
12	Push Rod, Bulk	83-82	BRP-3234	Carton of 100; 7.7700" O.A.L.
12	ROCKER PARTS Arm Assy.	83-82	R-1008	DESCRIPTION Incl. arm & pivot
12	Arm Assy., Bulk	83-82	R-1008B	Incl. arm & pivot; Carton of 64
12	Arm	83-82	R-1008W	
12	Pivot	83-82	MR-1842	
6	VALVE Exhaust	83-82	V-2231 Std-15	DESCRIPTION 1.4600" Head Dia., .3414" Stem Dia., 4.8450" O.A.L.
6	Exhaust, Bulk	83-82	V-2231B Std-15	Chrome plated stem; Carton of 25; 1.4600" Head Dia., .3414" Stem Dia., 4.8450" O.A.L.
6	Intake	83-82	V-2232 Std-15	Chrome plated stem; 1.7820" Head Dia., .3419" Stem Dia., 4.8400" O.A.L.
6	Intake, Bulk	83-82	V-2232B Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 4.8400" O.A.L.
12	VALVE GUIDE Guide	83-82	VG-5005	DESCRIPTION Exh. & Int.; .3430" ID, 2.2500" O.A.L.
12	Guide	83-82	VG-5005H	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
12	Guide	83-82	VG-5005T	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
12	Guide, Bulk	83-82	VG-5005B	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
12	Guide, Bulk	83-82	VG-5005TB	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	VALVE SPRING Spring	83-82	VS-661	DESCRIPTION Int.; Incl. damper; 2.0460" Free Height
6	VALVE SEAL Valve Stem Seal	83-82	ST-2110	DESCRIPTION Int.; Positive type
6	Valve Stem Seal	83-82	MV-1819C	Exh.; Umbrella type; Nylon
6	Valve Stem Seal Bulk	83-82	MV-1819	Exh.; Umbrella type; Carton of 50; Nylon
6	VALVE SEAT Exh.	83-82	245-1625-54 Std Only	DESCRIPTION 1.6320" OD, 1.3290" ID, .2800" Depth
6	Int.	83-82	245-1875-50 Std Only	1.8820" OD, 1.6400" ID, .2800" Depth
24	VALVE, MISC Keeper	83-82	VK-205	DESCRIPTION Exh. & Int.; 4 groove
24	Keeper	83-82	VK-205R	Exh. & Int.; 4 groove; Hardened
6	PISTON Cast Piston	83-82	481P Std-.75-1.00-1.50MM	DESCRIPTION Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.584" CD, .9122" Pin Dia., Recessed Head .070" deep x 2.115" dia. - 8.6:1 C.R.
6	Cast Piston - Individual	83-82	W481P Std-.75-1.00-1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.584" CD, .9122" Pin Dia., Recessed Head .070" deep x 2.115" dia. - 8.6:1 C.R.

VALVE TRAIN

VALVE TRAIN

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# Ford Truck (Includes Minivans and SUV's)

**17 3.8L 232 (3797cc) OHV V6, 96.8mm Bore 1983-82**  
 (cont.) L/D Truck VIN Codes "C" 1982-83, "3" 1982-83, "4" 1995-2003

BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	83-82	<b>E-415K</b> Std.-50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
	1	Standard Set	83-82	<b>E-415X</b> Std.-50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
	6	Premium Single Cylinder Set	83-82	<b>WE-415K</b> Std.-50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
	6	Standard Single Cylinder Set	83-82	<b>WE-415X</b> Std.-50-.75-1.00MM	2-2.00MM, 1-4.00MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	83-82	<b>7368M.50MM</b> .50MM	.50MM O/S length flange brg.	
	1	Main Set	83-82	<b>7295MA</b> Std.-026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
	1	Rod Set	83-82	<b>6-3830CPA</b> Std.-25-.50-.75-1.00MM		
	1	Rod Set	83-82	<b>6-3830A.026MM</b> * .026MM	<b>A-Series aluminum bearings</b>	
1	Rod Set	83-82	<b>6-3830CPA25X2</b> 25X2-50X2-75X2	Use in .002" O/S Rod Bore		
6	Rod Pair	83-82	<b>3830CPA</b> Std.-25-.50-.75-1.00MM			
6	Rod Pair	83-82	<b>3830A.026MM</b> .026MM	<b>A-Series aluminum bearings</b>		
1	Cam Set	83-82	<b>1493M</b> Std Only			
1	Bal. Shaft Set	83-82	<b>1807M</b>			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Pump Repair Kit	83-82	<b>224-51162</b>			
1	Inter. Shaft	83-82	<b>224-61162</b>			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	83-82	<b>260-1166</b>	Head bolts not incl.; Premium valve stem seals incl.		
2	Head Bolt Set	83-82	<b>260-2511</b>	Replacement recommended		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	83-82	<b>381-8053</b>			
1	Steel Block Plug Kit	83-82	<b>381-9654</b>			
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION				
	83-82	Head bolts not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-757M</b>	<b>205-257M</b>	
	83-82	Head bolts not incl.; Premium valve stem seals incl.	Re-ring	<b>205-757</b>	<b>205-257</b>	
	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	
YEARS	DESCRIPTION					
83-82	Head bolts not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Camshaft w/o thrust washer	Master Master w/o Pistons	<b>MKP-757A</b> <b>MK-757A</b>	<b>MKP-257A</b> <b>MK-257A</b>		
83-82	Head bolts not incl.; Premium valve stem seals incl.; Camshaft w/o thrust washer	Master w/o Rods & Mains	<b>505-757A</b>	<b>505-257A</b>		

**18 3.9L 239 OHV V8 (Ford), 3.5" Bore 1955-54**  
 L/D Truck VIN Code "U" 1954-55

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Chain	55-54	<b>222-354</b>	Silent type; 1" wide chain; 56 Links	
	1	Crank Sprocket	55-54	<b>223-250</b>	Use w/silent type chain; 21 Teeth	
	1	Cam Sprocket	55-54	<b>223-249</b>	Use w/silent type chain; 42 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	16	Lifter	55-54	<b>AT-872</b> Std Only	Mech.	
	16	Lifter, Bulk	55-54	<b>AT-872B</b> Std Only	Mech.; Carton of 122	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	55-54	<b>RP-3017</b>	8.2580" O.A.L.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
2	Shaft Assy.	55-54	<b>RA-1001H</b>	For 1 bank		
1	Shaft Assy.	55-54	<b>RA-1001</b>	For 1 complete Eng.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	55-54	<b>V-1127</b> Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.		
8	Intake	55-54	<b>V-1128</b> Std Only	1.6470" Head Dia., .3420" Stem Dia., 5.0900" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	55-54	<b>VG-5034</b>	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.		
8	Guide	55-54	<b>VG-5071</b>	Exh.; Cut to fit; .3440" ID, 2.6250" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	55	<b>VS-1575</b>	2.1250" Free Height		

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# Ford Truck (Includes Minivans and SUV's)

**3.9L 239 OHV V8 (Ford), 3.5" Bore 1955-54 18**  
**L/D Truck VIN Code "U" 1954-55 (cont.)**

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring, Bulk	55	VS-1575B	Carton of 250; 2.1250" Free Height
16	Valve Stem Seal	55-54	MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	55-54	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	55-54	MV-1599C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	55-54	MV-1599	Umbrella type; Carton of 100; Rubber
16	Valve Stem Seal Bulk	55-54	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
32	Keeper	55-54	VK-115	1 groove; Square cut key groove
32	Keeper	55-54	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	55-54	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Pin Bushing	55-54	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	55-54	1834V	1.306" max. length
8	Repair Sleeve	55-54	SL-15M Std Only	3/32" wall, Must be cut to correct length
1	Main Set	55-54	884M Std-10-20-30-40-50	
1	Rod Set	55-54	8-2000CPA Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	55-54	2000CPA Std-1-10-20-30-40	
1	Cam Set	55	1160M Std Only	w/Grooved No. 3 cam journal
1	Cam Set	55-54	1223M Std Only	w/Cross-drilled No. 3 cam journal
1	Oil Pump	55	224-41123	
1	Pump Repair Kit	55	224-51297	Rotor type

<b>3.9L 239.4 L-HEAD V8 (Ford/Mercury), 3.1875" Bore 1953-39 19</b>				
<b>L/D Truck</b>				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	53-49	221-2727S	221-2702 not sold separately; Incl. (1) 221-2701, (1) 221-2702
1	Crank Gear	53-49	221-2701	22 Teeth
1	Crank Gear	48-41	221-4704	22 Teeth
1	Cam Gear	48-41	221-4706	Alum.; 44 Teeth
16	Intake	53-51	V-1041 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8170" O.A.L.
16	Intake	50-48	V-967 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8190" O.A.L.
16	Guide	53-48	VG-428	.3435" ID, 2.2000" O.A.L.
16	Spring	53-51	VS-392	2.2000" Free Height
16	Spring	50-39	VS-393	2.4800" Free Height
8	Valve Stem Seal	53-48	MV-1231	O-Ring; Carton of 50; Rubber
16	Int.	53-44	245-1625-15 Std Only	1.6300" OD, 1.3750" ID, .2656" Depth
32	Keeper	53-48	VK-115	1 groove; Square cut key groove
32	Keeper	53-48	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper	53-39	VK-88	Valve guide retainer
32	Keeper, Bulk	53-48	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Cast Piston	53-39	1003P Std-20-30-40-60-80	Cast; 2-3/32", 2-3/16" Ring Groove, 1.519 plus .210 crown" CD, .7500" Pin Dia., Crowned Head w/ring below pin - 7.0:1 C.R.; Not factory duplicate; Repl. O.E. No. 8BA-6108A
8	Cast Piston - Individual	53-39	W1003P Std-20-30-40-60-80	Cast; 2-3/32", 2-3/16" Ring Groove, 1.519 plus .210 crown" CD, .7500" Pin Dia., Crowned Head w/ring below pin - 7.0:1 C.R.; Not factory duplicate; Repl. O.E. No. 8BA-6108A
8	Pin Bushing	53-39	9024XBS	.820" max. housing bore
8	Pin Bushing	53-39	9024VA	Split type bushing; .8125" max. housing bore
8	Pin Bushing	48-39	9024V	Split type bushing; .801" max. housing bore

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

## 19 3.9L 239.4 L-HEAD V8 (Ford/Mercury), 3.1875" Bore 1953-39

(cont.) L/D Truck

BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	53-39	E-247KC30 30-40-60	2-3/32, 2-3/16
	1	Standard Set	53-39	E-247X Std-30-40-60-80	2-3/32, 2-3/16
	8	Standard Single Cylinder Set	53-39	WE-247X Std-30-40	2-3/32, 2-3/16
	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
	8	Dry Sleeve	53-39	SL-140M Std Only	Flanged, finished bore sleeve; NOTE: Use SL-140M w/3.377" OD when block is not milled between valves and bore; Grind valve reliefs if necessary
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	53-48	646M Std-10-20-30	100 HP	
1	Main Set	48-39	533M Std-10-20-30		
1	Rod Set	53-48	8-1505CAA Std-10-20		
8	Rod Pair	53-48	1505CAA Std-10-20-30-40		
8	Rod Pair	53-48	9805CA10 10-20-30		
1	Cam Set	53-39	1005M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	53-49	224-41108	w/drive gear	
1	Oil Pump	48-44	224-41108	Requires fabrication of a screen; w/drive gear	

## 20 3.9L 240 OHV L6, 4" Bore 1976-65

L/D Truck VIN Codes "A" 1966-76, "J" 1965, "1" 1972-76

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Gear Set	74-65	221-2750AS	Alum. cam gear; Replace in sets only; 221-2765 not sold separately; Incl. (1) 221-2750A, (1) 221-2765
	1	Gear Set	74-65	221-2750LS	Laminated silent type cam gear; 221-2765 not sold separately; Incl. (1) 221-2750L, (1) 221-2765
	1	Gear Set	74-65	221-2764S	58 tooth H/D metal cam gear & 29 tooth crank gear incl.; 221-2763 & 221-2764 not sold separately; Incl. (1) 221-2763, (1) 221-2764
	1	Cam Gear	74-65	221-2750A	Alum.; 58 Teeth
	1	Cam Gear	74-65	221-2750L	Laminated silent type cam gear; 58 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	74-65	CS-1230	Hyd.
	12	Lifter	74-65	HT-900 Std Only	Hyd.; Carton of 122
	12	Lifter, Bulk	74-65	HT-900B Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	Prelube	74-65	55-400	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	74-65	KC-1230	Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B	
1	Cam/Lifter/Timing Kit	74-65	KCT-1230C	Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
12	Push Rod	74-65	RP-3183	Std. length; 10.1400" O.A.L.	
12	Push Rod, Bulk	74-65	BRP-3183	Std. length; Carton of 100; 10.1640" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
12	Arm Assy.	74-65	R-854	Incl. arm, ball & 2-nuts; Incl. 3/8" nut; Incl. 5/16" nut	
12	Arm Assy., Bulk	74-65	R-854B	Incl. arm, ball & 2-nuts; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64	
12	Arm	74-65	R-854A		
12	Pivot Ball	74-65	MR-1809		
12	Nut	74-65	MR-1751	Self-locking, 3/8" x 24 threads	
12	Nut	74-65	MR-1823	5/16" x 24	
12	Stud	74-65	MR-1902	.006" O/S, 3/8" x 24 x 2.600"	
12	Stud	74-65	MR-1901	3/8" x 24 x 2.600"	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	74-65	V-1937X Std Only	Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
6	Exhaust	74-65	V-2040 Std Only	Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
6	Exhaust, Bulk	74-65	V-2040B Std Only	Chrome plated stem; Carton of 25; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.	
6	Intake	74-65	V-2041 Std-15	Chrome plated stem; 1.7800" Head Dia., .3420" Stem Dia., 4.8100" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide	74-65	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.	
6	Guide, Bulk	74-65	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
6	Spring	74-65	VS-656	Exh.; Use w/Rotators; 1.8750" Free Height	
12	Spring	74-65	VS-648	Exh. & Int.; w/o Rotators; 1.9900" Free Height	

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**3.9L 240 OHV L6, 4" Bore 1976-65 20**

L/D Truck VIN Codes "A" 1966-76, "J" 1965, "1" 1972-76 (cont.)

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
12	Spring	74-65	VS-661	Exh. & Int.; Incl. damper; 2.0460" Free Height
6	Spring, Bulk	74-65	VS-656B	Exh.; Use w/Rotators; Carton of 300; 1.8750" Free Height
12	Spring, Bulk	74-65	VS-648B	Exh. & Int.; w/o Rotators; Carton of 200; 1.9900" Free Height
<b>VALVE TRAIN</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	74-65	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	74-65	MV-1903	Use w/VG-5038 repair guide; Positive type; Rubber
12	Valve Stem Seal	74-65	MV-1599C	Umbrella type; Rubber
12	Valve Stem Seal Bulk	74-65	MV-1599	Umbrella type; Carton of 100; Rubber
12	Valve Stem Seal Bulk	74-65	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>VALVE TRAIN</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	74-65	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
6	Exh.	74-65	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
6	Exh.	74-65	245-1687-3 Std Only	1.6925" OD, 1.4375" ID, .2480" Depth
6	Int.	74-65	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
<b>VALVE TRAIN</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	74-65	VK-115	1 groove; Square cut key groove
24	Keeper	74-65	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	74-65	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	74-65	259-103C	.015"; ID 1.030"; Carton of 100
12	Spring Insert	74-65	259-103B	.030"; ID 1.030"; Carton of 100
12	Spring Insert	74-65	259-103BRS	.030"; ID 1.030"; Carton of 500
12	Spring Insert	74-65	259-103A	.060"; ID 1.030"; Carton of 100
12	Spring Insert	74-65	259-103ARS	.060"; ID 1.030"; Carton of 500
6	Rotocap Assy.	74-65	RC-128SA	Incl. VS-656 spring
6	Rotocap	74-65	RC-128S	
<b>BLOCK</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	74-70	352AP30 * 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	74-70	352NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	69	352AP30 * 30-40-60	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	69	352NP Std-30-40-60	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	69	1109P Std-20-30-40-60	To late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
6	Cast Piston	68-65	1109P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
6	Cast Piston - Individual	74-70	W352NP Std-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston - Individual	69	W352NP Std-40	From late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston - Individual	69	W1109P * Std-20-30-40-60	To late 1969; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
6	Cast Piston - Individual	68-65	W1109P * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
<b>BLOCK</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	74-65	E-229K Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	74-65	E-464KC Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	74-65	E-229X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	74-65	WE-229K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	74-65	WE-229X Std-20-30-40-60	2-5/64, 1-3/16
<b>BLOCK</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Repair Sleeve	74-65	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
6	Repair Sleeve	74-65	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
<b>BLOCK</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74-67	4916M Std-1-10-20-30-40	3.602" max. brg. flange OD
1	Main Set	74-67	7153M10 10-20-30	3.602" max. brg. flange OD; .020" O/S length flange brg.
1	Rod Set	74-65	6-3150CPA10X2 10X2-20X2	Use in .002" O/S Rod Bore

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**20 3.9L 240 OHV L6, 4" Bore 1976-65**  
 (cont.) L/D Truck VIN Codes "A" 1966-76, "J" 1965, "1" 1972-76

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
	(cont.)							
	1	Rod Set	74-65	6-3150CPA	Std-1-10-20-30-40-50	6-3150CAA 60 avail. as unplated & resizeable		
	1	Rod Set	74-65	6-3150CAA60	60	Unplated & resizeable		
	6	Rod Pair	74-65	3150CPA	Std-1-2-10-20-30-40-50			
1	Cam Set	74-65	1450M	Std Only				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION				
1	Oil Pump	74-65	224-41124					
1	Oil Pump	74-65	224-41124V		High Volume, check pan for clearance			
1	Inter. Shaft	74-65	224-61124					
1	Screen Assy.	74-68	224-14124		4WD; E100, E150, E200, E250, E300, F100, F200, F250			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION				
1	Kit Gasket Set	76-68	260-1006		Premium valve stem seals incl.			
1	Kit Gasket Set	67-65	260-1006		Valve cover gskt. not incl.; Premium valve stem seals incl.			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit	76-65	381-8014					
1	Steel Block Plug Kit	76-65	381-4013					
KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.		
	YEARS	DESCRIPTION						
	74-68	Premium valve stem seals incl.	Re-ring		205-612	205-112		
	74-68	Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		205-612M	205-112M		
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.	Re-ring		205-612	205-112		
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		205-612M	205-112M		
	66-65	Valve cover gskt. not incl.; Premium valve stem seals incl.	Re-ring		205-612	205-112		
	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.		
	YEARS	DESCRIPTION						
	74-73	Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains		505-612C	505-112C		
	74-73	Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master Master w/o Pistons		MKP-612C MK-612C	MKP-112C MK-112C		
	74-73	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons		MK-612E	MK-112E		
	72-70	Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains		505-612C	505-112C		
	72-70	Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master		MKP-612C	MKP-112C		
	72-68	Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master w/o Pistons		MK-612C	MK-112C		
	72-68	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons		MK-612E	MK-112E		
	69	From late 1969; Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains		505-612C	505-112C		
	69	From late 1969; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master		MKP-612C	MKP-112C		
69	To late 1969; Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains		505-612D	505-112D			
69	To late 1969; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master		MKP-612D	MKP-112D			
68	Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains		505-612D	505-112D			
68	Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master		MKP-612D	MKP-112D			

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# Ford Truck (Includes Minivans and SUV's)

3.9L 240 OHV L6, 4" Bore 1976-65 <b>20</b>					
L/D Truck VIN Codes "A" 1966-76, "J" 1965, "1" 1972-76 (cont.)					
K I T S	OVERHAUL KIT (cont.)			PREMIUM	ECONOMY
	YEARS	DESCRIPTION		KIT NO.	KIT NO.
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612C	MK-112C
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master	MKP-612D	MKP-112D
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612E	MK-112E
67-65	Valve cover gskt. not incl.; Premium valve stem seals incl.; Incl. laminated silent type cam gear	Master w/o Rods & Mains	505-612D	505-112D	

4.0L 242 (3966cc) OHV Diesel L4 (Dorset), 104.8mm Bore (Ford Europe Eng.) 1970-67 <b>21</b>				
L/D Truck VIN Codes "D" 1967-70 (Dorset Eng.), "J" 1968-69 (Dorset Eng.)				

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
2	Premium Set	70-67	9362KX Std Only	3-3/32, 1-3/16 (2 cyl. set)
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	70-67	2248BF Std Only	Position 3

4.0L 244 (4015cc) OHV V6 (12 Valve), 100.4mm Bore 1990 <b>22</b>				
L/D Truck VIN Code "X" 1990-2001				

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	KT3-64S	Incl. (1) 222-3SR64X, (1) 223-650, (1) 223-651
1	Timing Chain	90	222-3SR64X	64 Links
1	Timing Chain Tensioner	90	222-157CT	
1	Crank Sprocket	90	223-651	19 Teeth
1	Cam Sprocket	90	223-650	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-1511	w/A/T
1	Camshaft	90	CS-1510	w/M/T
12	Lifter	90	HT-2244 Std Only	Hyd. rlr.
12	Lifter, Bulk	90	HT-2244B Std Only	Hyd. rlr.; Carton of 128
1	Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	KC-1511	w/A/T; Hyd. rlr.; Incl. (1) CS-1511, (12) HT-2244, (1) 55-403B
1	Cam/Lifter Kit	90	KC-1510	w/M/T; Hyd. rlr.; Incl. (1) CS-1510, (12) HT-2244, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	KCT-1511	w/A/T; Hyd. rlr.; Incl. (1) CS-1511, (12) HT-2244, (1) KT3-64S, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	KCT-1510	w/M/T; Hyd. rlr.; Incl. (1) CS-1510, (12) HT-2244, (1) KT3-64S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90	RP-333260	5.4200" O.A.L.
12	Push Rod	90	RP-333230	5.4500" O.A.L.
12	Push Rod	90	RP-3332	5.4800" O.A.L.
12	Push Rod, Bulk	90	BRP-333260	Carton of 100; 5.4200" O.A.L.
12	Push Rod, Bulk	90	BRP-333230	Carton of 100; 5.4500" O.A.L.
12	Push Rod, Bulk	90	BRP-3332	Carton of 100; 5.4800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	90	R-1092	
12	Arm, Bulk	90	R-1092B	Carton of 32
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90	V-3918 Std-15	Chrome plated stem; 1.3600" Head Dia., .3152" Stem Dia., 4.0980" O.A.L.
6	Exhaust, Bulk	90	V-3918B Std-15	Chrome plated stem; Carton of 25; 1.3600" Head Dia., .3152" Stem Dia., 4.0980" O.A.L.
6	Intake	90	V-2606 Std-15	Chrome plated stem; Hardened seat; 1.7100" Head Dia., .3163" Stem Dia., 4.0920" O.A.L.
6	Intake, Bulk	90	V-2606B Std-15	1 groove; Chrome plated stem; Hardened seat; Carton of 25; 1.7100" Head Dia., .3163" Stem Dia., 4.0920" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90	VG-5016	.3175" ID, 2.0000" O.A.L.
12	Guide	90	VG-5016T	Threaded; .3175" ID, 2.0000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90	VS-1630	Exh. & Int.; 2.0950" Free Height

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# Ford Truck (Includes Minivans and SUV's)

**22 4.0L 244 (4015cc) OHV V6 (12 Valve), 100.4mm Bore 1990**

(cont.) L/D Truck VIN Code "X" 1990-2001

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
12	Spring, Bulk	90	VS-1630B	Exh. & Int.; Carton of 250; 2.0950" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90	ST-2109	Exh. & Int.; Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
6	Int.	90	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	90	VK-204	Exh.; 3 groove; w/.3125 Stem Dia.
12	Keeper	90	VK-144	Int.; 1 groove; Square cut key groove
12	Keeper	90	VK-144R	Int.; 1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	90	VK-144B	Int.; 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	H570P Std-.50-.75-1.00MM	Hypereutectic; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.441" CD, .9447" Pin Dia., Recessed Head .315" deep x 2.400" dia.
6	Cast Piston - Individual	90	WH570P Std-.50-.75-1.00MM	Hypereutectic; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.441" CD, .9447" Pin Dia., Recessed Head .315" deep x 2.400" dia.
1	Cast Piston Set w/Prem. Rings	90	6KH570P.50MM .50-.75-1.00MM	Cast; 1-1.60mm, 1-1.75mm, 1-3.50mm Ring Groove, 1.441" CD, .9447" Pin Dia., Recessed Head .315" deep x 2.400" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-613K Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
1	Standard Set	90	E-613X Std-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
6	Premium Single Cylinder Set	90	WE-613K Std-.50-.75-1.00MM	1-1.60MM, 1-1.75MM, 1-3.50MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7246MA10 10-20-30	A-Series aluminum bearings; .020" O/S length flange brg.
1	Main Set	90	7245MA Std-10-20-30	A-Series aluminum bearings; Full flange thrust brg.
1	Rod Set	90	6-3055CP Std-10-20-30	
1	Rod Set	90	6-3055CP10X2 10X2-20X2	Use in .002" O/S Rod Bore
6	Rod Pair	90	3055CP Std-10-20-30	
1	Cam Set	90	1844M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-43431	
1	Inter. Shaft	90	224-14275	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1652	Head bolts not incl.; Replacement recommended; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90	260-2509	Replacement recommended
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION			
90	Head bolts not incl.; Replacement recommended; Incl. A-Series aluminum bearings; Full flange thrust brg. incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	PREMIUM KIT NO. 205-6318M	ECONOMY KIT NO. 205-1318M
90	Head bolts not incl.; Replacement recommended; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6318	205-1318
<b>OVERHAUL KIT</b>				
YEARS	DESCRIPTION			
90	Head bolts not incl.; Replacement recommended; Incl. A-Series aluminum bearings; Full flange thrust brg. incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block	PREMIUM KIT NO. BK-6139	ECONOMY KIT NO. ----
90	w/A/T; Head bolts not incl.; Replacement recommended; Freeze plugs not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Full flange thrust brg. incl.	Master Master w/o Pistons	MKP-6263A MK-6263A	MKP-1263A MK-1263A
90	w/A/T; Head bolts not incl.; Replacement recommended; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-6263A	505-1263A
90	w/M/T; Head bolts not incl.; Replacement recommended; Freeze plugs not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Full flange thrust brg. incl.	Master Master w/o Pistons	MKP-6264A MK-6264A	MKP-1264A MK-1264A

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**4.0L 244 (4015cc) OHV V6 (12 Valve), 100.4mm Bore 1990 22**  
**L/D Truck VIN Code "X" 1990-2001 (cont.)**

<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		
90	w/M/T; Head bolts not incl.; Replacement recommended; Freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	505-6264A	505-1264A

**4.1L 250 OHV L6, 3.68" Bore 1974-69 23**  
**L/D Truck VIN Code "L" 1969-74**

<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>VALVE TRAIN</b>
	1	Timing Chain	72-69	<b>222-354</b>	Silent type; 1" wide chain; 56 Links	
	1	Crank Sprocket	72-69	<b>223-415</b>	Use w/1" wide chain; 21 Teeth	
	1	Cam Sprocket	72-69	<b>223-414</b>	42 Teeth	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	2	Rocker Shaft	74-69	<b>RS-619</b>		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exhaust	74-69	<b>V-1983</b> Std-15	Chrome plated stem; 1.3900" Head Dia., .3101" Stem Dia., 4.2600" O.A.L.	
	6	Intake	72-69	<b>V-1717</b> Std Only	w/o Chrome plated stem; 1.6555" Head Dia., .3102" Stem Dia., 4.2638" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Guide	74-69	<b>VG-5009</b>	Exh. & Int.; .3120" ID, 1.8800" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Spring	74-69	<b>VS-624</b>	1.8280" Free Height	
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Valve Stem Seal	74-69	<b>ST-2005</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
	12	Valve Stem Seal	74-69	<b>MV-1796A</b>	Umbrella type; Fits Std. to .015" O/S valve stem	
	12	Valve Stem Seal Bulk	74-69	<b>ST-2005BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	12	Valve Stem Seal Bulk	74-69	<b>MV-1796</b>	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber	
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exh.	74-69	<b>245-1437-2N</b> Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth	
	6	Exh.	74-69	<b>245-1437-2</b> Std Only	1.4425" OD, 1.2190" ID, .2160" Depth	
	6	Int.	74-69	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	
	6	Int.	74-69	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	24	Keeper	74-69	<b>VK-144</b>	1 groove; Square cut key groove	
	24	Keeper	74-69	<b>VK-144R</b>	1 groove; Square cut key groove; Hardened	
	24	Keeper, Bulk	74-69	<b>VK-144B</b>	1 groove; Square cut key groove; Carton of 1000	
	12	Spring Insert	74-69	<b>259-102C</b>	.015"; Carton of 100	
	12	Spring Insert	74-69	<b>259-102B</b>	.030"; Carton of 100	
	12	Spring Insert	74-69	<b>259-102A</b>	.060"; Carton of 100	
	12	Spring Insert	74-69	<b>259-102ARS</b>	.060"; Carton of 500	
	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>BLOCK</b>
	6	Cast Piston	74-69	<b>275NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.	
	6	Cast Piston - Individual	74-69	<b>W275NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.500" CD, .9125" Pin Dia., Recessed Head .105" deep x 2.320" dia. - 9.2:1 C.R.	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	74-69	<b>E-219K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	74-69	<b>E-219X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Premium Single Cylinder Set	74-69	<b>WE-219K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Standard Single Cylinder Set	74-69	<b>WE-219X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	74-69	<b>4916M</b> Std-1-10-20-30-40	3.602" max. brg. flange OD	
	1	Main Set	74-69	<b>7153M10</b> 10-20-30	3.602" max. brg. flange OD; .020" O/S length flange brg.	
	1	Rod Set	74-69	<b>6-2380CP</b> Std-1-10-20-30-40		
	6	Rod Pair	74-69	<b>2380CP</b> Std-1-10-20-30-40		
	1	Cam Set	74-69	<b>1439M</b> Std Only		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	74-69	<b>260-1003</b>	Premium valve stem seals incl.	
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	73-69	<b>381-8013</b>		
	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		Re-ring	205-609	205-109
	74-69	Premium valve stem seals incl.				

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# Ford Truck (Includes Minivans and SUV's)

**23** 4.1L 250 OHV L6, 3.68" Bore 1974-69  
(cont.) L/D Truck VIN Code "L" 1969-74

**RE-RING KIT** (cont.)  
**YEARS DESCRIPTION**

74-69 Premium valve stem seals incl.; w/3.602" max. brg. flange OD

Re-ring w/Mains

**PREMIUM  
KIT NO.**  
205-609M

**ECONOMY  
KIT NO.**  
205-109M

**24** 4.2L 255 OHV V8, 3.68" Bore 1982-81  
L/D Truck VIN Code "D" 1981-82

**VALVE TRAIN**

**VALVE TRAIN**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	82-81	KT3-358SA	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	Timing Set w/Gaskets	82-81	CTS-2000	Incl. silent type chain
1	Timing Chain	82-81	222-358	Silent type; 58 Links
1	Crank Sprocket	82-81	223-431	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket	82-81	223-430	Use w/Silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-81	CS-668	Hyd.
16	Lifter	82-81	HT-900 Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	82-81	HT-900B Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	82-81	55-400	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-81	KC-668	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-81	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-81	RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	82-81	RP-3167	6.8760" O.A.L.
16	Push Rod, Bulk	82-81	BRP-3167	Carton of 100; 6.8760" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	82-81	R-879	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy., Bulk	82-81	R-879B	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Bolt	82-81	MR-1847	5/16" X 18 UNC w/Washer
16	Pivot	82-81	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	82-81	V-4551X Std Only	Chrome plated stem; Stellite face; 1.4520" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	82-81	V-1961 Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	82-81	V-1961B Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	82-81	VG-5005	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
16	Guide	82-81	VG-5005H	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	82-81	VG-5005T	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-81	VG-5005B	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-81	VG-5005TB	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	82-81	VS-733	Exh.; 1.9230" Free Height
8	Spring	82-81	VS-718	Int.; 2.0280" Free Height
8	Spring, Bulk	82-81	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	82-81	VS-718B	Int.; Carton of 250; 2.0280" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	82-81	MV-1819C	Exh.; Umbrella type; Nylon
16	Valve Stem Seal	82-81	MV-1796C	Exh. & Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
8	Valve Stem Seal	82-81	MV-1906	Int.; Umbrella type; Nylon
8	Valve Stem Seal Bulk	82-81	MV-1819	Exh.; Umbrella type; Carton of 50; Nylon
16	Valve Stem Seal Bulk	82-81	MV-1796	Exh. & Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	82-81	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	82-81	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	82-81	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	82-81	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	82-81	VK-115	1 groove; Square cut key groove

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# Ford Truck (Includes Minivans and SUV's)

**4.2L 255 OHV V8, 3.68" Bore 1982-81 24**  
L/D Truck VIN Code "D" 1981-82 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
32	Keeper	82-81	VK-115R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	82-81	VK-115B	1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	82-81	259-102C	.015"; Carton of 100	
16	Spring Insert	82-81	259-102B	.030"; Carton of 100	
16	Spring Insert	82-81	259-102A	.060"; Carton of 100	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Standard Set	82-81	E-413X Std Only	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	82-81	WE-413X Std Only	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	82-81	7151M10 10-20-30	.020" O/S length flange brg.	
1	Main Set	82-81	4125MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	
1	Main Set	82-81	4125M Std-1-10-20-30-40	Incl. contoured design thrust brg.	
1	Rod Set	82-81	8-2600A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	82-81	8-2600A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore	
1	Rod Set	82-81	8-2600CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore	
1	Rod Set	82-81	8-2600CP Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable	
1	Rod Set	82-81	8-2600CA60 60	Unplated & resizeable	
8	Rod Pair	82-81	2600CP Std-1-2-10-20-30-40		
8	Rod Pair	82-81	2600A Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Cam Set	82-81	1204M Std-10	Babbitt material; Full round design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	82-81	224-41118		
1	Oil Pump	82-81	224-43370	High Pressure	
1	Oil Pump	82-81	224-41128	High Volume, check pan for clearance; Incl. inter. shaft	
1	Inter. Shaft	82-81	224-61118		
1	Screen Assy.	82-81	224-13118		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	82	260-1097	Premium valve stem seals incl.	
1	Kit Gasket Set	81	260-1097	From 4/14/81; Int. manifold gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	81	260-1097	To 4/13/81; Int. manifold gskt. not incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	82-81	381-8015		
1	Steel Block Plug Kit	82-81	381-4010		
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	82	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	----	205-185
	81	From 4/14/81; Int. manifold gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	----	205-185
	81	To 4/13/81; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	----	205-185
	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
82	Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
81	From 4/14/81; Int. manifold gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
81	To 4/13/81; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	----	MK-185A	
				<b>4.2L 255.4 L-HEAD V8 (Mercury), 3.1875" Bore 1954-48 25</b>	
				L/D Truck	
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Gear Set	54-48	221-2727S	221-2702 not sold separately; Incl. (1) 221-2701, (1) 221-2702	
1	Crank Gear	54-48	221-2701	22 Teeth	
1	Cam Gear	54-48	221-2702	Alum.; 44 Teeth	

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# Ford Truck (Includes Minivans and SUV's)

## 25 4.2L 255.4 L-HEAD V8 (Mercury), 3.1875" Bore 1954-48 (cont.) L/D Truck

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
16	Intake	54-52	V-1041 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8170" O.A.L.
16	Intake	51-48	V-967 Std Only	Exh. & Int.; 1.5100" Head Dia., .3410" Stem Dia., 4.8190" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	54-48	VG-428	Use w/MV-1231 seal; .3435" ID, 2.2000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	54-52	VS-392	2.2000" Free Height
16	Spring	51-48	VS-393	2.4800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	54-48	MV-1231	O-Ring; Carton of 50; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	54-48	245-1640-1 Std Only	1.6395" OD, 1.3750" ID, .2480" Depth
8	Int.	54-48	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	54-48	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	54-48	VK-88	Valve guide retainer
32	Keeper	54-48	VK-115	1 groove; Square cut key groove
32	Keeper	54-48	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	54-48	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	53-49	1014P30 30-40-60	Cast; 2-3/32", 2-3/16" Ring Groove, 1.427 plus .21 crown" CD, .7500" Pin Dia., Crowned Head .210" high w/offset pin and ring below pin; Not factory duplicate
8	Cast Piston - Individual	53-49	W1014P30 30-40-60	Cast; 2-3/32", 2-3/16" Ring Groove, 1.427 plus .21 crown" CD, .7500" Pin Dia., Crowned Head .210" high w/offset pin and ring below pin; Not factory duplicate
8	Pin Bushing	54-48	9024XBS	.820" max. housing bore
8	Pin Bushing	54-48	9024VA	Split type bushing; .8125" max. housing bore
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	53-49	E-247KC30 30-40-60	2-3/32, 2-3/16
1	Standard Set	53-49	E-247X Std-30-40-60-80	2-3/32, 2-3/16
8	Standard Single Cylinder Set	53-49	WE-247X Std-30-40	2-3/32, 2-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Dry Sleeve	54-48	SL-140M Std Only	Flanged, finished bore sleeve; NOTE: Use SL-140M w/3.377" OD when block is not milled between valves and bore; Grind valve reliefs if necessary
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	54-48	646M Std-10-20-30	
1	Rod Set	54-48	8-1505CAA Std-10-20	
8	Rod Pair	54-48	1505CAA Std-10-20-30-40	
1	Cam Set	54-48	1005M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	54-48	224-41108	w/drive gear

## 26 4.2L 256 OHV V8 (Mercury), 3.625" Bore 1955-54 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	55-54	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	55-54	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	55-54	223-249	Use w/silent type chain; 42 Teeth
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	55-54	RP-3017	8.2580" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	54	RA-1001H	For 1 bank
1	Shaft Assy.	54	RA-1001	For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	55-54	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	55-54	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	55-54	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	55-54	VG-5071	Exh.; Cut to fit; .3440" ID, 2.6250" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	55-54	VS-1575	2.1250" Free Height
16	Spring, Bulk	55-54	VS-1575B	Carton of 250; 2.1250" Free Height

(continued on next page)

## Ford Truck (Includes Minivans and SUV's)

**4.2L 256 OHV V8 (Mercury), 3.625" Bore 1955-54 26**  
L/D Truck (cont.)

VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	16	Valve Stem Seal	55-54	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
	8	Valve Stem Seal	55-54	MV-1599C	Int.; Umbrella type; Rubber
	16	Valve Stem Seal Bulk	55-54	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	8	Valve Stem Seal Bulk	55-54	MV-1599	Int.; Umbrella type; Carton of 100; Rubber
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	8	Exh.	55-54	245-1630-1 Std Only	1.6300" OD, 1.3350" ID, .3105" Depth
	8	Int.	55-54	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	55-54	VK-115	1 groove; Square cut key groove
	32	Keeper	55-54	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	55-54	VK-115B	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	55-54	259-102C	.015"; Carton of 100
	16	Spring Insert	55-54	259-102B	.030"; Carton of 100
	16	Spring Insert	55-54	259-102A	.060"; Carton of 100
	16	Spring Insert	55-54	259-102ARS	.060"; Carton of 500
VALVE TRAIN	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set	55-54	5155X Std Only	2-3/32, 1-3/16
VALVE TRAIN	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	55	224-41123	
	1	Pump Repair Kit	55	224-51297	Rotor type

**4.3L 262 OHV L6, 3.7188" Bore 1964-61 27**  
L/D Truck VIN Code "B" 1961-64

VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	12	Push Rod	64-61	RP-3021	9.8200" O.A.L.
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	6	Guide	64-61	VG-5007	Exh.; .3725" ID, 2.3800" O.A.L.
	6	Guide	64-61	VG-5007T	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
	6	Guide	64-61	VG-5033	Int.; .3735" ID, 2.6200" O.A.L.
	6	Guide, Bulk	64-61	VG-5007B	Exh.; Carton of 50; .3725" ID, 2.3800" O.A.L.
	6	Guide, Bulk	64-61	VG-5007TB	Exh.; Threaded; .3725" ID, 2.3800" O.A.L.
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	12	Spring	64-61	VS-1575	2.1250" Free Height
	12	Spring, Bulk	64-61	VS-1575B	Carton of 250; 2.1250" Free Height
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	12	Valve Stem Seal	64-61	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
	12	Valve Stem Seal	64-61	ST-2004	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal	64-61	MV-1599C	Umbrella type; Rubber
	12	Valve Stem Seal Bulk	64-61	MV-1599	Umbrella type; Carton of 100; Rubber
	12	Valve Stem Seal Bulk	64-61	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
	12	Valve Stem Seal Bulk	64-61	ST-2004BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	6	Exh.	64-61	245-1630-1 Std Only	1.6300" OD, 1.3350" ID, .3105" Depth
	6	Int.	64-61	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	24	Keeper	64-61	VK-138	1 groove; Square cut key groove
	24	Keeper	64-61	VK-138R	1 groove; Square cut key groove; Hardened
	24	Keeper, Bulk	64-61	VK-138B	1 groove; Square cut key groove; Carton of 1000
	12	Spring Insert	64-61	259-102C	.015"; Carton of 100
	12	Spring Insert	64-61	259-102B	.030"; Carton of 100
	12	Spring Insert	64-61	259-102A	.060"; Carton of 100
	12	Spring Insert	64-61	259-102ARS	.060"; Carton of 500
VALVE TRAIN	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Pin Bushing	64	2469V	1.276" length
VALVE TRAIN	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	64	4056M Std-10-20-30	
	6	Rod Pair	64	2465CPB Std-10-20	3 oil holes
	1	Cam Set	64	1133M Std Only	w/o cross-drilled cam journals

# Ford Truck (Includes Minivans and SUV's)

**28** 4.4L 272 OHV V8, 3.625" Bore 1957-56  
L/D Truck VIN Codes "B" 1957, "M" 1955-58, "U" 1955-58

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	57-56	222-354	Silent type; 1" wide chain; 56 Links
1	Crank Sprocket	57-56	223-250	Use w/silent type chain; 21 Teeth
1	Cam Sprocket	57-56	223-249	Use w/silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	57-56	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal
1	Prelube	57-56	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	57-56	RP-3022	8.3400" O.A.L.
16	Push Rod, Bulk	57-56	BRP-3022	Carton of 100; 8.3400" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Shaft Assy.	57-56	RA-1001H	For 1 bank
1	Shaft Assy.	57-56	RA-1001	For 1 complete Eng.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	57-56	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.
8	Intake	57	V-1285 Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
8	Intake	56	V-1115 Std Only	1.7800" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	57-56	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	57-56	VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
8	Guide	57-56	VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	57-56	VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	57-56	VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	57-56	VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	57-56	VS-1575	2.1250" Free Height
16	Spring, Bulk	57-56	VS-1575B	Carton of 250; 2.1250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	57-56	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	57-56	MV-1599C	Int.; Umbrella type; Rubber
16	Valve Stem Seal Bulk	57-56	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	57-56	MV-1599	Int.; Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	57-56	VK-115	Exh. & Int.; 1 groove; Square cut key groove
32	Keeper	57-56	VK-115R	Exh. & Int.; 1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	57-56	VK-115B	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	57-56	259-102C	.015"; Carton of 100
16	Spring Insert	57-56	259-102B	.030"; Carton of 100
16	Spring Insert	57-56	259-102A	.060"; Carton of 100
16	Spring Insert	57-56	259-102ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	57-56	1021P30 30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 7.8:1 C.R.
8	Cast Piston - Individual	57-56	W1021P30 30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 7.8:1 C.R.
8	Pin Bushing	57-56	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	57-56	1834V	1.306" max. length
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	57-56	5155X Std Only	2-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	57-56	884M Std-10-20-30-40-50	
1	Rod Set	57-56	8-2000CPA Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
8	Rod Pair	57-56	2000CPA Std-1-10-20-30-40	
1	Cam Set	57-56	1223M Std Only	w/Cross-drilled No. 3 cam journal
1	Cam Set	57-56	1160M Std Only	w/Grooved No. 3 cam journal
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	57-56	224-41123	
1	Pump Repair Kit	57-56	224-51297	Rotor type
1	Inter. Shaft	57-56	224-61123	

VALVE TRAIN

VALVE TRAIN

BLOCK

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# Ford Truck (Includes Minivans and SUV's)

4.7L 289 OHV V8, 4" Bore 1968-65 **29**

L/D Truck VIN Codes "A" 1965-68, "C" 1965-68, "N" 1966-68

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	68-65	<b>CS-560</b>	Hyd.
16	Lifter	68-65	<b>HT-900</b> Std Only	Hyd.
16	Lifter	68-65	<b>HT-900R</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	68-65	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	68-65	<b>HT-900RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	68-65	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	68-65	<b>KC-560</b>	Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	68-65	<b>RP-3165</b>	6.8010" O.A.L.
16	Push Rod, Bulk	68-65	<b>BRP-3165</b>	Carton of 100; 6.8010" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	68-65	<b>R-847</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy., Bulk	68-65	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Pivot Ball	68-65	<b>MR-1809</b>	
16	Nut	68-65	<b>MR-1823</b>	5/16" x 24
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68-65	<b>V-1784</b> Std-15	1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	68-65	<b>V-1784B15</b> 15	Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Intake	68-65	<b>V-1785</b> Std-15	1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake, Bulk	68-65	<b>V-1785B</b> Std-15	Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	68-65	<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
16	Guide	68-65	<b>VG-5005H</b>	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	68-65	<b>VG-5005T</b>	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	68-65	<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	68-65	<b>VG-5005TB</b>	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	68-65	<b>VS-672</b>	1.9700" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	68-65	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	68-65	<b>MV-1796C</b>	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	68-65	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	68-65	<b>MV-1796</b>	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	68-65	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	68-65	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	68-65	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	68-65	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	68-65	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	68-65	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	68-65	<b>259-102C</b>	.015"; Carton of 100
16	Spring Insert	68-65	<b>259-102B</b>	.030"; Carton of 100
16	Spring Insert	68-65	<b>259-102A</b>	.060"; Carton of 100
16	Spring Insert	68-65	<b>259-102ARS</b>	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	68-66	<b>273AP</b> Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston	68-66	<b>272AP</b> Std-20-30-40-60-80	VIN Codes "C" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston	65	<b>273AP</b> Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston	65	<b>272AP</b> Std-20-30-40-60-80	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.

VALVE TRAIN

VALVE TRAIN

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# Ford Truck (Includes Minivans and SUV's)

**29 4.7L 289 OHV V8, 4" Bore 1968-65**  
 (cont.) L/D Truck VIN Codes "A" 1965-68, "C" 1965-68, "N" 1966-68

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	68-66	<b>W273AP</b> Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	68-66	<b>W272AP</b> Std-20-30-40-60-80	VIN Codes "C" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	65	<b>W273AP</b> Std-20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	65	<b>W272AP</b> Std-20-30-40-60-80	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	68-66	<b>8K273AP20</b> 20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	68-66	<b>8K272AP20</b> 20-30-40-60	VIN Codes "C" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	65	<b>8K273AP20</b> 20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	65	<b>8K272AP20</b> 20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	68-66	<b>8X273AP20</b> 20-30-40-60	VIN Code "A"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Econ. Rings	68-66	<b>8X272AP20</b> 20-30-40-60	VIN Codes "C" & "N"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	65	<b>8X272AP20</b> 20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	65	<b>8X273AP20</b> 20-30-40-60	VIN Codes "A" & "D"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Powerforged	68-65	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68-65	<b>L-2305F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-65	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-65	<b>WL-2305F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	68-65	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	68-65	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	68-65	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	68-65	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	68-65	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	68-65	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	68-65	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-65	<b>7151M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	68-65	<b>4125MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set	68-65	<b>4125M</b> Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	68-65	<b>8-2600A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set	68-65	<b>8-2600A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	68-65	<b>8-2600CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set	68-65	<b>8-2600CP</b> Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable

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# Ford Truck (Includes Minivans and SUV's)

**4.7L 289 OHV V8, 4" Bore 1968-65 29**

L/D Truck VIN Codes "A" 1965-68, "C" 1965-68, "N" 1966-68 (cont.)

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION		
	1	Rod Set	68-65	8-2600CA60 60	Unplated & resizeable		
	8	Rod Pair	68-65	2600CP Std-1-2-10-20-30-40			
	8	Rod Pair	68-65	2600A Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
	1	Cam Set	68-65	1204M Std-10	Babbitt material; Full round design		
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	68-65	224-41118			
	1	Oil Pump	68-65	224-43370	High Pressure		
	1	Oil Pump	68-65	224-41128	High Volume, check pan for clearance; Incl. inter. shaft		
	1	Inter. Shaft	68-65	224-61118			
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	68-65	260-1125	Premium set; Premium valve stem seals incl.		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	68-65	381-8015			
	1	Steel Block Plug Kit	68-65	381-4010			
KITS	YEARS	RE-RING KIT DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
	68-65	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Re-ring			205-653	205-153
	68-65	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Re-ring w/Mains			205-653M	205-153M

**4.8L 292 OHV V8, 3.75" Bore 1964-58 30**

L/D Truck VIN Codes "C" 1957-65, "D" 1957-65

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
	1	Timing Chain	64-58	222-354	Silent type; 1" wide chain; 56 Links		
	1	Crank Sprocket	64-58	223-250	Use w/silent type chain; 21 Teeth		
	1	Cam Sprocket	64-58	223-249	Use w/silent type chain; 42 Teeth		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
	1	Camshaft	64-58	CS-210	14 teeth on dist. drive gear; Shaft has oil groove in No. 3 journal		
	1	Prelube	64-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
	16	Push Rod	64-58	RP-3022	8.3400" O.A.L.		
	16	Push Rod, Bulk	64-58	BRP-3022	Carton of 100; 8.3400" O.A.L.		
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	2	Shaft Assy.	64-58	RA-1001H	For 1 bank		
	1	Shaft Assy.	64-58	RA-1001	For 1 complete Eng.		
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
	8	Exhaust	64-58	V-1127 Std Only	Rototype; Free valve; 1.5100" Head Dia., .3418" Stem Dia., 5.0900" O.A.L.		
	8	Intake	64-60	V-1285 Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.		
	8	Intake	59-58	V-1285 Std Only	1.9250" Head Dia., .3421" Stem Dia., 5.1100" O.A.L.		
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	8	Guide	64-59	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.		
	8	Guide	64-58	VG-5006	Int.; .3440" ID, 2.3750" O.A.L.		
	8	Guide	64-58	VG-5006T	Int.; Threaded; .3425" ID, 2.3800" O.A.L.		
	8	Guide, Bulk	64-58	VG-5006B	Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.		
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	16	Spring	64-58	VS-1575	2.1250" Free Height		
	16	Spring, Bulk	64-58	VS-1575B	Carton of 250; 2.1250" Free Height		
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	16	Valve Stem Seal	64-58	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE		
	16	Valve Stem Seal	64-58	MV-1599C	Umbrella type; Rubber		
	16	Valve Stem Seal Bulk	64-58	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
	16	Valve Stem Seal Bulk	64-58	MV-1599	Umbrella type; Carton of 100; Rubber		
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	32	Keeper	64-58	VK-115	1 groove; Square cut key groove		
	32	Keeper	64-58	VK-115R	1 groove; Square cut key groove; Hardened		
	32	Keeper, Bulk	64-58	VK-115B	1 groove; Square cut key groove; Carton of 1000		
	16	Spring Insert	64-58	259-102C	.015"; Carton of 100		
	16	Spring Insert	64-58	259-102B	.030"; Carton of 100		
	16	Spring Insert	64-58	259-102A	.060"; Carton of 100		

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# Ford Truck (Includes Minivans and SUV's)

**30 4.8L 292 OHV V8, 3.75" Bore 1964-58**  
 (cont.) L/D Truck VIN Codes "C" 1957-65, "D" 1957-65

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION					
16	Spring Insert	64-58	259-102ARS	.060"; Carton of 500					
<b>B</b>	<b>QTY PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					8	Cast Piston	64-58	1022P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 8.6:1 C.R.
					8	Cast Piston - Individual	64-58	W1022P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9122" Pin Dia., Flat Head - 8.6:1 C.R.
					8	Pin Bushing	64-61	2469V	1.276" length
					8	Pin Bushing	64-58	1834V20	1.306" length; .020" extra bore stock
8	Pin Bushing	64-58	1834V	1.306" max. length					
<b>B</b>	<b>QTY RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					1	Premium Set	64-58	E-240K Std-20-30-40-60	2-5/64, 1-3/16
					1	Standard Set	64-58	E-240X Std-30-40-60	2-5/64, 1-3/16
					8	Premium Single Cylinder Set	64-58	WE-240K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	64-58	WE-240X Std-30-40-60	2-5/64, 1-3/16					
<b>B</b>	<b>QTY ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					1	Main Set	64-58	884M Std-10-20-30-40-50	
					1	Rod Set	64-58	8-2000CPA Std-10-20-30-40	8-2000CAA 60 avail. as unplated & resizeable
					8	Rod Pair	64-58	2000CPA Std-1-10-20-30-40	
					1	Cam Set	64-58	1223M Std Only	w/Cross-drilled No. 3 cam journal
					1	Cam Set	63-58	1160M Std Only	w/Grooved No. 3 cam journal
<b>B</b>	<b>QTY OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					1	Oil Pump	64-58	224-41123	
					1	Pump Repair Kit	64-58	224-51297	Rotor type
					1	Inter. Shaft	64-61	224-61123	
1	Inter. Shaft	60-58	224-61123						

**31 4.9L 300 OHV L6, 4" Bore 1990-65**  
 L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex Fuel), "9" 1990-96

QTY	TIMING	YEARS	PART NO.	DESCRIPTION					
1	Gear Set	90-77	221-2750LS	Laminated silent type cam gear; 221-2765 not sold separately; Incl. (1) 221-2750L, (1) 221-2765					
1	Gear Set	90-77	221-2766LS	221-2765 not sold separately; Laminated silent type cam gear; Incl. (1) 221-2750L, (1) 221-2765					
1	Gear Set	90-77	221-2764S	58 tooth H/D metal cam gear & 29 tooth crank gear incl.; 221-2763 & 221-2764 not sold separately; Incl. (1) 221-2763, (1) 221-2764					
1	Gear Set	90-65	221-2750AS	Alum. cam gear; Replace in sets only; 221-2765 not sold separately; Incl. (1) 221-2750A, (1) 221-2765					
1	Gear Set	76-65	221-2764S	58 tooth H/D metal cam gear & 29 tooth crank gear incl.; 221-2763 & 221-2764 not sold separately; Incl. (1) 221-2763, (1) 221-2764					
1	Cam Gear	90-77	221-2750L	Laminated silent type cam gear; 58 Teeth					
1	Cam Gear	90-65	221-2750A	Alum.; 58 Teeth					
<b>V</b>	<b>QTY CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					1	Camshaft	90	CS-1230	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA
					1	Camshaft	89-87	CS-1230	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T
					1	Camshaft	89-87	CS-1230	F150, F250, F350, U150; Under 8500 GVW; w/M/T
					1	Camshaft	86-82	CS-1230	w/unleaded fuel; Under 8500 GVW
					1	Camshaft	81	CS-1230	
					1	Camshaft	80-65	CS-1230	
					12	Lifter	90-65	HT-900 Std Only	Hyd.
12	Lifter, Bulk	90-65	HT-900B Std Only	Hyd.; Carton of 122					
1	Prelube	90-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.					
<b>V</b>	<b>QTY CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>					
					1	Cam/Lifter Kit	90	KC-1230	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA; Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B
					1	Cam/Lifter Kit	89-87	KC-1230	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T; Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B
					1	Cam/Lifter Kit	89-87	KC-1230	F150, F200, F350, U150; Under 8500 GVW; w/M/T; Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B
					1	Cam/Lifter Kit	86-82	KC-1230	w/unleaded fuel; Under 8500 GVW; Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B
					1	Cam/Lifter Kit	81-65	KC-1230	Hyd.; Incl. (1) CS-1230, (12) HT-900, (1) 55-403B

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# Ford Truck (Includes Minivans and SUV's)

**4.9L 300 OHV L6, 4" Bore 1990-65 31**

L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex (cont.) Fuel), "9" 1990-96

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	90	<b>KCT-1230</b>	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA; Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	<b>KCT-1230C</b>	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA; Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-1230</b>	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T; Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-1230C</b>	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T; Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-1230</b>	F150, F200, F350, U150; Under 8500 GVW; w/M/T; Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-1230C</b>	F150, F250, F350, U150; Under 8500 GVW; w/M/T; Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-82	<b>KCT-1230</b>	w/unleaded fuel; Under 8500 GVW; Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-82	<b>KCT-1230C</b>	w/unleaded fuel; Under 8500 GVW; Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-80	<b>KCT-1230</b>	Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-80	<b>KCT-1230C</b>	Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-77	<b>KCT-1230</b>	Hyd.; Incl. laminated silent type cam gear; Incl. (1) CS-1230, (12) HT-900, (1) 221-2766LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-77	<b>KCT-1230C</b>	Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-65	<b>KCT-1230C</b>	Hyd.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; Incl. (1) CS-1230, (12) HT-900, (1) 221-2764S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90-65	<b>RP-3260</b>	.060" shorter length; 10.0800" O.A.L.
12	Push Rod	90-65	<b>RP-3183</b>	Std. length; 10.1400" O.A.L.
12	Push Rod, Bulk	90-65	<b>BRP-3260</b>	.060" shorter length; Carton of 100; 10.0800" O.A.L.
12	Push Rod, Bulk	90-65	<b>BRP-3183</b>	Std. length; Carton of 100; 10.1640" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	90-85	<b>R-948</b>	Incl. arm & pivot
12	Arm Assy.	84-65	<b>R-854</b>	Incl. arm, ball & 2-nuts; Incl. 3/8" nut; Incl. 5/16" nut
12	Arm Assy., Bulk	90-85	<b>R-948B</b>	Incl. arm & pivot; Carton of 32
12	Arm Assy., Bulk	84-65	<b>R-854B</b>	Incl. arm, ball & 2-nuts; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
12	Arm	84-65	<b>R-854A</b>	
12	Pivot Ball	84-65	<b>MR-1809</b>	
12	Nut	84-78	<b>MR-1823</b>	5/16" x 24
12	Nut	77-65	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
12	Bolt	90-85	<b>MR-1847</b>	5/16" X 18 UNC w/Washer
12	Pivot	90-85	<b>MR-1811</b>	
12	Stud	77-65	<b>MR-1902</b>	.006" O/S, 3/8" x 24 x 2.600"
12	Stud	77-65	<b>MR-1901</b>	3/8" x 24 x 2.600"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90	<b>V-3937</b> Std-15	Exc. Irrigation; Chrome plated stem; 1.5600" Head Dia., .3420" Stem Dia., 4.7500" O.A.L.
6	Exhaust	90	<b>V-2539X</b> Std Only	Irrigation; Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.7500" O.A.L.
6	Exhaust	89-85	<b>V-2539X</b> Std Only	Irrigation; Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.7500" O.A.L.
6	Exhaust	89-85	<b>V-2074</b> Std-15	Over 8500 GVW; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**31 4.9L 300 OHV L6, 4" Bore 1990-65**  
 (cont.) L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex Fuel), "9" 1990-96

**VALVE TRAIN**

**VALVE TRAIN**

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Exhaust	89-85	V-3937 Std-15	Under 8500 GVW; Chrome plated stem; 1.5600" Head Dia., .3420" Stem Dia., 4.7500" O.A.L.
6	Exhaust	84	V-2074 Std-15	Exc. Irrigation; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	84	V-2539X Std Only	Irrigation; Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.7500" O.A.L.
6	Exhaust	83	V-2074 Std-15	Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	82	V-2074 Std-15	From 3/9/82; Over 8500 GVW; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	82	V-1937X Std Only	To 3/8/82; Over 8500 GVW; Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	82	V-2074 Std-15	Under 8500 GVW; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	81-79	V-1937X Std Only	Over 8500 GVW; Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	81-79	V-2074 Std-15	Under 8500 GVW; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	78-75	V-1937X Std Only	Exc. E100, F100; Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	78-75	V-2074 Std-15	E100, F100; Chrome plated stem; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	74-71	V-1937X Std Only	Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	70	V-1937X Std Only	From change L-18; Chrome plated stem; Stellite face; 1.5590" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust	66-65	V-2040 Std Only	F100, F200, F250; Chrome plated stem; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	90	V-3937B15 15	Exc. Irrigation; Chrome plated stem; Carton of 25; 1.5600" Head Dia., .3570" Stem Dia., 4.7500" O.A.L.
6	Exhaust, Bulk	89-85	V-2074B15 15	Over 8500 GVW; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	89-85	V-3937B15 15	Under 8500 GVW; Chrome plated stem; Carton of 25; 1.5600" Head Dia., .3570" Stem Dia., 4.7500" O.A.L.
6	Exhaust, Bulk	84	V-2074B15 15	Exc. Irrigation; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	83	V-2074B15 15	Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	82	V-2074B15 15	From 3/9/82; Over 8500 GVW; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	82	V-2074B15 15	Under 8500 GVW; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	81-79	V-2074B15 15	Under 8500 GVW; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	78-75	V-2074B15 15	E100, F100; Chrome plated stem; Carton of 25; 1.5590" Head Dia., .3569" Stem Dia., 4.8100" O.A.L.
6	Exhaust, Bulk	66-65	V-2040B Std Only	F100, F200, F250; Chrome plated stem; Carton of 25; 1.5600" Head Dia., .3419" Stem Dia., 4.8100" O.A.L.
6	Intake	90-87	V-2365 Std-15	Exc. F Series; w/Eng. I.D. Codes EK-256-AA, XK-258-AA, EL-270-AA; Chrome plated stem; 1.7760" Head Dia., .3419" Stem Dia., 4.7500" O.A.L.
6	Intake	86-85	V-2365 Std-15	Under 8500 GVW; Chrome plated stem; 1.7760" Head Dia., .3419" Stem Dia., 4.7500" O.A.L.
6	Intake	86-65	V-2041 Std-15	Over 8500 GVW; Chrome plated stem; 1.7800" Head Dia., .3420" Stem Dia., 4.8100" O.A.L.
6	Intake, Bulk	90-87	V-2365B15 15	Exc. F Series; w/Eng. I.D. Codes EK-256-AA, XK-258-AA, EL-270-AA; Chrome plated stem; Carton of 25; 1.7760" Head Dia., .3569" Stem Dia., 4.7500" O.A.L.
6	Intake, Bulk	86-85	V-2365B15 15	Under 8500 GVW; Chrome plated stem; Carton of 25; 1.7760" Head Dia., .3569" Stem Dia., 4.7500" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-65	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	90-65	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	90-65	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	90-65	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	90-65	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-65	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-65	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
6	Spring	90-85	VS-862	Exh.; 1.7820" Free Height
6	Spring	90-85	VS-863	Int.; 1.9700" Free Height

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**4.9L 300 OHV L6, 4" Bore 1990-65 31**

L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex (cont.) Fuel), "9" 1990-96

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
6	Spring	84	<b>VS-823</b>	Exh.; 1.9200" Free Height
6	Spring	84	<b>VS-824</b>	Int.; 2.0500" Free Height
6	Spring	83-65	<b>VS-656</b>	Exh.; Use w/Rotators; 1.8750" Free Height
12	Spring	83-65	<b>VS-648</b>	Exh. & Int.; w/o Rotators; 1.9900" Free Height
6	Spring, Bulk	90-85	<b>VS-862B</b>	Exh.; Carton of 300; 1.7820" Free Height
6	Spring, Bulk	90-85	<b>VS-863B</b>	Int.; Carton of 300; 1.9700" Free Height
6	Spring, Bulk	83-65	<b>VS-656B</b>	Exh.; Use w/Rotators; Carton of 300; 1.8750" Free Height
12	Spring, Bulk	83-65	<b>VS-648B</b>	Exh. & Int.; w/o Rotators; Carton of 200; 1.9900" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	90-80	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
12	Valve Stem Seal	90-80	<b>ST-2092</b>	Positive type; Rubber
12	Valve Stem Seal	79-65	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	79-65	<b>MV-1903</b>	Use w/VG-5038 repair guide; Positive type; Rubber
12	Valve Stem Seal	76-65	<b>MV-1599C</b>	Umbrella type; Rubber
12	Valve Stem Seal Bulk	90-80	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
12	Valve Stem Seal Bulk	79-65	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	76-65	<b>MV-1599</b>	Umbrella type; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-87	<b>245-1687-5</b> Std Only	1.6925" OD, 1.3750" ID, .2160" Depth
6	Exh.	90-65	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
6	Exh.	90-65	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
6	Exh.	90-65	<b>245-1687-3</b> Std Only	1.6925" OD, 1.4375" ID, .2480" Depth
6	Int.	90-65	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	90-65	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	90-65	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	90-65	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	90-65	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
12	Spring Insert	90-65	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
12	Spring Insert	90-65	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
12	Spring Insert	90-65	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
12	Spring Insert	90-65	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
6	Rotocap Assy.	90-65	<b>RC-128SA</b>	Incl. VS-656 spring
6	Rotocap	90-65	<b>RC-128S</b>	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90-83	<b>H519P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
6	Cast Piston	82-77	<b>H519P</b> Std-20-30-40-60	Will replace circular cup piston in complete sets; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
6	Cast Piston	76-70	<b>H519P</b> Std-20-30-40-60	Exc. F100; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
6	Cast Piston	76-65	<b>352AP30</b> * 30-40-60	F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	76-65	<b>352NP</b> Std-30-40-60	F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston	69	<b>H519P</b> Std-20-30-40-60	From change L-16; Exc. F100; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
6	Cast Piston - Individual	90-83	<b>WH519P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped head .300" deep - 8.5:1 C.R.
6	Cast Piston - Individual	82-77	<b>WH519P</b> Std-20-30-40-60	Will replace circular cup piston in complete sets; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped head .300" deep - 8.5:1 C.R.
6	Cast Piston - Individual	76-70	<b>WH519P</b> Std-20-30-40-60	Exc. F100; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped head .300" deep - 8.5:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# Ford Truck (Includes Minivans and SUV's)

**31 4.9L 300 OHV L6, 4" Bore 1990-65**  
 (cont.) L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex Fuel), "9" 1990-96

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
6	Cast Piston - Individual	76-65	<b>W352NP</b> Std-40	F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9751" Pin Dia., Recessed Head .080" deep x 2.480" dia. - 7.2:1 C.R.
6	Cast Piston - Individual	69	<b>WH519P</b> Std-20-30-40-60	From change L-16; Exc. F100; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped head .300" deep - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-83	<b>6KH519P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Prem. Rings	82-77	<b>6KH519P30</b> 30-40-60	Will replace circular cup piston in complete sets; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Prem. Rings	76-70	<b>6KH519P30</b> 30-40-60	Exc. F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Prem. Rings	69	<b>6KH519P30</b> 30-40-60	From change L-16; Exc. F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Econ. Rings	90-83	<b>6XH519P20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Econ. Rings	82-77	<b>6XH519P20</b> 20-30-40-60	Will replace circular cup piston in complete sets; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Econ. Rings	76-70	<b>6XH519P20</b> 20-30-40-60	Exc. F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
1	Cast Piston Set w/Econ. Rings	69	<b>6XH519P20</b> 20-30-40-60	From change L-16; Exc. F100; Cast; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9751" Pin Dia., Recessed Head "D" shaped .300" deep - 8.5:1 C.R.; Effective dome volume - 22cc
6	Pin	90-65	<b>P-2217</b> Std Only	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-65	<b>E-229K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-65	<b>E-464KC</b> Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	90-65	<b>E-229X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-65	<b>WE-229K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	90-65	<b>WE-229X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	90-65	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
1	Repair Sleeve	90-65	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-67	<b>4916M</b> Std-1-10-20-30-40	3.602" max. brg. flange OD
1	Main Set	90-67	<b>7153M10</b> 10-20-30	3.602" max. brg. flange OD; .020" O/S length flange brg.
1	Rod Set	90-65	<b>6-3150CPA10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
1	Rod Set	90-65	<b>6-3150CPA</b> Std-1-10-20-30-40-50	6-3150CAA 60 avail. as unplated & resizeable
1	Rod Set	90-65	<b>6-3150CAA60</b> 60	Unplated & resizeable
6	Rod Pair	90-65	<b>3150CPA</b> Std-1-2-10-20-30-40-50	
1	Cam Set	90-86	<b>1781M</b> Std Only	
1	Cam Set	85	<b>1781M</b> Std Only	From 5/15/85
1	Cam Set	85	<b>1450M</b> Std Only	To 5/14/85
1	Cam Set	84-65	<b>1450M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-65	<b>224-41124</b>	
1	Oil Pump	90-65	<b>224-41124V</b>	High Volume, check pan for clearance
1	Inter. Shaft	90-65	<b>224-61124</b>	
1	Screen Assy.	90-80	<b>224-13124</b>	
1	Screen Assy.	79-75	<b>224-12124</b>	RWD
1	Screen Assy.	79-75	<b>224-14124</b>	4WD; F100, F150, F250, F350
1	Screen Assy.	74-73	<b>224-14124</b>	E100, E200, E300
1	Screen Assy.	74-73	<b>224-12124</b>	RWD; Exc. E100, E150, E200, E250 & E300
1	Screen Assy.	74-73	<b>224-14124</b>	4WD; F100, F150, F250, F350
1	Screen Assy.	72-68	<b>224-12124</b>	RWD
1	Screen Assy.	72-68	<b>224-14124</b>	4WD; F100, F150, F250, F350
1	Screen Assy.	67-65	<b>224-12124</b>	RWD

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# Ford Truck (Includes Minivans and SUV's)

4.9L 300 OHV L6, 4" Bore 1990-65 **31**

L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex (cont.) Fuel), "9" 1990-96

	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
BLOCK	1	Kit Gasket Set	90-87	<b>260-1420</b>	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	86	<b>260-1174</b>	Premium valve stem seals incl.		
	1	Kit Gasket Set	85	<b>260-1174</b>	From 5/15/85; Premium valve stem seals incl.		
	1	Kit Gasket Set	85	<b>260-1006</b>	To 5/14/85; Premium valve stem seals incl.		
	1	Kit Gasket Set	84-68	<b>260-1006</b>	Premium valve stem seals incl.		
	1	Kit Gasket Set	67-65	<b>260-1006</b>	Valve cover gskt. not incl.; Premium valve stem seals incl.		
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	90-87	<b>381-8071</b>			
	1	Brass Block Plug Kit	86-65	<b>381-8014</b>			
	1	Steel Block Plug Kit	90-65	<b>381-4013</b>			
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-87	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6087</b>	<b>205-1087</b>	
	90-87	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-6087M</b>	<b>205-1087M</b>	
	86	Premium valve stem seals incl.	Re-ring		<b>205-765</b>	<b>205-265</b>	
	86	Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-765M</b>	<b>205-265M</b>	
	85	To 5/14/85; Premium valve stem seals incl.	Re-ring		<b>205-612</b>	<b>205-112</b>	
	85	To 5/14/85; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-612M</b>	<b>205-112M</b>	
	85	From 5/15/85; Premium valve stem seals incl.	Re-ring		<b>205-765</b>	<b>205-265</b>	
	85	From 5/15/85; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-765M</b>	<b>205-265M</b>	
	84-68	Premium valve stem seals incl.	Re-ring		<b>205-612</b>	<b>205-112</b>	
	84-68	Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-612M</b>	<b>205-112M</b>	
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-612</b>	<b>205-112</b>	
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Re-ring w/Mains		<b>205-612M</b>	<b>205-112M</b>	
	66-65	Valve cover gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-612</b>	<b>205-112</b>	
	OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains		<b>505-6087A</b>	<b>505-1087A</b>	
	90	E150, E200, E250, E300, E350, F150, F200, F250, F350, U150; w/Eng. I.D. Codes AK-250-AA, AK-252-AA, AK-263-AA, AK-265-AA; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons		<b>MKP-6087A</b> <b>MK-6087A</b>	<b>MKP-1087A</b> <b>MK-1087A</b>	
	90-87	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/3.602" max. brg. flange OD	Block w/Pump & Freeze Plugs Block		<b>BKP-6150</b> <b>BK-6150</b>	----- -----	
	89-87	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains		<b>505-6087A</b>	<b>505-1087A</b>	
	89-87	E150, E200, E250, F150, F200, F250; Over 8500 GVW; w/A/T; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons		<b>MKP-6087A</b> <b>MK-6087A</b>	<b>MKP-1087A</b> <b>MK-1087A</b>	

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# Ford Truck (Includes Minivans and SUV's)

**31 4.9L 300 OHV L6, 4" Bore 1990-65**  
 (cont.) L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex Fuel), "9" 1990-96

YEARS	OVERHAUL KIT (cont.)		PREMIUM	ECONOMY
	DESCRIPTION		KIT NO.	KIT NO.
89-87	F150, F200, F350, U150; Under 8500 GVW; w/M/T; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-6087A	505-1087A
89-87	F150, F200, F350, U150; Under 8500 GVW; w/M/T; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons	MKP-6087A MK-6087A	MKP-1087A MK-1087A
86	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-765C	505-265C
86	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons	MKP-765C MK-765C	MKP-265C MK-265C
85	To 5/14/85; w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612C	MK-112C
85	To 5/14/85; w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-612E	505-112E
85	To 5/14/85; w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons	MKP-612E MK-612E	MKP-112E MK-112E
85	From 5/15/85; w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-765C	505-265C
85	From 5/15/85; w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons	MKP-765C MK-765C	MKP-265C MK-265C
84-83	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-612E	505-112E
84-83	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master	MKP-612E	MKP-112E
84-82	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612C	MK-112C
84-82	w/Unleaded fuel; Under 8500 GVW; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612E	MK-112E
82	w/Unleaded fuel; Under 8500 GVW; Will replace circular cup piston in complete sets; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-612E	505-112E
82	w/Unleaded fuel; Under 8500 GVW; Will replace circular cup piston in complete sets; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master	MKP-612E	MKP-112E
81-77	Premium valve stem seals incl.; Incl. laminated silent type cam gear; w/3.602" max. brg. flange OD	Master w/o Pistons	MK-612C	MK-112C
81-77	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-612E	505-112E
81-77	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master Master w/o Pistons	MKP-612E MK-612E	MKP-112E MK-112E
76-70	Exc. F100; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains	505-612E	505-112E

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# Ford Truck (Includes Minivans and SUV's)

**4.9L 300 OHV L6, 4" Bore 1990-65 31**

**L/D Truck VIN Codes "B" 1965-86, "C" 1978, "E" 1980-82, "K" 1978-79, "Y" 1983-97, "Z" 1994-97 (Flex (cont.) Fuel), "9" 1990-96**

K I T S	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	K I T S
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>	
	76-70	Exc. F100; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master <b>MKP-612E</b>	<b>MKP-112E</b>	
	76-69	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons <b>MK-612E</b>	<b>MK-112E</b>	
	69	From change L-16; Exc. F100; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.	Master w/o Rods & Mains <b>505-612E</b>	<b>505-112E</b>	
	69	From change L-16; Exc. F100; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master <b>MKP-612E</b>	<b>MKP-112E</b>	
	68	Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons <b>MK-612E</b>	<b>MK-112E</b>	
	67	Valve cover gskt. not incl.; Premium valve stem seals incl.; 58 tooth H/D metal cam gear & 29 tooth crank gear incl.; w/3.602" max. brg. flange OD	Master w/o Pistons <b>MK-612E</b>	<b>MK-112E</b>	

**4.9L 300 OHV LPG L6, 4" Bore 1988-82 32**

**L/D Truck VIN Code "9" 1982-88 (LPG)**

<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	88	<b>381-8071</b>	
1	Brass Block Plug Kit	85-82	<b>381-8014</b>	
1	Steel Block Plug Kit	85-82	<b>381-4013</b>	

**5.0L 302 OHV V8, 4" Bore 1990-68 33**

**L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92**

V A L V E  T R A I N	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	V A L V E  T R A I N
	1	3 Piece Set	90	<b>KT3-370SA1</b>	Incl. silent type chain; Incl. (1) 222-370, (1) 223-818, (1) 223-819	
1	3 Piece Set	90-88	<b>KT3-163SA1</b>	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612		
1	3 Piece Set	87	<b>KT3-163SA1</b>	From 9/1/87; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612		
1	3 Piece Set	87	<b>KT3-358SA</b>	To 8/31/87; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431		
1	3 Piece Set	86-72	<b>KT3-358SA</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431		
1	3 Piece Set	72-69	<b>KT3-358S</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431		
1	Timing Set w/Gaskets	90-88	<b>CTS-2002</b>	Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub		
1	Timing Set w/Gaskets	87-79	<b>CTS-2000</b>	Incl. silent type chain		
1	Timing Set w/Gaskets	78-73	<b>CTS-2001</b>	Incl. silent type chain		
1	Timing Chain	90	<b>222-370</b>	Silent type; 58 Links		
1	Timing Chain	90-88	<b>222-163</b>	Double rlr.; 58 Links		
1	Timing Chain	87	<b>222-163</b>	From 9/1/87; Double rlr.; 58 Links		
1	Timing Chain	87	<b>222-358</b>	To 8/31/87; Silent type; 58 Links		
1	Timing Chain	86-69	<b>222-358</b>	Silent type; 58 Links		
1	Crank Sprocket	90	<b>223-819</b>	21 Teeth; Silent type; 21 Teeth		
1	Crank Sprocket	90-88	<b>223-531</b>	w/rlr. type chain; Double row; Use w/Double rlr. chain; 21 Teeth		
1	Crank Sprocket	87	<b>223-531</b>	From 9/1/87; w/rlr. type chain; Double row; Use w/Double rlr. chain; 21 Teeth		
1	Crank Sprocket	87	<b>223-431</b>	To 8/31/87; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth		
1	Crank Sprocket	86-69	<b>223-431</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth		
1	Cam Sprocket	90	<b>223-818</b>	42 Teeth; Silent type; 42 Teeth		
1	Cam Sprocket	90-88	<b>223-612</b>	w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth		
1	Cam Sprocket	87	<b>223-612</b>	From 9/1/87; w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth		
1	Cam Sprocket	87	<b>223-430</b>	To 8/31/87; From Ser. No. P20001; Use w/Silent type chain; 42 Teeth		

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# Ford Truck (Includes Minivans and SUV's)

**33** 5.0L 302 OHV V8, 4" Bore 1990-68  
 (cont.) L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam Sprocket	86-73	223-430	Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	223-430	From Ser. No. P20001; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	223-406	To Ser. No. P20000; 42 Teeth
1	Cam Sprocket	71-69	223-406	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-77	CS-668	
1	Camshaft	76	CS-668	From Ser. No. A50001
1	Camshaft	76	CS-560	To Ser. No. A50000; Hyd.
1	Camshaft	75-73	CS-560	Hyd.
1	Camshaft	72	CS-560	Exc. Calif. w/A/T; Hyd.
1	Camshaft	71-69	CS-560	Hyd.
16	Lifter	90-69	HT-900 Std Only	Hyd.
16	Lifter	90-69	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	90-69	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	90-69	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	90-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-77	KC-668	Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	76	KC-668	From Ser. No. A50001; Hyd.; Incl. (1) CS-668, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	76	KC-560	To Ser. No. A50000; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	75-73	KC-560	Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	72	KC-560	Exc. Calif. w/A/T; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71-69	KC-560	Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-88	KCT-668A	Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-668, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	87	KCT-668A	From 9/1/87; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-668, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	87	KCT-668	To 8/31/87; Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-77	KCT-668	Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-668	From Ser. No. A50001; Hyd.; Incl. silent type chain; Incl. (1) CS-668, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-560C	To Ser. No. A50000; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-73	KCT-560C	Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-560A	Exc. Calif. w/A/T; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-560C	Exc. Calif. w/A/T; Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-69	KCT-560A	Hyd.; Incl. silent type chain; Incl. (1) CS-560, (16) HT-900, (1) KT3-358S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-70	RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	90-70	RP-3167	6.8760" O.A.L.
16	Push Rod	69	RP-3223R	From Ser. No. BE0001; Chrome-Moly; 6.8850" O.A.L.
16	Push Rod	69	RP-3167	From Ser. No. BE0001; 6.8760" O.A.L.
16	Push Rod	69	RP-3222R	To Ser. No. BE0000; Chrome-Moly; 6.8040" O.A.L.
16	Push Rod	69	RP-3165	To Ser. No. BE0000; 6.8010" O.A.L.
16	Push Rod, Bulk	90-70	BRP-3167	Carton of 100; 6.8760" O.A.L.
16	Push Rod, Bulk	69	BRP-3167	From Ser. No. BE0001; Carton of 100; 6.8760" O.A.L.
16	Push Rod, Bulk	69	BRP-3165	To Ser. No. BE0000; Carton of 100; 6.8010" O.A.L.
8	Push Rod Guide Plate	78-68	MR-1897	Speed-Pro flat guide plate for 5/16" dia. push rods; Requires screw-in studs
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-79	R-879	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	R-879	From Ser. No. BE0001; Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	R-847	To Ser. No. BE0000; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	77-69	R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy., Bulk	90-79	R-879B	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64

VALVE TRAIN

VALVE TRAIN

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# Ford Truck (Includes Minivans and SUV's)

**5.0L 302 OHV V8, 4" Bore 1990-68 33**

**L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92 (cont.)**

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Arm Assy., Bulk	78	<b>R-879B</b>	From Ser. No. BE0001; Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	78	<b>R-847B</b>	To Ser. No. BE0000; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	77-69	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm	90-79	<b>R-1091R</b>	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Arm	78	<b>R-1091R</b>	From Ser. No. BE0001; Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Pivot Ball	78-69	<b>MR-1809</b>	
16	Nut	90-69	<b>MR-1823</b>	5/16" x 24
16	Nut	76-69	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Bolt	90-78	<b>MR-1847</b>	5/16" X 18 UNC w/Washer
16	Pivot	90-79	<b>MR-1811</b>	
16	Pivot	78	<b>MR-1811</b>	From Ser. No. BE0001
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-70	<b>V-1961</b> Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	85-69	<b>V-4551X</b> Std Only	Chrome plated stem; Stellite face; 1.4520" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	69	<b>V-1961</b> Std-3-15	From Ser. No. E10001; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	69	<b>V-1784</b> Std-15	To Ser. No. E10000; 1.4500" Head Dia., .3415" Stem Dia., 4.8730" O.A.L.
8	Exhaust, Bulk	90-70	<b>V-1961B</b> Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	69	<b>V-1961B</b> Std-15	From Ser. No. E10001; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	69	<b>V-1784B15</b> 15	To Ser. No. E10000; Carton of 25; 1.4500" Head Dia., .3565" Stem Dia., 4.8730" O.A.L.
8	Intake	90-88	<b>V-2045</b> Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	87-77	<b>V-2045</b> Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	76-70	<b>V-1932</b> Std-15	Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	69	<b>V-1932</b> Std-15	From Ser. No. E10001; Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake	69	<b>V-1785</b> Std-15	To Ser. No. E10000; 1.7740" Head Dia., .3420" Stem Dia., 4.8630" O.A.L.
8	Intake, Bulk	90-88	<b>V-2045B</b> Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	87-77	<b>V-2045B</b> Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	76-70	<b>V-1932B15</b> 15	Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	69	<b>V-1932B15</b> 15	From Ser. No. E10001; Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk	69	<b>V-1785B</b> Std-15	To Ser. No. E10000; Carton of 25; 1.7800" Head Dia., .3420" Stem Dia., 4.8730" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-69	<b>VG-5032</b>	Exh.; .4375" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-80	<b>VS-733</b>	Exh.; 1.9230" Free Height
8	Spring	90-80	<b>VS-718</b>	Int.; 2.0280" Free Height
8	Spring	79	<b>VS-733</b>	Exh.; 1.9230" Free Height
8	Spring	79	<b>VS-718</b>	Int.; 2.0280" Free Height
8	Spring	78	<b>VS-733</b>	Exh.; 1.9230" Free Height
8	Spring	78	<b>VS-718</b>	Int.; From Ser. No. BE0001; 2.0280" Free Height
8	Spring	78	<b>VS-703</b>	Int.; To Ser. No. BE0000; 2.0560" Free Height
8	Spring	77-73	<b>VS-733</b>	Exh.; 1.9230" Free Height
8	Spring	77-73	<b>VS-703</b>	Int.; 2.0560" Free Height
16	Spring	72-70	<b>VS-703</b>	Exh. & Int.; 2.0560" Free Height
16	Spring	69-68	<b>VS-672</b>	Exh. & Int.; 1.9700" Free Height
8	Spring, Bulk	90-80	<b>VS-733B</b>	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	90-80	<b>VS-718B</b>	Int.; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	79	<b>VS-733B</b>	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	79	<b>VS-718B</b>	Int.; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	78	<b>VS-733B</b>	Exh.; Carton of 250; 1.9230" Free Height

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**33 5.0L 302 OHV V8, 4" Bore 1990-68**  
 (cont.) L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
8	Spring, Bulk	78	VS-718B	Int.; From Ser. No. BE0001; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	78	VS-703B	Int.; To Ser. No. BE0000; Carton of 250; 2.0560" Free Height
8	Spring, Bulk	77-73	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	77-73	VS-703B	Int.; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	72-70	VS-703B	Exh. & Int.; Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-69	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	77-69	MV-1903	Use w/VG-5032 repair guide; Positive type; Rubber
8	Valve Stem Seal	89-81	MV-1819C	Exh.; Umbrella type; Nylon
8	Valve Stem Seal	85-81	MV-1906	Int.; Umbrella type; Nylon
16	Valve Stem Seal	80-69	MV-1796C	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	90-69	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	89-81	MV-1819	Exh.; Umbrella type; Carton of 50; Nylon
16	Valve Stem Seal Bulk	80-69	MV-1796	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-69	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-69	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	90-69	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
8	Int.	90-69	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-69	VK-115	1 groove; Square cut key groove
32	Keeper	90-69	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-69	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-69	259-102C	.015"; Carton of 100
16	Spring Insert	90-69	259-102B	.030"; Carton of 100
16	Spring Insert	90-69	259-102A	.060"; Carton of 100
16	Spring Insert	90-69	259-102ARS	.060"; Carton of 500
8	Rotocap	90-73	RC-140	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-87	517CP Std-20-30-40-60	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .032" deep x 2.500" dia.
8	Cast Piston	90-87	H654CP20 20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; DurOshield® skirt coated piston
8	Cast Piston	90-87	H654P Std-20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston	86-77	273AP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston	86-77	H654CP20 20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; DurOshield® skirt coated piston
8	Cast Piston	86-77	H654P Std-20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston	72-69	272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual	90-87	W517CP Std-20-30-40-60	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .032" deep x 2.500" dia.
8	Cast Piston - Individual	90-87	WH654P Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	86-77	W273AP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
8	Cast Piston - Individual	86-77	WH654P Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
8	Cast Piston - Individual	72-69	W272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-87	8K517CP30 30-40-60	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .032" deep x 2.500" dia.

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# Ford Truck (Includes Minivans and SUV's)

**5.0L 302 OHV V8, 4" Bore 1990-68 33**

**L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92 (cont.)**

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	90-87	<b>8KH654CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	86-77	<b>8K273AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Prem. Rings	86-77	<b>8KH654CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	72-69	<b>8K272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-87	<b>8XH654P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	86-77	<b>8X273AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R. w/64cc cyl. head
1	Cast Piston Set w/Econ. Rings	86-77	<b>8XH654P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.599" CD, .9122" Pin Dia., Recessed Head .030" deep x 2.500" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	72-69	<b>8X272AP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Powerforged	85-78	<b>L-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72-69	<b>L-2305F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	85-78	<b>WL-2482F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-69	<b>WL-2305F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	85-78	<b>8KL2482F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9123" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
<b>B</b>	<b>L</b>	<b>O</b>	<b>C</b>	<b>K</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	<b>E-251K</b> Std-10-20-30-40-60	Use w/H654P or H654CP piston; 2-5/64, 1-3/16
1	Premium Set	90-87	<b>E-251KC</b> Std-10-20-30-40-60	Use w/H654P piston; 2-5/64, 1-3/16
1	Premium Set	90-87	<b>E-458K</b> Std-5-20-30-40-60	2-1.50MM, 1-4.00MM
1	Premium Set	86-69	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	86-69	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	86-69	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-87	<b>E-251X</b> Std-10-20-30-40-60-80	Use w/H654P piston; 2-5/64, 1-3/16
1	Standard Set	90-87	<b>E-458X</b> Std-20-30-40-60	2-1.50MM, 1-4.00MM
1	Standard Set	86-69	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-251K</b> Std-20-30-40-60	Use w/WH654P piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-251KC</b> Std-20-30-40-60	Use w/WH654P piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-458K</b> Std-20-30-40-60	2-1.50MM, 1-4.00MM
8	Premium Single Cylinder Set	86-69	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	86-69	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-87	<b>WE-251X</b> Std-20-30-40-60-80	Use w/WH654P piston; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	86-69	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	90-69	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	90-69	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-68	<b>7151M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-68	<b>4125MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set	90-68	<b>4125M</b> Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set	90-68	<b>8-2600A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-68	<b>8-2600A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	90-68	<b>8-2600CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore

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# Ford Truck (Includes Minivans and SUV's)

**33** 5.0L 302 OHV V8, 4" Bore 1990-68  
 (cont.) L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92

QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	(cont.) Rod Set	90-68	<b>8-2600CP</b> Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable	
	1	Rod Set	90-68	<b>8-2600CA60</b> 60	Unplated & resizeable	
	8	Rod Pair	90-68	<b>2600CP</b> Std-1-2-10-20-30-40		
	8	Rod Pair	90-68	<b>2600A</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
	1	Cam Set	90-68	<b>1204M</b> Std-10	Babbitt material; Full round design	
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	90-68	<b>224-41118</b>		
	1	Oil Pump	90-68	<b>224-43370</b>	High Pressure	
	1	Oil Pump	90-68	<b>224-41128</b>	High Volume, check pan for clearance; Incl. inter. shaft	
	1	Inter. Shaft	90-68	<b>224-61118</b>		
	1	Screen Assy.	90-81	<b>224-13118</b>		
	1	Screen Assy.	80	<b>224-13118</b>	F100, F150	
	1	Screen Assy.	79-78	<b>224-12118</b>	F100, F150	
	1	Screen Assy.	77-75	<b>224-14241</b>	Bronco	
	1	Screen Assy.	77-75	<b>224-12118</b>	F100, F150	
	1	Screen Assy.	74-73	<b>224-14241</b>	Bronco, E100, E150, E200, E250, E300	
	1	Screen Assy.	74-73	<b>224-12118</b>	F100	
	1	Screen Assy.	72-71	<b>224-14241</b>	Bronco	
	1	Screen Assy.	72-71	<b>224-12118</b>	F100	
	1	Screen Assy.	70-68	<b>224-12118</b>	F100	
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION	
	1	Kit Gasket Set	90	<b>260-1559</b>	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	89-88	<b>260-1451</b>	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	87	<b>260-1451</b>	From 4/16/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	87	<b>260-1169</b>	Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	86	<b>260-1169</b>	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	85-84	<b>260-1169</b>	One-piece rear main brg. seal incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	83	<b>260-1169</b>	From 12/1/82; One-piece rear main brg. seal incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	82	<b>260-1125</b>	To 11/30/82; Premium set; Premium valve stem seals incl.	
	1	Kit Gasket Set	81-68	<b>260-1125</b>	Premium set; Premium valve stem seals incl.	
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
	1	Brass Block Plug Kit	90-68	<b>381-8015</b>		
	1	Steel Block Plug Kit	90-68	<b>381-4010</b>		
RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90		Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring	<b>205-6215</b>	<b>205-1215</b>
	90		Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring w/Mains	<b>205-6345M</b>	<b>205-1345M</b>
	89-88		Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6121M</b>	<b>205-1121M</b>
	89-88		Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-6121</b>	<b>205-1121</b>
	87		Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6002M</b>	<b>205-1002M</b>
	87		Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-6002</b>	<b>205-1002</b>
	87		From 4/16/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6121M</b>	<b>205-1121M</b>

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# Ford Truck (Includes Minivans and SUV's)

5.0L 302 OHV V8, 4" Bore 1990-68 **33**

L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92 (cont.)

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
87	From 4/16/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-6121	205-1121
87	Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring w/Mains	205-760M	205-260M
87	Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring	205-760	205-260
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring w/Mains	205-760M	205-260M
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring	205-760	205-260
85-84	One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring w/Mains	205-760M	205-260M
85-84	One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring	205-760	205-260
83	From 12/1/82; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring w/Mains	205-760M	205-260M
83	From 12/1/82; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/2-5/64, 1-3/16 ring groove	Re-ring	205-760	205-260
82	To 11/30/82; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Re-ring	205-653	205-153
82	To 11/30/82; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Re-ring w/Mains	205-653M	205-153M
81-69	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Re-ring	205-653	205-153
81-69	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.	Re-ring w/Mains	205-653M	205-153M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg. Premium valve stem seals incl.; Incl. H606P piston	Block	BK-6154	----
90	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. H654P piston	Block w/Pump & Freeze Plugs	BKP-6154	----
90	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. 517P piston	Block w/Pump & Freeze Plugs Block	BKP-6155 BK-6155	---- ----
90	Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6215A	MKP-1215A
90	Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6215A	505-1215A

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# Ford Truck (Includes Minivans and SUV's)

**33** 5.0L 302 OHV V8, 4" Bore 1990-68  
 (cont.) L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	Multi-piece oil pan gskt. incl.; Use w/517CP piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6215A	MK-1215A
90	Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6253A	MKP-1253A
90	Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6253A	505-1253A
90	Multi-piece oil pan gskt. incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6253A	MK-1253A
89-88	Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6121C	MKP-1121C
89-88	Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6121C	505-1121C
89-88	Multi-piece oil pan gskt. incl.; Use w/517P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6121C	MK-1121C
89-88	Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6251C	MKP-1251C
89-88	Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6251C	505-1251C
89-88	Multi-piece oil pan gskt. incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6251C	MK-1251C
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-6002A	MK-1002A
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. O.E. style pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6002A	MKP-1002A
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. O.E. style pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6002A	505-1002A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Incl. O.E. style pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6121A	MKP-1121A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Incl. O.E. style pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6121A	505-1121A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Use w/517CP piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-6121A	MK-1121A
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6121C	MKP-1121C

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# Ford Truck (Includes Minivans and SUV's)

5.0L 302 OHV V8, 4" Bore 1990-68 **33**

L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92 (cont.)

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Incl. 517CP piston; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6121C	505-1121C
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Use w/517P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6121C	MK-1121C
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6250A	MKP-1250A
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6250A	505-1250A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6251A	MKP-1251A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6251A	505-1251A
87	From 4/16/87 to 8/31/87; Multi-piece oil pan gskt. incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-6251A	MK-1251A
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master	MKP-6251C	MKP-1251C
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Rods & Mains	505-6251C	505-1251C
87	From 9/1/87; Multi-piece oil pan gskt. incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master w/o Pistons	MK-6251C	MK-1251C
87	To 8/31/87; Int. valve stem seals to 4/15/87 not incl.; One-piece rear main brg. seal incl.; Use w/H654P piston; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Pistons	MK-760A	MK-260A
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6250A	MKP-1250A
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6250A	505-1250A
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-760A MK-760A	MKP-260A MK-260A
86	Int. valve stem seals not incl.; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-760A	505-260A
85-84	One-piece rear main brg. seal incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6250A	MKP-1250A
85-84	One-piece rear main brg. seal incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6250A	505-1250A

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# Ford Truck (Includes Minivans and SUV's)

## 33 5.0L 302 OHV V8, 4" Bore 1990-68

(cont.) L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
85-84	One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-760A MK-760A	MKP-260A MK-260A
85-84	One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-760A	----
85-84	One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-760A	505-260A
83	From 12/1/82; One-piece rear main brg. seal incl.; Incl. H654P pistons; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-6250A	MKP-1250A
83	From 12/1/82; One-piece rear main brg. seal incl.; Incl. H654P pistons; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-6250A	505-1250A
83	From 12/1/82; One-piece rear main brg. seal incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-760A MK-760A	MKP-260A MK-260A
83	From 12/1/82; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-760A	----
83	From 12/1/82; One-piece rear main brg. seal incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-760A	505-260A
82	To 11/30/82; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
82	To 11/30/82; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653H	505-153H
82	To 11/30/82; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653H MK-653H	MKP-153H MK-153H
81-78	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653H	----
81-77	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653H	505-153H
81-77	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653H MK-653H	MKP-153H MK-153H
76	To Ser. No. A50000; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653F	MK-153F
76	From Ser. No. A50001; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653H	MK-153H
75-73	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master w/o Pistons	MK-653F	MK-153F
72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653D	----
72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-653D	505-153D
72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	MKP-653D MK-653D	MKP-153D MK-153D
72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-653F	----

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# Ford Truck (Includes Minivans and SUV's)

<b>5.0L 302 OHV V8, 4" Bore 1990-68 33</b>					
<b>L/D Truck VIN Codes "F" 1968-85, "G" 1968-79, "H" 1980-85, "N" 1985-96, "P" 1996-2001, "Y" 1987-92 (cont.)</b>					
K I T S	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>Master w/o Rods &amp; Mains</b>	<b>505-653F</b>	<b>505-153F</b>
	72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain			
	72	Exc. Calif. w/A/T; Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-653F MK-653F</b>	<b>MKP-153F MK-153F</b>
	71-69	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. contoured design thrust brg.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings	<b>MKF-653D</b>	----
	71-69	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-653D</b>	<b>505-153D</b>
71-69	Premium gskt. set incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. contoured design thrust brg.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-653D MK-653D</b>	<b>MKP-153D MK-153D</b>	
<b>5.4L 330 OHV V8 (M/D Eng.), 3.875" Bore 1977-75 34</b>					
<b>L/D Truck</b>					
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	77-75	<b>381-8017</b>		
1	Steel Block Plug Kit	77-75	<b>381-4015</b>		
<b>5.4L 332 OHV V8, 4" Bore 1963-60 35</b>					
<b>L/D Truck</b>					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Chain	63-60	<b>222-494</b>	48 Links	
1	Cam Sprocket	63-60	<b>223-284</b>	36 Teeth	
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Push Rod	63-60	<b>RP-3230R</b>	w/Hyd. lifters; Ball & cup type ends; Chrome-Moly; 9.3300" O.A.L.	
16	Push Rod	63-60	<b>RP-3023</b>	w/Hyd. lifters; Ball & cup type ends; 9.5300" O.A.L.	
16	Push Rod	63-60	<b>RP-3227R</b>	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.	
16	Push Rod	63-60	<b>RP-3172B</b>	Ball & ball type ends; 9.5600" O.A.L.	
16	Push Rod	63-60	<b>RP-3172</b>	Ball & ball type ends; 9.6210" O.A.L.	
16	Push Rod	63-60	<b>RP-3172A</b>	Ball & ball type ends; 9.6800" O.A.L.	
16	Push Rod	63-60	<b>RP-3172C</b>	9.59" O.A.L.; 9.5910" O.A.L.	
16	Push Rod, Bulk	63-60	<b>BRP-3172B</b>	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
16	Push Rod, Bulk	63-60	<b>BRP-3172</b>	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exhaust	63-60	<b>V-1853</b> Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	
8	Exhaust, Bulk	63-60	<b>V-1853B</b> Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Spring	63-60	<b>VS-1428</b>	2.3430" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Valve Stem Seal	63-60	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate	
16	Valve Stem Seal Bulk	63-60	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exh.	63-60	<b>245-1687-1N</b> Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth	
8	Exh.	63-60	<b>245-1687-1</b> Std Only	1.6925" OD, 1.4060" ID, .2480" Depth	
8	Int.	63-60	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
32	Keeper	63-60	<b>VK-138</b>	1 groove; Square cut key groove	
32	Keeper	63-60	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	63-60	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	63-60	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100	
16	Spring Insert	63-60	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100	
16	Spring Insert	63-60	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500	
16	Spring Insert	63-60	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100	
16	Spring Insert	63-60	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	63-60	<b>E-248K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16	
1	Standard Set	63-60	<b>E-248X</b> Std-30-40-60	1-5/64, 1-3/32, 1-3/16	
8	Premium Single Cylinder Set	63-60	<b>WE-248K</b> Std-30	1-5/64, 1-3/32, 1-3/16	
8	Standard Single Cylinder Set	63-60	<b>WE-248X</b> Std-30-40	1-5/64, 1-3/32, 1-3/16	

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# Ford Truck (Includes Minivans and SUV's)

**35** 5.4L 332 OHV V8, 4" Bore 1963-60  
(cont.) L/D Truck

QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	63-60	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	63-60	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-60	4020M Std-10	3.684" max. flange OD
1	Rod Set	63-60	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	63-60	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	63-60	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
8	Rod Pair	63-60	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.
1	Cam Set	63-60	1445M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	63-60	224-41173	
1	Oil Pump	63-60	224-43365A	High Pressure
1	Oil Pump	63-60	224-41177	High Volume, check pan for clearance
1	Inter. Shaft	63-60	224-61114	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	63-60	260-1035	Exh. pipe flange not incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	63-60	381-8017	
1	Steel Block Plug Kit	63-60	381-4015	
<b>RE-RING KIT</b>				<b>PREMIUM</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>
63-60	Exh. pipe flange not incl.; Squirt hole removed from all Ford V Eng's.	Re-ring		<b>205-890</b>
				<b>ECONOMY</b>
				<b>KIT NO.</b>
				<b>205-390</b>

**36** 5.8L 351 OHV V8 (Modified), 4" Bore 1981-77  
L/D Truck VIN Codes "G" 1980-82, "H" 1975-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	81-77	KT3-494SA2	Incl. (1) 222-494, (1) 223-420A, (1) 223-493
1	Timing Chain	81-77	222-494	48 Links
1	Crank Sprocket	81-77	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	81-77	223-420A	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	81-77	CS-667	Hyd.
16	Lifter	81-77	HT-900 Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	81-77	HT-900B Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	81-77	55-400	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	81-80	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	79	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	78-77	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-80	KCT-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	79	KCT-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-77	KCT-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	81-77	RP-3186	9.5000" O.A.L.
16	Push Rod, Bulk	81-77	BRP-3186	Carton of 100; 9.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	81-77	R-855	Incl. arm & pivot
16	Arm Assy., Bulk	81-77	R-855B	Incl. arm & pivot; Carton of 64
16	Arm	81-77	R-855A	
16	Bolt	81-77	MR-1951	5/16" X 18 UNC w/o washer
16	Pivot	81-77	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	81-78	V-2095 Std-15	Chrome plated stem; 1.6560" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust	77	V-2030 Std-15	4 groove; Chrome plated stem; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	81-78	V-2095B15 15	1 groove; Chrome plated stem; Carton of 25; 1.6545" Head Dia., .3564" Stem Dia., 5.0500" O.A.L.

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 351 OHV V8 (Modified), 4" Bore 1981-77 36**  
**L/D Truck VIN Codes "G" 1980-82, "H" 1975-79 (cont.)**

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust, Bulk	77	<b>V-2030B</b> Std-15	4 groove; Chrome plated stem; Carton of 25; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Intake	81-79	<b>V-2142</b> Std-15	1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	78	<b>V-2142</b> Std-15	From Ser. No. CG0001; 1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	78	<b>V-2075</b> Std-15	To Ser. No. CG0000; 4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	77	<b>V-2075</b> Std-15	4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	81-79	<b>V-2142B15</b> 15	1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	78	<b>V-2142B15</b> 15	From Ser. No. CG0001; 1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	78	<b>V-2075B</b> Std-15	To Ser. No. CG0000; 4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	77	<b>V-2075B</b> Std-15	4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	81-77	<b>VG-5005</b>	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
16	Guide	81-77	<b>VG-5005H</b>	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	81-77	<b>VG-5005T</b>	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	81-77	<b>VG-5005B</b>	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	81-77	<b>VG-5005TB</b>	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	81-78	<b>VS-1435</b>	Exh.; 1.9650" Free Height
8	Spring	81-78	<b>VS-703</b>	Int.; 2.0560" Free Height
16	Spring	77	<b>VS-703</b>	Exh. & Int.; 2.0560" Free Height
8	Spring, Bulk	81-78	<b>VS-1435B</b>	Exh.; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	81-78	<b>VS-703B</b>	Int.; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	77	<b>VS-703B</b>	Exh. & Int.; Carton of 250; 2.0560" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	81-77	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	81-80	<b>MV-1819C</b>	Exh.; Umbrella type; Nylon
8	Valve Stem Seal	81-80	<b>MV-1906</b>	Int.; Umbrella type; Nylon
16	Valve Stem Seal	79-77	<b>MV-1906</b>	Exh. & Int.; Umbrella type; Nylon
8	Valve Stem Seal Bulk	81-80	<b>MV-1819</b>	Exh.; Umbrella type; Carton of 50; Nylon
16	Valve Stem Seal Bulk	81-77	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	81-77	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	81-77	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	81-77	<b>245-2125-2</b> Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	81-78	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	81-78	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper	78-77	<b>VK-205</b>	4 groove
32	Keeper	78-77	<b>VK-205R</b>	4 groove; Hardened
32	Keeper, Bulk	81-78	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	81-77	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	81-77	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	81-77	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	81-77	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	81-77	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	81-77	<b>451P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.918" CD, .9751" Pin Dia., Recessed Head .088" deep x 2.770" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Cast Piston - Individual	81-77	<b>W451P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.918" CD, .9751" Pin Dia., Recessed Head .088" deep x 2.770" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Pin	81-77	<b>P-2217</b> Std Only	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	81-77	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	81-77	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	81-77	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16

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# Ford Truck (Includes Minivans and SUV's)

**36** 5.8L 351 OHV V8 (Modified), 4" Bore 1981-77  
(cont.) L/D Truck VIN Codes "G" 1980-82, "H" 1975-79

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
8	Premium Single Cylinder Set	81-77	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	81-77	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	81-77	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	81-77	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	81-77	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	81-77	<b>5078M</b> Std-1-10-20-30-40	
1	Main Set	81-77	<b>7154M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	81-77	<b>5078MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	81-77	<b>8-3400CP</b> Std-1-10-20-30-40	
1	Rod Set	81-77	<b>8-3400CP10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair	81-77	<b>3400CP</b> Std-1-10-20-30-40	
1	Cam Set	81-77	<b>1403M</b> Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	81-77	<b>224-41166</b>	
1	Oil Pump	81-77	<b>224-41166V</b>	High Volume, check pan for clearance
1	Pump Repair Kit	81-77	<b>224-51139</b>	
1	Inter. Shaft	81-77	<b>224-61166</b>	
1	Screen Assy.	81-80	<b>224-12166</b>	
1	Screen Assy.	79-78	<b>224-11166</b>	F100, F150, F200, F250; RWD
1	Screen Assy.	77	<b>224-11166</b>	F100, F150, F200, F250, F350; RWD
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	81-77	<b>260-1014</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	81-77	<b>260-4004</b>	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	81-77	<b>381-8016</b>	
1	Steel Block Plug Kit	81-77	<b>381-4018</b>	

RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
81-77	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Re-ring		<b>205-624</b>	<b>205-124</b>
81-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-624AM</b>	<b>205-124AM</b>
OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
81-80	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Master Master w/o Pistons		<b>MKP-624J</b> <b>MK-624J</b>	<b>MKP-124J</b> <b>MK-124J</b>
81-80	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		<b>505-624J</b>	<b>505-124J</b>
79	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Master Master w/o Pistons		<b>MKP-624J</b> <b>MK-624J</b>	<b>MKP-124J</b> <b>MK-124J</b>
79	Int. manifold gskt. not incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		<b>505-624J</b>	<b>505-124J</b>
78-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Master Master w/o Pistons		<b>MKP-624J</b> <b>MK-624J</b>	<b>MKP-124J</b> <b>MK-124J</b>
78-77	Int. manifold gskts. not incl.; Premium valve stem seals incl.		Master w/o Rods & Mains		<b>505-624J</b>	<b>505-124J</b>

**37** 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69  
L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" 1980

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	<b>KT3-163SA1</b>	Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	89-88	<b>KT3-163SA1</b>	VIN Code "H"; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	87-86	<b>KT3-163SA1</b>	VIN Code "H"; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	85	<b>KT3-163SA1</b>	From 12/10/84; VIN Code "H"; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-531, (1) 223-612
1	3 Piece Set	85	<b>KT3-163SA</b>	To 12/9/84; VIN Code "H"; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 37**

**L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" (cont.) 1980**

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	85-84	<b>KT3-358SA</b>	VIN Code "G"; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	84	<b>KT3-163SA</b>	VIN Code "H"; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) 222-163, (1) 223-468, (1) 223-531
1	3 Piece Set	83-75	<b>KT3-358SA</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	74-73	<b>KT3-358SA</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	72	<b>KT3-358SA</b>	From change L-7; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set	72	<b>KT3-358S</b>	To change L-7; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	3 Piece Set	71-69	<b>KT3-358S</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	Timing Set w/Gaskets	90-88	<b>CTS-2002</b>	Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	87	<b>CTS-2002</b>	From 6/30/87; Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	86-85	<b>CTS-2002</b>	Oil pan gskt. not incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub
1	Timing Set w/Gaskets	85-81	<b>CTS-2000</b>	VIN Code "G"; Incl. silent type chain
1	Timing Set w/Gaskets	80	<b>CTS-2000</b>	VIN Codes "G" & "W"; Incl. silent type chain
1	Timing Set w/Gaskets	79	<b>CTS-2000</b>	VIN Code "H"; Incl. silent type chain
1	Timing Set w/Gaskets	78-75	<b>CTS-2001</b>	VIN Code "H"; Incl. silent type chain
1	Timing Chain	90	<b>222-163</b>	Double rlr.; 58 Links
1	Timing Chain	87-86	<b>222-163</b>	VIN Code "H"; Double rlr.; 58 Links
1	Timing Chain	85-84	<b>222-358</b>	VIN Code "G"; Silent type; 58 Links
1	Timing Chain	85-84	<b>222-163</b>	VIN Code "H"; Double rlr.; 58 Links
1	Timing Chain	83-75	<b>222-358</b>	w/2 Bbl. Carb.; Silent type; 58 Links
1	Timing Chain	74-69	<b>222-358</b>	Silent type; 58 Links
1	Crank Sprocket	90	<b>223-531</b>	w/rlr. type chain; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	87-86	<b>223-531</b>	VIN Code "H"; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	85-84	<b>223-431</b>	VIN Code "G"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	85-84	<b>223-531</b>	VIN Code "H"; Double row; Use w/Double rlr. chain; 21 Teeth
1	Crank Sprocket	83-81	<b>223-431</b>	VIN Code "G"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	80	<b>223-431</b>	VIN Codes "G" & "W"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	79-75	<b>223-431</b>	VIN Code "H"; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Crank Sprocket	74-69	<b>223-431</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket	90-86	<b>223-612</b>	w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	85	<b>223-612</b>	From 12/10/84; w/rlr. type chain; Double row; .900" thick cam sprocket hub; 42 Teeth
1	Cam Sprocket	85	<b>223-468</b>	To 12/9/84; VIN Code "H"; Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth
1	Cam Sprocket	85-84	<b>223-430</b>	VIN Code "G"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	84	<b>223-468</b>	VIN Code "H"; Double row; .500" thick cam sprocket hub; Use w/Double rlr. chain; 42 Teeth
1	Cam Sprocket	83-81	<b>223-430</b>	VIN Code "G"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	80	<b>223-430</b>	VIN Codes "G" & "W"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	79-75	<b>223-430</b>	VIN Code "H"; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	74-73	<b>223-430</b>	Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	<b>223-430</b>	From change L-7; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket	72	<b>223-406</b>	To change L-7; 42 Teeth
1	Cam Sprocket	71-69	<b>223-406</b>	42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	<b>CS-764</b>	
1	Camshaft	85-84	<b>CS-674</b>	VIN Code "G"
1	Camshaft	85-84	<b>CS-764</b>	VIN Code "H"
1	Camshaft	83-75	<b>CS-674</b>	

**VALVE TRAIN**

**VALVE TRAIN**

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# Ford Truck (Includes Minivans and SUV's)

**37** 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69  
 (cont.) L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" 1980

QTY	CAMSHAFT/LIFTER (cont.)	YEARS	PART NO.	DESCRIPTION
1	Performance Cam	90-69	CS-1581R	351W firing order; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	90-69	CS-1084R	351W firing order; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	90-69	CS-1231R	351W firing order; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4720" Int., .4960" Exh.; Lobe Separation 112 Degrees
16	Lifter	90-75	HT-900 Std Only	Hyd.
16	Lifter	90-75	HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	90-75	HT-900B Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	90-75	HT-900RB Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	90-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	KC-764	Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	90-75	KC-1084R	351W firing order; Hyd.; Incl. Pro-2000 Perf. Cam; Duration at .050: 204 Int., 224 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1084R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	90-75	KC-1231R	351W firing order; Hyd.; Incl. Pro-3000 Perf. Cam; Duration at .050; 214 Int.; 224 Exh.; Valve lift .472" Int., .496" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1231R, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	89-86	KC-764	Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	85-84	KC-674	VIN Code "G"; Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	85-84	KC-764	VIN Code "H"; Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	83-75	KC-674	Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	KCT-764C	Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-88	KCT-764C	VIN Code "H"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-86	KCT-764C	VIN Code "H"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-764C	From 12/10/84; VIN Code "H"; Hyd.; Incl. double rlr. type chain; .900" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	KCT-764	To 12/9/84; VIN Code "H"; Hyd.; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	85-84	KCT-674A	VIN Code "G"; Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	KCT-764	VIN Code "H"; Hyd.; Incl. double rlr. type chain; .500" thick cam sprocket hub; Incl. (1) CS-764, (16) HT-900, (1) KT3-163SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-81	KCT-674A	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	80	KCT-674A	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-75	KCT-674A	Hyd.; Incl. silent type chain; Incl. (1) CS-674, (16) HT-900, (1) KT3-358SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-80	RP-3323R	Chrome-Moly; 8.1820" O.A.L.
16	Push Rod	90-80	RP-3209	8.1820" O.A.L.
16	Push Rod	79	RP-3209	w/Stamped steel rocker arms; 8.1820" O.A.L.
16	Push Rod	79	RP-3323R	Chrome-Moly; 8.1820" O.A.L.
16	Push Rod	78	RP-3209	From Ser. No. BA0002; w/Stamped steel rocker arms; 8.1820" O.A.L.
16	Push Rod	78	RP-3323R	From Ser. No. BA0002; Chrome-Moly; 8.1820" O.A.L.
16	Push Rod	78	RP-3166B	To Ser. No. BA0001; -1/16" shorter length; 8.0920" O.A.L.
16	Push Rod	78	RP-3225R	To Ser. No. BA0001; Chrome-Moly; 8.1440" O.A.L.
16	Push Rod	78	RP-3166	To Ser. No. BA0001; Std. length; 8.1420" O.A.L.
16	Push Rod	77-75	RP-3166B	-1/16" shorter length; 8.0920" O.A.L.
16	Push Rod	77-75	RP-3225R	Chrome-Moly; 8.1440" O.A.L.
16	Push Rod	77-75	RP-3166	Std. length; 8.1420" O.A.L.

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 37**

**L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" (cont.) 1980**

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod, Bulk	90-80	<b>BRP-3209</b>	Carton of 100; 8.1820" O.A.L.
16	Push Rod, Bulk	79	<b>BRP-3209</b>	w/Stamped steel rocker arms; Carton of 100; 8.1820" O.A.L.
16	Push Rod, Bulk	78	<b>BRP-3209</b>	From Ser. No. BA0002; w/Stamped steel rocker arms; Carton of 100; 8.1820" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-79	<b>R-879</b>	Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	<b>R-879</b>	From Ser. No. BA0002; Incl. arm & pivot; Stamped steel; Bolt type mount
16	Arm Assy.	78	<b>R-847</b>	To Ser. No. BA0001; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy.	77-71	<b>R-847</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy., Bulk	90-79	<b>R-879B</b>	Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	78	<b>R-879B</b>	From Ser. No. BA0002; Incl. arm & pivot; Stamped steel; Bolt type mount; Carton of 64
16	Arm Assy., Bulk	78	<b>R-847B</b>	To Ser. No. BA0001; Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm Assy., Bulk	77-71	<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
16	Arm	90-79	<b>R-1091R</b>	Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Arm	78	<b>R-1091R</b>	From Ser. No. BA0002; Speed-Pro Stamped Steel w/rlr. tip; 1.6:1 ratio; Fits bolt type mount
16	Pivot Ball	78-71	<b>MR-1809</b>	
16	Nut	90-71	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Nut	90-71	<b>MR-1823</b>	5/16" x 24
16	Bolt	90-79	<b>MR-1847</b>	5/16" X 18 UNC w/Washer
16	Bolt	78	<b>MR-1847</b>	From Ser. No. BA0001; 5/16" X 18 UNC w/Washer
16	Pivot	90-79	<b>MR-1811</b>	
16	Pivot	78	<b>MR-1811</b>	From Ser. No. BA0002
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-79	<b>V-1961</b> Std-3-15	Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	87-75	<b>V-4551X</b> Std Only	Chrome plated stem; Stellite face; 1.4520" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	78	<b>V-1961</b> Std-3-15	From Ser. No. BA0001; w/Stamped steel rocker arms; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust	78	<b>V-2044</b> Std Only	To Ser. No. BA0000; w/Cast iron rocker arms; Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	77-75	<b>V-2044</b> Std Only	Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust	74-69	<b>V-1893</b> Std-15	Chrome plated stem; 1.5400" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	90-79	<b>V-1961B</b> Std-15	Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	78	<b>V-1961B</b> Std-15	From Ser. No. BA0001; w/Stamped steel rocker arms; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk	74-69	<b>V-1893B15</b> 15	Chrome plated stem; Carton of 25; 1.5400" Head Dia., .3565" Stem Dia., 5.0700" O.A.L.
8	Intake	90-75	<b>V-2045</b> Std-15	Chrome plated stem; 1.7820" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake	74-69	<b>V-3926</b> Std-15	Chrome plated stem; 1.8420" Head Dia., .3420" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	90-75	<b>V-2045B</b> Std-15	Chrome plated stem; Carton of 25; 1.7820" Head Dia., .3419" Stem Dia., 5.0700" O.A.L.
8	Intake, Bulk	74-69	<b>V-3926B15</b> 15	Chrome plated stem; Carton of 25; 1.8410" Head Dia., .3570" Stem Dia., 5.0700" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90-75	<b>VG-5005</b>	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
16	Guide	90-75	<b>VG-5005H</b>	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	90-75	<b>VG-5005T</b>	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	90-75	<b>VG-5005B</b>	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	90-75	<b>VG-5005TB</b>	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# Ford Truck (Includes Minivans and SUV's)

**37 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" 1980

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-86	VS-919	Exh.; VIN Code "H"; 1.9000" Free Height
8	Spring	90-86	VS-918	Int.; 2.0280" Free Height
8	Spring	90-78	VS-661	Int.; Incl. damper; 2.0460" Free Height
8	Spring	85-84	VS-733	Exh.; VIN Code "G"; 1.9230" Free Height
8	Spring	85-84	VS-919	Exh.; VIN Code "H"; 1.9000" Free Height
8	Spring	85-84	VS-718	Int.; VIN Code "G"; 2.0280" Free Height
8	Spring	85-84	VS-918	Int.; VIN Code "H"; 2.0280" Free Height
8	Spring	83-77	VS-733	Exh.; 1.9230" Free Height
8	Spring	83-77	VS-718	Int.; 2.0280" Free Height
16	Spring	76-70	VS-718	Exh. & Int.; 2.0280" Free Height
16	Spring	70	VS-707	Exh. & Int.; To 4/23/70; Incl. damper; 2.0730" Free Height
16	Spring	69	VS-707	Exh. & Int.; Incl. damper; 2.0730" Free Height
8	Spring, Bulk	90-86	VS-919B	Exh.; VIN Code "H"; Carton of 300; 1.9000" Free Height
8	Spring, Bulk	85-84	VS-733B	Exh.; VIN Code "G"; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	85-84	VS-919B	Exh.; VIN Code "H"; Carton of 300; 1.9000" Free Height
8	Spring, Bulk	85-84	VS-718B	Int.; VIN Code "G"; Carton of 250; 2.0280" Free Height
8	Spring, Bulk	83-77	VS-733B	Exh.; Carton of 250; 1.9230" Free Height
8	Spring, Bulk	83-77	VS-718B	Int.; Carton of 250; 2.0280" Free Height
16	Spring, Bulk	76-70	VS-718B	Exh. & Int.; Carton of 250; 2.0280" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-71	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	86-71	MV-1906	Exh. & Int.; Umbrella type; Nylon
16	Valve Stem Seal	79-71	MV-1796C	Exh. & Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	90-71	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	79-71	MV-1796	Exh. & Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-75	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-75	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	90-75	245-1875-6 Std Only	1.8800" OD, 1.6250" ID, .2160" Depth
8	Exh.	74-69	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	74-69	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	74-69	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-71	VK-115	1 groove; Square cut key groove
32	Keeper	90-71	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-71	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-69	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	90-69	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	90-69	259-103ARS	.060"; ID 1.030"; Carton of 500
8	Rotocap	90-75	RC-140	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-77	463P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Cast Piston	90-77	H653CP Std-20-30-40-60	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong; DurOshield® skirt coated piston
8	Cast Piston	90-77	H653P Std-20-30-40-60-80	Hypereutectic; Use w/E-251KC, E-251K or E-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong
8	Cast Piston	76-72	416P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston	71-69	416P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
8	Cast Piston - Individual	90-77	W463P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Cast Piston - Individual	90-77	WH653P Std-20-30-40-60-80	Hypereutectic; Use w/WE-251KC, WE-251K or WE-251X ring set; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9122" Pin Dia., Recessed Head .190" deep oblong
8	Cast Piston - Individual	76-72	W416P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 37**

**L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" (cont.) 1980**

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	71-69	<b>W416P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.720" CD, .9122" Pin Dia., Recessed Head .240" deep - 7.7:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-77	<b>8K463P30</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-77	<b>8X463P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Powerforged	90-77	<b>L-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	90-77	<b>WL-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-75	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-75	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-75	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-75	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-75	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-75	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-75	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	90-75	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	90-75	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-77	<b>5078M</b> Std-1-10-20-30-40	.020" O/S length flange brg. <b>A-Series aluminum bearings</b>
1	Main Set	90-77	<b>7154M10</b> 10-20-30	
1	Main Set	90-77	<b>5078MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	76-69	<b>5107M</b> Std-1-10-20-30-40	
1	Rod Set	90-69	<b>8-3380CPA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	90-69	<b>8-3380A</b> Std-1-10-20-30-40	
1	Rod Set	90-69	<b>8-3380A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set	90-69	<b>8-3380CPA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair	90-69	<b>3380CPA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
8	Rod Pair	90-69	<b>3380A</b> Std-1-10-20-30-40	
1	Cam Set	90-69	<b>1204M</b> Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-75	<b>224-41143</b>	High Volume, check pan for clearance
1	Oil Pump	90-75	<b>224-41143V</b>	
1	Inter. Shaft	90-75	<b>224-61143</b>	O.E. No. E3TZ-6622-G; 5.43" from bottom of screen to top of support bracket
1	Screen Assy.	90-87	<b>224-13143</b>	
1	Screen Assy.	86	<b>224-13143</b>	VIN Code "H"; O.E. No. E3TZ-6622-G; 5.43" from bottom of screen to top of support bracket
1	Screen Assy.	85-84	<b>224-14143</b>	VIN Code "G"; Over 8500 GVW; F150, F200, F250, F300, F350, E150, E250, E300, E350; Calif.; E100 & E250; w/o Calif. Emis.; O.E. No. D5TZ-6622-A; 5.13" from bottom of screen to top of support bracket
1	Screen Assy.	85-84	<b>224-13143</b>	VIN Code "H"; O.E. No. E3TZ-6622-G; 5.43" from bottom of screen to top of support bracket
1	Screen Assy.	83-82	<b>224-14143</b>	E100, E150, E200, E250; Under 8500 GVW; w/o Calif. Emis.; O.E. No. D5TZ-6622-A; 5.13" from bottom of screen to top of support bracket
1	Screen Assy.	83-82	<b>224-13143</b>	E150, F100, F150, F200, F250, F350, E250, E300, E350; Over 8500 GVW & Calif.; O.E. No. E3TZ-6622-G; 5.43" from bottom of screen to top of support bracket
1	Screen Assy.	81	<b>224-14143</b>	E100, E150, E200, E250, E300, E350 & F100, F150, F200, F250, F300, F350; Calif. Emis.; O.E. No. D5TZ-6622-A; 5.13" from bottom of screen to top of support bracket
1	Screen Assy.	81	<b>224-13143</b>	E150, E200, E250, E300, E350 & F150, F200, F250, F350; Calif.; O.E. No. E3TZ-6622-G; 5.43" from bottom of screen to top of support bracket
1	Screen Assy.	80-75	<b>224-14143</b>	O.E. No. D5TZ-6622-A; 5.13" from bottom of screen to top of support bracket

BLOCK

BLOCK

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# Ford Truck (Includes Minivans and SUV's)

**37** 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69  
 (cont.) L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" 1980

BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	90-88	260-1446	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	260-1446	From 5/30/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	260-1170	To 5/29/87; Under 8500 GVW; Valve stem seals not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	86	260-1170	Under 8500 GVW; Valve stem seals from 7/22/86 not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85-84	260-1170	Under 8500 GVW; Premium valve stem seals incl.
	1	Kit Gasket Set	83	260-1170	From 7/11/83; Under 8500 GVW; Premium valve stem seals incl.
	1	Kit Gasket Set	83	260-1126	To 7/10/83; E100, E250 & F Series; Premium valve stem seals incl.
	1	Kit Gasket Set	83	260-1189	To 7/10/83; E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	82-77	260-1126	E100, E250 & F Series; Premium valve stem seals incl.
	1	Kit Gasket Set	82-77	260-1189	E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	76	260-1126	E100, E250 & F Series; Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	76	260-1189	E150, E350; Int. manifold gskt. not incl.; Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	75	260-1126	E100, E250 & F Series; Valve stem seals not incl.; Premium valve stem seals incl.

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-69	381-8015	
1	Steel Block Plug Kit	90-69	381-4010	

KITS	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	
	YEARS	DESCRIPTION			
	90-88	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6116 205-6116M	205-1116 205-1116M
	87	From 5/30/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6116 205-6116M	205-1116 205-1116M
	87	To 5/29/87; Under 8500 GVW; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-761 205-761M	205-261 205-261M
	86	Under 8500 GVW; Valve stem seals from 7/22/86 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-761 205-761M	205-261 205-261M
	85-84	Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-761 205-761M	205-261 205-261M
	83	To 7/10/83; E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-627A 205-627AM	205-127A 205-127AM
	83	From 7/11/83; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-761 205-761M	205-261 205-261M
	83	To 7/10/83; E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-774A 205-774AM	205-274A 205-274AM
	82-77	E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-627A 205-627AM	205-127A 205-127AM
	82-77	E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-774A 205-774AM	205-274A 205-274AM
	76	E100, E250 & F Series; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-627M	205-127M
	76	E100, E250 & F Series; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-627A	205-127A

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# Ford Truck (Includes Minivans and SUV's)

5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 **37**

L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" (cont.) 1980

		<b>RE-RING KIT (cont.)</b>			
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	76	E150, E350; Int. manifold gskt. not incl.; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-774M	205-274M
	76	E150, E350; Int. manifold gskt. not incl.; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-774A	205-274A
	75	E100, E250 & F Series; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-627M	205-127M
	75	E100, E250 & F Series; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-627A	205-127A
	75	E150, E350; Int. manifold gskt. not incl.; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-774M	205-274M
	75	E150, E350; Int. manifold gskt. not incl.; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-774A	205-274A
		<b>OVERHAUL KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6116A MK-6116A	MKP-1116A MK-1116A
	90	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-6116A 505-6116A	----- 505-1116A
	90-88	Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6167	-----
	90-88	Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6167	-----
	89-88	VIN Code "H"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6116A MK-6116A	MKP-1116A MK-1116A
	89-88	VIN Code "H"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-6116A 505-6116A	----- 505-1116A
	87	From 5/30/87; VIN Code "H"; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-6116A MK-6116A	MKP-1116A MK-1116A
	87	From 5/30/87; VIN Code "H"; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-6116A 505-6116A	----- 505-1116A
	87	From 5/30/87; Multi-piece oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6167	-----
	87	From 5/30/87; Multi-piece oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	BK-6167	-----
	87	To 5/29/87; VIN Code "H"; Under 8500 GVW; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
	87	To 5/29/87; VIN Code "H"; Under 8500 GVW; Valve stem seals not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
	86	VIN Code "H"; Under 8500 GVW; Valve stem seals from 7/22/86 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C

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# Ford Truck (Includes Minivans and SUV's)

## 37 5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" 1980

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
86	VIN Code "H"; Under 8500 GVW; Valve stem seals from 7/22/86 not incl.; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
85	From 12/10/84; VIN Code "H"; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Master Master w/o Pistons	MKP-761C MK-761C	MKP-261C MK-261C
85	From 12/10/84; VIN Code "H"; Under 8500 GVW; Premium valve stem seals incl.; Incl. double rlr. type chain; .900" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761C 505-761C	----- 505-261C
85	To 12/9/84; VIN Code "H"; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-761D MK-761D	MKP-261D MK-261D
85	To 12/9/84; VIN Code "H"; Under 8500 GVW; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761D 505-761D	----- 505-261D
85-84	VIN Code "G"; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-761A MK-761A	MKP-261A MK-261A
85-84	VIN Code "G"; Under 8500 GVW; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761A 505-761A	----- 505-261A
84	VIN Code "H"; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Master Master w/o Pistons	MKP-761D MK-761D	MKP-261D MK-261D
84	VIN Code "H"; Under 8500 GVW; Premium valve stem seals incl.; Incl. double rlr. type chain; .500" thick cam sprocket hub	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761D 505-761D	----- 505-261D
83	To 7/10/83; E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
83	To 7/10/83; E100, E250 & F Series; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
83	From 7/11/83; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-761A MK-761A	MKP-261A MK-261A
83	From 7/11/83; Under 8500 GVW; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-761A 505-761A	----- 505-261A
83	To 7/10/83; E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-774C MK-774C	MKP-274C MK-274C
83	To 7/10/83; E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-774C 505-774C	----- 505-274C
82-81	E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
82-81	E100, E250 & F Series; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
82-81	E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-774C MK-774C	MKP-274C MK-274C
82-81	E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-774C 505-774C	----- 505-274C
80	E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-627C MK-627C	MKP-127C MK-127C
80	E100, E250 & F Series; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-627C 505-627C	----- 505-127C
80	E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	MKP-774C MK-774C	MKP-274C MK-274C

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 351 OHV V8 (Windsor), 4" Bore 1990-69 37**

**L/D Truck VIN Codes "G" 1980-85, "H" 1969-79 & 1984-98, "M" 1969-71, "R" 1993-96 (Lightning), "W" (cont.) 1980**

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>			
	80	E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-774C</b> <b>505-774C</b>	----- <b>505-274C</b>
	79-77	E100, E250 & F Series; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-627C</b> <b>MK-627C</b>	<b>MKP-127C</b> <b>MK-127C</b>
	79-77	E100, E250 & F Series; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-627C</b> <b>505-627C</b>	----- <b>505-127C</b>
	79-77	E150, E350; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-774C</b> <b>MK-774C</b>	<b>MKP-274C</b> <b>MK-274C</b>
	79-77	E150, E350; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-774C</b> <b>505-774C</b>	----- <b>505-274C</b>
	76	E100, E250 & F Series; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-627A</b> <b>MK-627A</b>	<b>MKP-127A</b> <b>MK-127A</b>
	76	E100, E250 & F Series; Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-627A</b>	<b>505-127A</b>
	76	E150, E350; Int. manifold gskt. not incl.; Valve stem seals to 12/1/75 not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-774A</b> <b>MK-774A</b>	<b>MKP-274A</b> <b>MK-274A</b>
	76	E150, E350; Int. manifold gskt. not incl.; Valve stem seals to 12/1/75 not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-774A</b>	<b>505-274A</b>
	75	E100, E250 & F Series; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-627A</b> <b>MK-627A</b>	<b>MKP-127A</b> <b>MK-127A</b>
	75	E100, E250 & F Series; Valve stem seals not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-627A</b>	<b>505-127A</b>
	75	E150, E350; Int. manifold gskt. not incl.; Valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-774A</b> <b>MK-774A</b>	<b>MKP-274A</b> <b>MK-274A</b>
	75	E150, E350; Int. manifold gskt. not incl.; Valve stem seals not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-774A</b>	<b>505-274A</b>

**5.8L 352 OHV V8, 4" Bore 1967-57 38**

**L/D Truck VIN Codes "D" 1965-67, "H" 1957-60, "X" 1960, "Y" 1960**

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
V A L V E  T R A I N	1	3 Piece Set	67-65	<b>KT3-494SA1</b>	Incl. (1) 222-494, (1) 223-321, (1) 223-396
	1	Timing Chain	67-65	<b>222-494</b>	48 Links
	1	Crank Sprocket	67-65	<b>223-321</b>	18 Teeth
	1	Cam Sprocket	67-65	<b>223-396</b>	Installation doesn't require spacer on cam nose. Older type Eng. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	67	<b>CS-643</b>	From Ser. No. A84001
	1	Camshaft	67	<b>CS-443</b>	To Ser. No. A84000; Hyd.
	1	Camshaft	66-65	<b>CS-443</b>	Hyd.
	16	Lifter	67-65	<b>HT-2083</b> Std Only	Hyd.
	16	Lifter, Bulk	67-65	<b>HT-2083B</b> Std Only	Hyd.; Carton of 122
	1	Prelube	67-65	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	67	<b>KC-643</b>	From Ser. No. A84001; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B
	1	Cam/Lifter Kit	67	<b>KC-443</b>	To Ser. No. A84000; Hyd.; Incl. (1) CS-443, (16) HT-2083, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-443</b>	Hyd.; Incl. (1) CS-443, (16) HT-2083, (1) 55-403B	
1	Cam/Lifter/Timing Kit	67	<b>KCT-643</b>	From Ser. No. A84001; Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B	
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Push Rod	67-65	<b>RP-3227R</b>	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.	

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**38 5.8L 352 OHV V8, 4" Bore 1967-57**  
 (cont.) L/D Truck VIN Codes "D" 1965-67, "H" 1957-60, "X" 1960, "Y" 1960

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67-65	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.
16	Push Rod	67-65	RP-3172	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	67-65	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	67-65	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod, Bulk	67-65	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	67-65	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	67-65	R-814	w/Hyd. lifters
2	Rocker Shaft	67-65	RS-621	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-65	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	67-65	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	67-65	V-1539 Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	67-65	V-1539B15 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	67	VS-1428	From Ser. No. A84001; 2.3430" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-65	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	67-65	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	67-65	MV-1775C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	67-65	MV-1775	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	67-65	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	67-65	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-65	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	67-65	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Int.	67-65	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-65	VK-138	1 groove; Square cut key groove
32	Keeper	67-65	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-65	VK-138B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	66-58	246NP Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual	66-58	W246NP Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.816" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs - 9.0:1 C.R.
8	Pin Bushing	67-65	2304V	Split type bushing
8	Pin Bushing	67-65	2304V20	Split type bushing; w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	67-65	E-248K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16
1	Standard Set	67-65	E-248X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
8	Premium Single Cylinder Set	67-65	WE-248K Std-30	1-5/64, 1-3/32, 1-3/16
8	Standard Single Cylinder Set	67-65	WE-248X Std-30-40	1-5/64, 1-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	67-65	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
1	Repair Sleeve	67-65	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-65	4261M Std-1-10-20-30-40-50-60	3.824" max. flange OD
1	Main Set	59-58	4020M Std-10	3.684" max. flange OD
1	Rod Set	67-65	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	67-65	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	59-58	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	59-58	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	67-65	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
1	Rod Set	59-58	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.

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# Ford Truck (Includes Minivans and SUV's)

**5.8L 352 OHV V8, 4" Bore 1967-57 38**

L/D Truck VIN Codes "D" 1965-67, "H" 1957-60, "X" 1960, "Y" 1960 (cont.)

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Rod Pair	67-65	<b>3230CP</b> Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Engs.
	8	Rod Pair	59-58	<b>3230CP</b> Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Engs.
	1	Cam Set	67-65	<b>1445M</b> Std Only	
	1	Cam Set	59-58	<b>1445M</b> Std Only	
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	67-65	<b>224-41173</b>	
	1	Oil Pump	67-65	<b>224-43365A</b>	High Pressure
	1	Oil Pump	67-65	<b>224-41177</b>	High Volume, check pan for clearance
	1	Inter. Shaft	67-65	<b>224-61114</b>	
	1	Screen Assy.	67	<b>224-14158</b>	
	1	Screen Assy.	67	<b>224-14252</b>	4WD
	1	Screen Assy.	66-65	<b>224-14159</b>	RWD
	1	Screen Assy.	66-65	<b>224-14252</b>	4WD
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	67-65	<b>260-1035</b>	Exh. pipe flange not incl.; Exh. heat shields not incl.
	1	Kit Gasket Set	59-57	<b>260-1035</b>	Exh. pipe flange not incl.
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	67-65	<b>381-8017</b>	
	1	Brass Block Plug Kit	59-58	<b>381-8017</b>	
	1	Steel Block Plug Kit	67-65	<b>381-4015</b>	
	1	Steel Block Plug Kit	59-58	<b>381-4015</b>	
<b>RE-RING KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
	67-65	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.	Re-ring		<b>205-890</b>
					<b>ECONOMY KIT NO.</b>
					<b>205-390</b>

**5.9L 360 OHV V8, 4.05" Bore 1977-68 39**

L/D Truck VIN Codes "H" 1975-76, "Y" 1968-77

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	76-74	<b>KT3-494SA3</b>	Incl. (1) 222-494, (1) 223-321, (1) 223-448
	1	3 Piece Set	73-68	<b>KT3-494SA1</b>	Incl. (1) 222-494, (1) 223-321, (1) 223-396
	1	Timing Chain	76-68	<b>222-494</b>	48 Links
	1	Crank Sprocket	76-68	<b>223-321</b>	18 Teeth
	1	Cam Sprocket	76-74	<b>223-448</b>	36 Teeth
	1	Cam Sprocket	73-68	<b>223-396</b>	Installation doesn't require spacer on cam nose. Older type Engs. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	76-68	<b>CS-643</b>	
	16	Lifter	76-68	<b>HT-2083</b> Std Only	Hyd.
	16	Lifter, Bulk	76-68	<b>HT-2083B</b> Std Only	Hyd.; Carton of 122
	1	Prelube	76-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
	1	Cam/Lifter Kit	76-68	<b>KC-643</b>	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B
	1	Cam/Lifter/Timing Kit	76-74	<b>KCT-643A</b>	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA3, (1) 55-403B
	1	Cam/Lifter/Timing Kit	73-68	<b>KCT-643</b>	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod	76-68	<b>RP-3227R</b>	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.
	16	Push Rod	76-68	<b>RP-3172B</b>	Ball & ball type ends; 9.5600" O.A.L.
	16	Push Rod	76-68	<b>RP-3172</b>	Ball & ball type ends; 9.6210" O.A.L.
	16	Push Rod	76-68	<b>RP-3172A</b>	Ball & ball type ends; 9.6800" O.A.L.
	16	Push Rod	76-68	<b>RP-3172C</b>	9.59" O.A.L.; 9.5910" O.A.L.
	16	Push Rod, Bulk	76-68	<b>BRP-3172B</b>	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
	16	Push Rod, Bulk	76-68	<b>BRP-3172</b>	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	16	Arm	76-68	<b>R-814</b>	Non-Adj.
	2	Rocker Shaft	76-68	<b>RS-621</b>	
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	76-68	<b>V-1853</b> Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
	8	Exhaust, Bulk	76-68	<b>V-1853B</b> Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
	8	Intake	76-68	<b>V-1539</b> Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.

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# Ford Truck (Includes Minivans and SUV's)

**39** 5.9L 360 OHV V8, 4.05" Bore 1977-68  
 (cont.) L/D Truck VIN Codes "H" 1975-76, "Y" 1968-77

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	76-68	V-1539B15 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	76-68	VG-5007	.3725" ID, 2.3800" O.A.L.
16	Guide	76-68	VG-5007T	Threaded; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	76-68	VG-5007B	Carton of 50; .3725" ID, 2.3800" O.A.L.
16	Guide, Bulk	76-68	VG-5007TB	Threaded; .3725" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	76	VS-682	Int.; Incl. damper; 2.1200" Free Height
16	Spring	75-68	VS-682	Exh. & Int.; Incl. damper; 2.1200" Free Height
8	Spring, Bulk	76	VS-682B	Int.; Incl. damper; Carton of 200; 2.1200" Free Height
16	Spring, Bulk	75-68	VS-682B	Exh. & Int.; Incl. damper; Carton of 200; 2.1200" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-68	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	76-68	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	76-68	MV-1775C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	76-68	MV-1775	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	76-68	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	76-68	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-68	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	76-68	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	76-68	245-1687-3 Std Only	1.6925" OD, 1.4375" ID, .2480" Depth
8	Int.	76-68	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-68	VK-138	1 groove; Square cut key groove
32	Keeper	76-68	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-68	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-68	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	76-68	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-68	H395P Std-20-30-40-60	Hypereutectic; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.759" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	76-68	WH395P Std-20-30-40-60	Hypereutectic; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.759" CD, .9751" Pin Dia., Flat Head w/4 valve reliefs
8	Pin Bushing	76-68	2304V	Split type bushing
8	Pin Bushing	76-68	2304V20	Split type bushing; w/.020" extra bore stock
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	76-68	E-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
1	Premium Set	76-68	E-260K Std Only	2-5/64, 1-3/16; Check piston grooving before using
1	Standard Set	76-68	E-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Premium Single Cylinder Set	76-68	WE-180K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
8	Standard Single Cylinder Set	76-68	WE-180X Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	76-68	SL-197M Std Only	3/32" wall, cut to length; Press fit sleeve
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	76-68	4261M Std-1-10-20-30-40-50-60	3.824" max. flange OD
1	Rod Set	76-68	8-3230CP Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	76-68	8-3230CP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	76-68	8-3230CA60 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
8	Rod Pair	76-68	3230CP Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.
1	Cam Set	76-68	1445M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	76-68	224-41173	High Pressure
1	Oil Pump	76-68	224-43365A	High Volume, check pan for clearance
1	Oil Pump	76-68	224-41177	High Volume, check pan for clearance

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## Ford Truck (Includes Minivans and SUV's)

5.9L 360 OHV V8, 4.05" Bore 1977-68 <b>39</b>						
L/D Truck VIN Codes "H" 1975-76, "Y" 1968-77 (cont.)						
<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Inter. Shaft	76-68	224-61114		
	1	Screen Assy.	76-68	224-14159	RWD	
	1	Screen Assy.	76-68	224-14252	4WD	
<b>B L O C K</b>	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	77-68	260-1035	Exh. pipe flange not incl.; Exh. heat shields not incl.	
<b>B L O C K</b>	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	77-68	381-8017		
	1	Steel Block Plug Kit	77-68	381-4015		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	76-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set	Re-ring		205-601	205-101
	76-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains		205-601M	205-101M
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	76-74	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons		MK-601M	MK-101M
	76-74	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master		MKP-601P	MKP-101P
	73-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons		MK-601C	MK-101C
	73-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master		MKP-601N	MKP-101N
5.9L 361 OHV V8, 4.05" Bore 1966-64 <b>40</b>						
L/D Truck						
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	66-64	381-8017			
1	Steel Block Plug Kit	66-64	381-4015			
6.4L 390 OHV V8, 4.05" Bore 1977-67 <b>41</b>						
L/D Truck VIN Codes "H" 1967-77, "M" 1974-77, "S" 1968-69 (GT), "Y" 1967-69						
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	3 Piece Set	76-74	KT3-494SA3	Incl. (1) 222-494, (1) 223-321, (1) 223-448	
	1	3 Piece Set	73-68	KT3-494SA1	Incl. (1) 222-494, (1) 223-321, (1) 223-396	
	1	Timing Chain	76-68	222-494	48 Links	
	1	Crank Sprocket	76-68	223-321	18 Teeth	
	1	Cam Sprocket	76-74	223-448	36 Teeth	
	1	Cam Sprocket	73-68	223-396	Installation doesn't require spacer on cam nose. Older type Engs. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	76-68	CS-643		
	16	Lifter	76-68	HT-2083	Std Only Hyd.	
	16	Lifter, Bulk	76-68	HT-2083B	Std Only Hyd.; Carton of 122	
	1	Prelube	76-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Cam/Lifter Kit	76-68	KC-643	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) 55-403B		
1	Cam/Lifter/Timing Kit	76-74	KCT-643A	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA3, (1) 55-403B		
1	Cam/Lifter/Timing Kit	73-68	KCT-643	Hyd.; Incl. (1) CS-643, (16) HT-2083, (1) KT3-494SA1, (1) 55-403B		
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Push Rod	76-68	RP-3227R	Ball & ball type ends; Chrome-Moly; 9.5950" O.A.L.		
16	Push Rod	76-68	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.		

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**41 6.4L 390 OHV V8, 4.05" Bore 1977-67**  
 (cont.) L/D Truck VIN Codes "H" 1967-77, "M" 1974-77, "S" 1968-69 (GT), "Y" 1967-69

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod	76-68	RP-3172	Ball & ball type ends; 9.6210" O.A.L.
16	Push Rod	76-68	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.
16	Push Rod	76-68	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.
16	Push Rod, Bulk	76-68	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.
16	Push Rod, Bulk	76-68	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	76-68	R-814	Non-Adj.
2	Rocker Shaft	76-68	RS-621	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	76-68	V-1853 Std-15	Chrome plated stem; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Exhaust, Bulk	76-68	V-1853B Std-15	Chrome plated stem; Carton of 25; 1.5580" Head Dia., .3715" Stem Dia., 5.4360" O.A.L.
8	Intake	76-73	V-1809 Std-3	Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	72	V-1809 Std-3	From Ser. No. T4001; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	72	V-1809 Std-3	Optional-H/D; To Ser. No. T4000; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	72	V-1539 Std-15	To Ser. No. T4000; 2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake	71-68	V-1809 Std-3	Optional-H/D; Chrome plated stem; 2.0300" Head Dia., .3716" Stem Dia., 5.4440" O.A.L.
8	Intake	71-68	V-1539 Std-15	2.0270" Head Dia., .3716" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	72	V-1539B15 15	To Ser. No. T4000; Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
8	Intake, Bulk	71-68	V-1539B15 15	Carton of 50; 2.0270" Head Dia., .3866" Stem Dia., 5.4460" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	76	VS-682	Exh. & Int.; F250, F350; Incl. damper; 2.1200" Free Height
8	Spring	76	VS-682	Int.; F100; Incl. damper; 2.1200" Free Height
16	Spring	75-68	VS-682	Exh. & Int.; Incl. damper; 2.1200" Free Height
16	Spring, Bulk	76	VS-682B	Exh. & Int.; F250, F350; Incl. damper; Carton of 200; 2.1200" Free Height
8	Spring, Bulk	76	VS-682B	Int.; F100; Incl. damper; Carton of 200; 2.1200" Free Height
16	Spring, Bulk	75-68	VS-682B	Exh. & Int.; Incl. damper; Carton of 200; 2.1200" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-68	ST-2014	Use w/repair guide; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	76-68	ST-2002	Use w/O.E. guide; Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal	76-68	MV-1775C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	76-68	MV-1775	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	76-68	ST-2014BC	Use w/repair guide; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	76-68	ST-2002BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-68	245-1687-1N Std Only	Premium Material; 1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	76-68	245-1687-1 Std Only	1.6925" OD, 1.4060" ID, .2480" Depth
8	Exh.	76-68	245-1687-3 Std Only	1.6925" OD, 1.4375" ID, .2480" Depth
8	Int.	76-68	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-68	VK-138	1 groove; Square cut key groove
32	Keeper	76-68	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-68	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-68	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	76-68	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	76-68	259-103ARS	.060"; ID 1.030"; Carton of 500
8	Rotocap Assy.	72-68	RC-141A	
8	Rotocap	76-68	RC-141	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-68	381P + Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use 381NP

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# Ford Truck (Includes Minivans and SUV's)

**6.4L 390 OHV V8, 4.05" Bore 1977-67 41**

L/D Truck VIN Codes "H" 1967-77, "M" 1974-77, "S" 1968-69 (GT), "Y" 1967-69 (cont.)

	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION		
BLOCK	8	Cast Piston	76-68	<b>381NP</b> Std-20-30-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets		
	8	Cast Piston - Individual	76-68	<b>W381P +</b> Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9751" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve reliefs - 8.2:1 C.R.; When depleted use W381NP		
	8	Cast Piston - Individual	76-68	<b>W381NP *</b> Std-40-60	Cast; 1-5/64", 1-3/32", 1-3/16" Ring Groove, 1.660" CD, .9753" Pin Dia., Recessed Head .097" deep x 2.620" dia. w/4 valve pockets		
	8	Pin	76-68	<b>P-2217</b> Std Only			
	8	Pin Bushing	76-67	<b>2304V</b>	Split type bushing		
	8	Pin Bushing	76-67	<b>2304V20</b>	Split type bushing; w/.020" extra bore stock		
		<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	76-68	<b>E-180K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using		
	1	Standard Set	76-68	<b>E-180X</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using		
	8	Premium Single Cylinder Set	76-68	<b>WE-180K</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using		
8	Standard Single Cylinder Set	76-68	<b>WE-180X</b> Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16; Check piston grooving before using			
	<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Repair Sleeve	76-68	<b>SL-197M</b> Std Only	3/32" wall, cut to length; Press fit sleeve			
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	76-67	<b>4261M</b> Std-1-10-20-30-40-50-60	3.824" max. flange OD			
1	Rod Set	76-67	<b>8-3230CP</b> Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Engs.; 8-3230CA 60 avail. as unplated & resizeable			
1	Rod Set	76-67	<b>8-3230CP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Engs.			
1	Rod Set	76-67	<b>8-3230CA60</b> 60	Unplated & resizeable; Squirt hole removed from all Ford V Engs.			
8	Rod Pair	76-67	<b>3230CP</b> Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Engs.			
1	Cam Set	76-67	<b>1445M</b> Std Only				
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	76-68	<b>224-41173</b>				
1	Oil Pump	76-68	<b>224-43365A</b>	High Pressure			
1	Oil Pump	76-68	<b>224-41177</b>	High Volume, check pan for clearance			
1	Inter. Shaft	76-68	<b>224-61114</b>				
1	Screen Assy.	76-68	<b>224-14159</b>				
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	77-67	<b>260-1035</b>	Exh. pipe flange not incl.; Exh. heat shields not incl.			
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	77-67	<b>381-8017</b>				
1	Steel Block Plug Kit	76-67	<b>381-4015</b>				
KITS	<b>RE-RING KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	76-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set	Re-ring		<b>205-601</b>	<b>205-101</b>	
	76-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Re-ring w/Mains		<b>205-601M</b>	<b>205-101M</b>	
	<b>OVERHAUL KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	76-74	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master		<b>MKP-601M</b>	<b>MKP-101M</b>	
	76-74	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons		<b>MK-601M</b>	<b>MK-101M</b>	
73-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; Incl. High Volume oil pump, check pan for clearance; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	Master w/o Pistons		<b>MK-601C</b>	<b>MK-101C</b>		
73-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Engs.; w/3.824" max. brg. flange OD	Master		<b>MKP-601F</b>	<b>MKP-101F</b>		

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# Ford Truck (Includes Minivans and SUV's)

**41 6.4L 390 OHV V8, 4.05" Bore 1977-67**  
 (cont.) L/D Truck VIN Codes "H" 1967-77, "M" 1974-77, "S" 1968-69 (GT), "Y" 1967-69

OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		
73-68	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng's.; Check piston grooving before using ring set; w/3.824" max. brg. flange OD	MK-601F	MK-101F
	Master w/o Pistons		

**42 6.6L 400 OHV V8, 4" Bore 1982-72**  
 L/D Truck VIN Codes "S" 1972-80, "Z" 1980-82

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	82-77	KT3-494SA2	Incl. (1) 222-494, (1) 223-420A, (1) 223-493
1	3 Piece Set	76-73	KT3-498SA2	Incl. (1) KT3-498SA2
1	3 Piece Set	72	KT3-494SA2	Incl. (1) 222-494, (1) 223-420A, (1) 223-493
1	Timing Chain	82-77	222-494	48 Links
1	Timing Chain	76-72	222-498	48 Links
1	Timing Chain	72	222-494	48 Links
1	Crank Sprocket	82-77	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Crank Sprocket	76-72	223-475	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-475; 18 Teeth
1	Crank Sprocket	72	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	82-77	223-420A	36 Teeth
1	Cam Sprocket	72	223-420A	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-72	CS-667	
16	Lifter	82-72	HT-900 Std Only	Hyd.
16	Lifter, Bulk	82-72	HT-900B Std Only	Hyd.; Carton of 122
1	Prelube	82-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-77	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	76-73	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	72	KC-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-77	KCT-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-73	KCT-667A	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-498SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-667	Hyd.; Incl. (1) CS-667, (16) HT-900, (1) KT3-494SA2, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-77	RP-3186	9.5000" O.A.L.
16	Push Rod, Bulk	82-77	BRP-3186	Carton of 100; 9.5000" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	82-77	R-855	Incl. arm & pivot
16	Arm Assy., Bulk	82-77	R-855B	Incl. arm & pivot; Carton of 64
16	Arm	82-77	R-855A	
16	Bolt	82-77	MR-1951	5/16" X 18 UNC w/o washer
16	Pivot	82-77	MR-1811	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	82-78	V-2095 Std-15	Chrome plated stem; 1.6560" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust	77-72	V-2030 Std-15	4 groove; Chrome plated stem; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	82-78	V-2095B15 15	1 groove; Chrome plated stem; Carton of 25; 1.6545" Head Dia., .3564" Stem Dia., 5.0500" O.A.L.
8	Exhaust, Bulk	77-72	V-2030B Std-15	4 groove; Chrome plated stem; Carton of 25; 1.6550" Head Dia., .3414" Stem Dia., 5.0500" O.A.L.
8	Intake	82-80	V-2142 Std-15	1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	79	V-2142 Std-15	From Ser. No. CG0001; 1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	78	V-2142 Std-15	From Ser. No. CG0001; 1 groove; Chrome plated stem; 2.0400" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	78	V-2075 Std-15	To Ser. No. CG0000; 4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake	77-72	V-2075 Std-15	4 groove; Chrome plated stem; 2.0410" Head Dia., .3420" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	82-80	V-2142B15 15	1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.

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# Ford Truck (Includes Minivans and SUV's)

**6.6L 400 OHV V8, 4" Bore 1982-72 42**

**L/D Truck VIN Codes "S" 1972-80, "Z" 1980-82 (cont.)**

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	79	<b>V-2142B15</b> 15	From Ser. No. CG0001; 1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	78	<b>V-2142B15</b> 15	From Ser. No. CG0001; 1 groove; Chrome plated stem; Carton of 25; 2.0400" Head Dia., .3570" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	78	<b>V-2075B</b> Std-15	To Ser. No. CG0000; 4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
8	Intake, Bulk	77-72	<b>V-2075B</b> Std-15	4 groove; Chrome plated stem; Carton of 50; 2.0410" Head Dia., .3419" Stem Dia., 5.2310" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	82-72	<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
16	Guide	82-72	<b>VG-5005H</b>	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide	82-72	<b>VG-5005T</b>	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-72	<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk	82-72	<b>VG-5005TB</b>	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	82-78	<b>VS-1435</b>	Exh.; 1.9650" Free Height
8	Spring	82-78	<b>VS-703</b>	Int.; 2.0560" Free Height
8	Spring	82-72	<b>VS-661</b>	Int.; Incl. damper; 2.0460" Free Height
16	Spring	77-72	<b>VS-703</b>	2.0560" Free Height
8	Spring, Bulk	82-78	<b>VS-1435B</b>	Exh.; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	82-78	<b>VS-703B</b>	Int.; Carton of 250; 2.0560" Free Height
16	Spring, Bulk	77-72	<b>VS-703B</b>	Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	82-77	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	82-77	<b>MV-1817C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	82-77	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	82-77	<b>MV-1817</b>	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	82-72	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	82-72	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	82-72	<b>245-2125-2</b> Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	82-77	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	82-77	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper	82-77	<b>VK-205</b>	4 groove
32	Keeper	82-77	<b>VK-205R</b>	4 groove; Hardened
32	Keeper, Bulk	82-77	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	82-72	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	82-72	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	82-72	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	82-72	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	82-72	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	82-72	<b>427P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Cast Piston - Individual	82-72	<b>W427P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
1	Cast Piston Set w/Prem. Rings	82-72	<b>8K427P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	82-72	<b>8X427P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.630" CD, .9751" Pin Dia., Recessed Head .145" deep x 3.000" dia. w/2 valve reliefs - 7.9:1 C.R.
8	Pin	82-77	<b>P-2217</b> Std Only	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	82-77	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	82-77	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	82-77	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	82-77	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	82-77	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	82-77	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	82-77	<b>5078M</b> Std-1-10-20-30-40	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**42 6.6L 400 OHV V8, 4" Bore 1982-72**  
 (cont.) L/D Truck VIN Codes "S" 1972-80, "Z" 1980-82

BLOCK	ENGINE BEARINGS					BLOCK
	QTY	(cont.)	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	82-77	7154M10 10-20-30	.020" O/S length flange brg.	
	1	Main Set	82-77	5078MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
	1	Rod Set	82-77	8-3400CP Std-1-10-20-30-40		
	1	Rod Set	82-77	8-3400CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore	
	8	Rod Pair	82-77	3400CP Std-1-10-20-30-40		
	1	Cam Set	82-77	1403M Std Only	Babbitt material; Full round design	
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	82-77	224-41166		
1	Oil Pump	82-77	224-41166V	High Volume, check pan for clearance		
1	Pump Repair Kit	82-77	224-51139			
1	Inter. Shaft	82-77	224-61166			
1	Screen Assy.	82-80	224-12166			
1	Screen Assy.	79-77	224-11166	F100, F150, F200, F250, F350; RWD		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	82-72	260-1014	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	82-75	260-4004			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	82-80	381-8016			
1	Brass Block Plug Kit	79-77	381-8016			
1	Brass Block Plug Kit	72	381-8016			
1	Steel Block Plug Kit	82-80	381-4018			
1	Steel Block Plug Kit	79-77	381-4018			
1	Steel Block Plug Kit	72	381-4018			
KITS	RE-RING KIT					KITS
	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	
	82-77	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	205-624	205-124	
	82-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-624AM	205-124AM	
	OVERHAUL KIT					
	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	
	82-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons	MK-624J	MK-124J	
	82-77	Int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master	MKP-624P	MKP-124P	
	82-77	Int. manifold gskts. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-624P	505-124P	

**43 6.9L 420 OHV Diesel V8 (IDI), 4" Bore (International Eng.) 1987-83**  
 L/D Truck VIN Code "1" 1983-87

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Gear Set	87-83	221-3342S	Incl. (1) 221-3342S	
	1	Cam Gear	87-83	221-3342	106 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	87-83	CS-771		
	16	Lifter	87-83	HT-2104 Std Only	Hyd. rlr.	
	16	Lifter, Bulk	87-83	HT-2104B Std Only	Hyd. rlr.; Carton of 113	
	1	Prelube	87-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	87-83	KC-771	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 55-403B	
1	Cam/Lifter/Timing Kit	87-83	KCT-771	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 221-3342S, (1) 55-403B		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
16	Push Rod	87-83	RP-3237	Install w/copper colored ball toward rocker arm; 9.9890" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Arm Assy.	87-83	R-1119	Incl. 2-arms, 2-pivots & 1-retainer		
8	Arm	87-83	R-949	Incl. 1-rocker arm		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	87-83	V-2302 Std Only	Chrome plated stem; 1.5950" Head Dia., .3719" Stem Dia., 5.6700" O.A.L.		
8	Intake	87-83	V-2303 Std Only	Chrome plated stem; 1.8770" Head Dia., .3719" Stem Dia., 5.6880" O.A.L.		

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# Ford Truck (Includes Minivans and SUV's)

6.9L 420 OHV Diesel V8 (IDI), 4" Bore (International Eng.) 1987-83 **43**  
L/D Truck VIN Code "1" 1983-87 (cont.)

VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Guide	87-83	<b>VG-804</b>	Repair Guide; .3750" ID, 2.6000" O.A.L.	
	8	VALVE SPRING Spring	87-83	<b>VS-693</b>	Incl. damper; 2.0500" Free Height	
	16	VALVE SEAL Valve Stem Seal	87-83	<b>MV-1796C</b>	Umbrella type; Fits Std. to .015" O/S valve stem; Rubber	
	16	Valve Stem Seal Bulk	87-83	<b>MV-1796</b>	Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber	
	8	VALVE SEAT Int.	87-85	<b>245-1937-1</b> Std Only	Cannot be used in early year A & B castings because of thin castings; 1.9425" OD, 1.6875" ID, .2480" Depth	
	8	Exh.	87-83	<b>245-1669-1</b> Std Only	1.6690" OD, 1.3700" ID, .2710" Depth	
	32	VALVE, MISC Keeper	87-83	<b>VK-138</b>	1 groove; Square cut key groove	
	32	Keeper	87-83	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	87-83	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000	
BLOCK	8	PISTON Cast Piston	87-85	<b>2770PN</b> Std-20-40	Cast; Destroyed version of 2652PN; 2-5/64", 1-7/64" Ring Groove, 1.935" CD, 1.1100" Pin Dia., Ricardo Cup; Same as 2652PN Exc. De-Stroked .010"	BLOCK
	8	Cast Piston	87-85	<b>H729CP</b> Std-20-30	Hypereutectic; 2-5/64", 1-7/64" Ring Groove, 1.937" CD, 1.1100" Pin Dia., Ricardo Cup Head; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston	84	<b>2770PN</b> Std-20-40	From 10/3/83; From Ser. No. 59209; Cast; Destroyed version of 2652PN; 2-5/64", 1-7/64" Ring Groove, 1.935" CD, 1.1100" Pin Dia., Ricardo Cup; Same as 2652PN Exc. De-Stroked .010"	
	8	Cast Piston	84	<b>H729CP</b> Std-20-30	From 10/3/83; From Ser. No. 59209; Hypereutectic; 2-5/64", 1-7/64" Ring Groove, 1.937" CD, 1.1100" Pin Dia., Ricardo Cup Head; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston - Individual	87-85	<b>WH729CP</b> Std-20-30-40	Hypereutectic; 2-5/64", 1-7/64" Ring Groove, 1.937" CD, 1.1100" Pin Dia., Ricardo Cup Head; <b>DurOshield® skirt coated piston</b>	
	8	Cast Piston - Individual	84	<b>WH729CP</b> Std-20-30-40	From 10/3/83; From Ser. No. 59209; Hypereutectic; 2-5/64", 1-7/64" Ring Groove, 1.937" CD, 1.1100" Pin Dia., Ricardo Cup Head; <b>DurOshield® skirt coated piston</b>	
	8	Pin Bushing	87-83	<b>3814Y20</b>		
	1	RINGS Premium Set	87-84	<b>E-447K</b> Std-20-30-40	Check piston grooving before supplying ring set; 2-5/64, 1-7/64; 2nd ring gap is .060-.075" like O.E. ring	
	1	Premium Set	83	<b>E-447K</b> Std-20-30-40	From Ser. No. 59209; Check piston grooving before supplying ring set; 2-5/64, 1-7/64; 2nd ring gap is .060-.075" like O.E. ring	
	8	Premium Single Cylinder Set	87-84	<b>WE-447K</b> Std-20-30-40	Check piston grooving before supplying ring set; 2-5/64, 1-7/64; 2nd ring gap is .060-.075" like O.E. ring	
	8	Premium Single Cylinder Set	83	<b>WE-447K</b> Std-20-30-40	From Ser. No. 59209; Check piston grooving before supplying ring set; 2-5/64, 1-7/64; 2nd ring gap is .060-.075" like O.E. ring	
	1	ENGINE BEARINGS Main Set	87-83	<b>5110M</b> Std-1-2-10-20-30		
	1	Main Set	87-83	<b>7219M10</b> 10-20-30	w/.010" O/S length flange brg.	
	1	Rod Set	87-83	<b>8-3810CP</b> Std-10-20-30-40		
8	Rod Pair	87-83	<b>3810CP</b> Std-1-10-20-30-40			
1	Cam Set	87-83	<b>1467M</b> Std Only			
1	OIL PUMP Oil Pump	87-83	<b>224-41999</b>			
1	GASKETS Kit Gasket Set	87-83	<b>260-1672</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	87-83	<b>260-4029</b>			
1	FREEZE PLUGS Brass Block Plug Kit	87-83	<b>381-8056</b>	Incl. 7 centerless ground OD, stainless steel block plugs		
	<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>	
	YEARS	DESCRIPTION		<b>KIT NO.</b>	<b>KIT NO.</b>	
	87-83	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; 2nd ring gap is .060-.075" like O.E. ring	Re-ring	<b>205-6004</b>	----	
			Re-ring w/Mains	<b>205-6004M</b>	----	

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# Ford Truck (Includes Minivans and SUV's)

## 43 6.9L 420 OHV Diesel V8 (IDI), 4" Bore (International Eng.) 1987-83

(cont.) L/D Truck VIN Code "1" 1983-87

K I T S	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	87-85	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6004A MK-6004A 505-6004A	----- ----- -----	
	84	From 10/3/83; From Ser. No. 59209; Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master Master w/o Rods & Mains	MKP-6004A 505-6004A	----- -----	
	84	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master w/o Pistons	MK-6004A	-----	
	83	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master w/o Pistons	MK-6004A	-----	

## 44 7.0L 428 OHV V8, 4.13" Bore 1969-68

L/D Truck VIN Codes "Q" 1968-69, "R" 1968-69 (Cobra Jet & Super Cobra Jet)

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	3 Piece Set	69	KT3-494SA1	
	1	Timing Chain	69	222-494	48 Links	
	1	Crank Sprocket	69	223-321	18 Teeth	
	1	Cam Sprocket	69	223-396	Installation doesn't require spacer on cam nose. Older type Engs. used spacer to fit on cam nose through the ID of thrust plate. New types have the spacer cast into sprocket hub; 36 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	69	CS-642		
	16	Lifter	69	HT-2083 Std Only	Hyd.	
	16	Lifter, Bulk	69	HT-2083B Std Only	Hyd.; Carton of 122	
	1	Prelube	69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	69	KC-642	Hyd.; Incl. (1) CS-642, (16) HT-2083, (1) 55-403B	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	69	RP-3172B	Ball & ball type ends; 9.5600" O.A.L.	
	16	Push Rod	69	RP-3172	Ball & ball type ends; 9.6210" O.A.L.	
	16	Push Rod	69	RP-3172A	Ball & ball type ends; 9.6800" O.A.L.	
	16	Push Rod	69	RP-3172C	9.59" O.A.L.; 9.5910" O.A.L.	
	16	Push Rod, Bulk	69	BRP-3172B	Ball & ball type ends; Carton of 100; 9.5600" O.A.L.	
	16	Push Rod, Bulk	69	BRP-3172	Ball & ball type ends; Carton of 100; 9.6210" O.A.L.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	16	Arm	69	R-821	Adj.	
	16	Arm	69	R-814	Non-Adj.	
	2	Rocker Shaft	69	RS-621		
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	8	Exhaust	69	V-1875 Std Only	Chrome plated stem; 1.6520" Head Dia., .3705" Stem Dia., 5.4260" O.A.L.	
	8	Intake	69	V-1876 Std Only	Chrome plated stem; 2.0870" Head Dia., .3710" Stem Dia., 5.4470" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	16	Spring	69	VS-717	Incl. damper; 2.0260" Free Height	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
	16	Valve Stem Seal	69	ST-2002	Installation requires valve guide machining; Polyacrylate	
	16	Valve Stem Seal	69	MV-1775C	Umbrella type; Polyacrylate	
	16	Valve Stem Seal Bulk	69	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
	16	Valve Stem Seal Bulk	69	MV-1775	Umbrella type; Carton of 100; Polyacrylate	
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	8	Exh.	69	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	
	8	Exh.	69	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
	8	Int.	69	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth	
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	32	Keeper	69	VK-138	1 groove; Square cut key groove	
	32	Keeper	69	VK-138R	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	69	VK-138B	1 groove; Square cut key groove; Carton of 1000	

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# Ford Truck (Includes Minivans and SUV's)

**7.0L 428 OHV V8, 4.13" Bore 1969-68 44**

**L/D Truck VIN Codes "Q" 1968-69, "R" 1968-69 (Cobra Jet & Super Cobra Jet) (cont.)**

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring Insert	69	<b>259-306B</b>	.030"; Carton of 100
16	Spring Insert	69	<b>259-306A</b>	.060"; Carton of 100
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	69	<b>354P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.
8	Cast Piston - Individual	69	<b>W354P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.665" CD, .9753" Pin Dia., Recessed Head .120" deep - 10.2:1 C.R.
8	Pin Bushing	69	<b>2304V</b>	Split type bushing
8	Pin Bushing	69	<b>2304V20</b>	Split type bushing; w/.020" extra bore stock
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	69	<b>E-261K</b> Std-30-40-60	2-5/64, 1-3/16
1	Standard Set	69	<b>E-261X</b> Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69	<b>WE-261K</b> Std-30-40	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	69	<b>4261M</b> Std-1-10-20-30-40-50-60	3.824" max. flange OD
1	Rod Set	69	<b>8-3230CP</b> Std-1-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.; 8-3230CA 60 avail. as unplated & resizeable
1	Rod Set	69	<b>8-3230CP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore; Squirt hole removed from all Ford V Eng's.
1	Rod Set	69	<b>8-3230CA60</b> 60	Unplated & resizeable; Squirt hole removed from all Ford V Eng's.
8	Rod Pair	69	<b>3230CP</b> Std-1-2-10-20-30-40-50	Squirt hole removed from all Ford V Eng's.
1	Cam Set	69	<b>1445M</b> Std Only	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	69-68	<b>260-1035</b>	Exh. pipe flange not incl.; Exh. heat shields not incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	69-68	<b>381-8017</b>	
1	Steel Block Plug Kit	69-68	<b>381-4015</b>	
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
69	Exh. pipe flange not incl.; Exh. heat shields not incl.; Squirt hole removed from all Ford V Eng's.	Re-ring		<b>ECONOMY KIT NO.</b>
				<b>205-672</b>
				<b>205-172</b>

**7.0L 429 OHV V8, 4.36" Bore 1973-70 45**

**L/D Truck VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "N" 1970-73, "P" 1971-72 (Police), "R" 1971**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	73-70	<b>KT3-491SA</b>	Incl. (1) 222-491, (1) 223-420A, (1) 223-493
1	Timing Chain	73-70	<b>222-491</b>	52 Links
1	Crank Sprocket	73-70	<b>223-493</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	73-70	<b>223-420A</b>	36 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	73-70	<b>CS-648</b>	Hyd.
16	Lifter	73-70	<b>HT-900</b> Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	73-70	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
1	Prelube	73-70	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	73-72	<b>KC-648</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-648</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-648</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	73	<b>V-1984</b> Std-15	Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	72-70	<b>V-1849</b> Std Only	Chrome plated stem; 1.6540" Head Dia., .3420" Stem Dia., 5.0830" O.A.L.
8	Exhaust, Bulk	73	<b>V-1984B15</b> 15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Intake	73	<b>V-3929</b> Std-15	Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake	72-70	<b>V-1850</b> Std Only	Chrome plated stem; 2.0830" Head Dia., .3420" Stem Dia., 5.2880" O.A.L.
8	Intake, Bulk	73	<b>V-3929B15</b> 15	Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

## 45 7.0L 429 OHV V8, 4.36" Bore 1973-70

(cont.) L/D Truck VIN Codes "C" 1970-71 (Cobra Jet & Super Cobra Jet), "J" 1970-71 (Cobra Jet & Super Cobra Jet), "N" 1970-73, "P" 1971-72 (Police), "R" 1971

VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	16	Guide	73-70	VG-5061	.3430" ID, 2.3800" O.A.L.		
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	16	Spring	73-70	VS-661	Incl. damper; 2.0460" Free Height		
	16	Spring, Bulk	73-70	VS-703B	2.0560" Free Height Carton of 250; 2.0560" Free Height		
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	8	Exh.	73-70	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth		
	8	Exh.	73-70	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth		
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	8	Int.	73-70	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth		
	8	Int.	73-70	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth		
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	16	Spring Insert	73-70	259-103C	.015"; ID 1.030"; Carton of 100		
	16	Spring Insert	73-70	259-103B	.030"; ID 1.030"; Carton of 100		
	16	Spring Insert	73-70	259-103BRS	.030"; ID 1.030"; Carton of 500		
	16	Spring Insert	73-70	259-103A	.060"; ID 1.030"; Carton of 100		
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	16	Spring Insert	73-70	259-103ARS	.060"; ID 1.030"; Carton of 500		
	16	Spring Insert	73-70	259-103ARS	.060"; ID 1.030"; Carton of 500		
	16	Spring Insert	73-70	259-103ARS	.060"; ID 1.030"; Carton of 500		
	16	Spring Insert	73-70	259-103ARS	.060"; ID 1.030"; Carton of 500		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK	
	8	Cast Piston	73-70	413AP * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Oblong Recessed Head .120" deep - 8.0:1 C.R.		
	8	Cast Piston	73-70	413NP + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Oblong Recessed Head .120" deep - 8.0:1 C.R.; When depleted use 413AP		
	8	Cast Piston - Individual	73-70	W413AP30 * 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Recessed Head; Oblong shape .120" deep - 8.0:1 C.R.		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK	
	8	Cast Piston - Individual	73-70	W413NP30 + 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.883" CD, 1.0402" Pin Dia., Recessed Head; Oblong shape .120" deep - 8.0:1 C.R.; When depleted use W413AP 30		
	1	Premium Set	73-70	E-897K Std-20-30-40-60	2-2.00MM, 1-4.00MM; w/Shallow oil ring groove		
	1	Premium Set	73-70	E-296K Std-20-30-40-60	2-5/64, 1-3/16		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Standard Set	73-70	E-296X Std-20-30-40-60	2-5/64, 1-3/16		
	8	Premium Single Cylinder Set	73-70	WE-296K Std-20-30-40-60	2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	73-70	WE-296X Std-20-30-40-60	2-5/64, 1-3/16		
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Main Set	73-70	4907M Std-1-10-20-30-40			
	1	Rod Set	73-70	8-3360CPA Std-1-10-20-30-40			
	1	Rod Set	73-70	8-3360CPA10X2 10X2-20X2	Use in .002" O/S Rod Bore		
	8	Rod Pair	73-70	3360CPA Std-1-10-20-30-40			
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Cam Set	73-70	1414M Std Only	Babbitt material; Full round design		
	1	Oil Pump	73-70	224-41139V	High Volume, check pan for clearance; Incl. 224-14160 screen		
	1	Oil Pump	73-70	224-41139	Use w/224-12139		
	1	Pump Repair Kit	73-70	224-51139			
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Inter. Shaft	73-70	224-61127			
	1	Screen Assy.	73-70	224-14160	Bolt-on type screen		
	1	Screen Assy.	73-70	224-12139	Press-in type screen		
	1	Kit Gasket Set	73-70	260-1013	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Kit Gasket Set	73-70	260-1013	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Brass Block Plug Kit	73-70	381-8018			
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Steel Block Plug Kit	73-70	381-4021			
KITS	RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	73-70	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.		Re-ring	205-637	205-137	
				Re-ring w/Mains	205-637M	205-137M	
KITS	OVERHAUL KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	73-70	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.		Master	MKP-637A	MKP-137A	
				Master w/o Rods & Mains	505-637A	505-137A	
KITS	OVERHAUL KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	73-70	Exh. pipe packing not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.		Master w/o Pistons	MK-637D	MK-137D	

# Ford Truck (Includes Minivans and SUV's)

7.3L 444 OHV Diesel V8 (IDI), 4.1102" Bore (International Eng.) 1990-88 **46**  
L/D Truck VIN Code "M" 1988-95

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	90-88	<b>221-3342S</b>	Incl. (1) 221-3342S
1	Cam Gear	90-88	<b>221-3342</b>	106 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	90-88	<b>CS-771</b>	
16	Lifter	90-88	<b>HT-2104</b> Std Only	Hyd. rlr.
16	Lifter, Bulk	90-88	<b>HT-2104B</b> Std Only	Hyd. rlr.; Carton of 113
1	Prelube	90-88	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90-88	<b>KC-771</b>	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-88	<b>KCT-771</b>	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 221-3342S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	90-88	<b>RP-3237</b>	Install w/copper colored ball toward rocker arm; 9.9890" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	90-88	<b>R-1119</b>	Incl. 2-arms, 2-pivots & 1-retainer
16	Arm	90-88	<b>R-949</b>	Incl. 1-rocker arm
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	90-88	<b>V-2302</b> Std Only	Chrome plated stem; 1.5950" Head Dia., .3719" Stem Dia., 5.6700" O.A.L.
8	Intake	90-88	<b>V-2303</b> Std Only	Chrome plated stem; 1.8770" Head Dia., .3719" Stem Dia., 5.6880" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	90-88	<b>VG-1414</b>	.3745" ID, 2.6000" O.A.L.
16	Guide	90-88	<b>VG-804</b>	Repair Guide; .3750" ID, 2.6000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	90-88	<b>VS-693</b>	Incl. damper; 2.0500" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90-88	<b>MV-1796C</b>	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
8	Valve Stem Seal Bulk	90-88	<b>MV-1796</b>	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	90-88	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	90-88	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-88	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	90-89	<b>2771PN</b> Std-20-40	Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.939" CD, 1.1100" Pin Dia., Ricardo Cup; Same as FP-1816674 Exc. De-Stroke .010"
8	Cast Piston	90-89	<b>2745PN40</b> 40	Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.949" CD, 1.1100" Pin Dia., Ricardo Cup; Repl. O.E. Nos. 1813154C1, E9TZ-6102A
8	Cast Piston	90-89	<b>H651CP</b> Std-20-30-40	Use w/E-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	88	<b>H651CP</b> Std-20-30-40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	88	<b>2745PN40</b> 40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.949" CD, 1.1100" Pin Dia., Ricardo Cup; Repl. O.E. Nos. 1813154C1, E9TZ-6102A
8	Cast Piston	88	<b>2771PN</b> Std-20-40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.939" CD, 1.1100" Pin Dia., Ricardo Cup; Same as FP-1816674 Exc. De-Stroke .010"
8	Cast Piston - Individual	90-89	<b>WH651CP</b> Std-20-30-40	Use w/E-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; <b>DurOshield® skirt coated piston</b>

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

## 46 7.3L 444 OHV Diesel V8 (IDI), 4.1102" Bore (International Eng.) 1990-88

(cont.) L/D Truck VIN Code "M" 1988-95

BLOCK		QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK	
		8	Cast Piston - Individual	88	WH651CP	Std-20-30-40		From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/WE-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; DurOshield® skirt coated piston
8	Pin Bushing	90-88	3814Y20					
BLOCK		QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
		1	Premium Set	90-88	E-509K	Std-20-30-40		Check piston grooving before supplying ring set; From Ser. No. 598754; 1-.118, 1-.078, 1-.136; 2nd ring gap is .060-.075" like O.E. ring
8	Premium Single Cylinder Set	90-88	WE-509K	Std-20-30-40	Check piston grooving before supplying ring set; From Ser. No. 598754; 1-.118, 1-.078, 1-.136; 2nd ring gap is .060-.075" like O.E. ring			
BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
		1	Main Set	90-88	5110M	Std-1-2-10-20-30		
		1	Main Set	90-88	7219M10	10-20-30		w/.010" O/S length flange brg.
		1	Rod Set	90-88	8-3810CP	Std-10-20-30-40		
		8	Rod Pair	90-88	3810CP	Std-1-10-20-30-40		
1	Cam Set	90-88	1467M	Std Only				
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK	
		1	Oil Pump	90-88	224-41999			
BLOCK		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	BLOCK	
		1	Kit Gasket Set	90-88	260-1673			Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	90-88	260-4029					
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
		1	Brass Block Plug Kit	90-88	381-8056			Incl. 7 centerless ground OD, stainless steel block plugs
BLOCK		RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	BLOCK	
		YEARS	DESCRIPTION	DESCRIPTION	205-6091	----		
90-88	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; 2nd ring gap is .060-.075" like O.E. ring	Re-ring	205-6091M	----				
BLOCK		OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	BLOCK	
		YEARS	DESCRIPTION	DESCRIPTION	BK-6178	----		
90-89	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Block	BKP-6178	----				
90-89	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs	Block w/Pump & Freeze Plugs	BKP-6178	----				
90-88	Int. manifold gskt. not incl.; Check piston grooving before supplying kit; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master	MKP-6091A	----				
		Master w/o Pistons	MK-6091A	----				
		Master w/o Rods & Mains	505-6091A	----				
88	From Ser. No. 598754; Piston replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Block	BK-6178	----				
88	From Ser. No. 598754; Piston replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs	Block w/Pump & Freeze Plugs	BKP-6178	----				

## 47 7.5L 460 OHV V8, 4.36" Bore 1990-73

L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-88	KT3-168SA2	Incl. (1) 222-168, (1) 223-438, (1) 223-685
1	3 Piece Set	87-77	KT3-491S	Incl. (1) 222-491, (1) 223-420A, (1) 223-421
1	3 Piece Set	76-73	KT3-491S	Incl. (1) 222-491, (1) 223-420A, (1) 223-421
1	Timing Chain	90-88	222-168	Double rlr.; 66 Links
1	Timing Chain	87-77	222-491	52 Links
1	Timing Chain	76-74	222-491	52 Links
1	Timing Chain	73	222-491	52 Links
1	Crank Sprocket	90-88	223-685	22 Teeth
1	Crank Sprocket	87-77	223-421	18 Teeth
1	Crank Sprocket	76-74	223-421	18 Teeth
1	Crank Sprocket	73	223-493	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crankshaft sprocket 223-493; 18 Teeth
1	Cam Sprocket	90-88	223-438	44 Teeth
1	Cam Sprocket	87-73	223-420A	36 Teeth

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# Ford Truck (Includes Minivans and SUV's)

**7.5L 460 OHV V8, 4.36" Bore 1990-73 47**

L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87 (cont.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-73	<b>CS-648</b>	
16	Lifter	90-73	<b>HT-900</b> Std Only	Hyd.
16	Lifter	90-73	<b>HT-900R</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk	90-73	<b>HT-900B</b> Std Only	Hyd.; Carton of 122
16	Lifter, Bulk	90-73	<b>HT-900RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.; Carton of 122
1	Prelube	90-73	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-73	<b>KC-648</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-88	<b>KCT-648C</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) KT3-168SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-73	<b>KCT-648</b>	Hyd.; Incl. (1) CS-648, (16) HT-900, (1) KT3-491S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90	<b>RP-3288</b>	8.5920" O.A.L.
16	Push Rod	89-73	<b>RP-3160</b>	8.5500" O.A.L.
16	Push Rod	89-73	<b>RP-3252</b>	8.6160" O.A.L.
16	Push Rod, Bulk	90	<b>BRP-3288</b>	Carton of 100; 8.5920" O.A.L.
16	Push Rod, Bulk	89-73	<b>BRP-3160</b>	Carton of 100; 8.5500" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-73	<b>R-855</b>	Incl. arm & pivot
16	Arm Assy., Bulk	90-73	<b>R-855B</b>	Incl. arm & pivot; Carton of 64
16	Arm	90-73	<b>R-855A</b>	
16	Bolt	90-73	<b>MR-1951</b>	5/16" X 18 UNC w/o washer
16	Pivot	90-73	<b>MR-1811</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-87	<b>V-4371X</b> Std-15	Chrome plated stem; 1.6540" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust	86-73	<b>V-1984</b> Std-15	Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
8	Exhaust, Bulk	90-87	<b>V-4371XB15</b> 15	Chrome plated stem; Carton of 25; 1.6540" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Exhaust, Bulk	86-73	<b>V-1984B15</b> 15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
8	Intake	90-87	<b>V-2452</b> Std Only	Chrome plated stem; 1.9770" Head Dia., .3419" Stem Dia., 5.1799" O.A.L.
8	Intake	86-73	<b>V-3929</b> Std-15	Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
8	Intake, Bulk	86-73	<b>V-3929B15</b> 15	Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90-73	<b>VG-5006</b>	Exh. & Int.; .3440" ID, 2.3750" O.A.L.
16	Guide	90-73	<b>VG-5006T</b>	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.
16	Guide, Bulk	90-73	<b>VG-5006B</b>	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.
16	Guide, Bulk	90-73	<b>VG-5006TB</b>	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-89	<b>VS-920</b>	2.1140" Free Height
16	Spring	90-77	<b>VS-1455</b>	Optional-H/D; 2.3000" Free Height
16	Spring	88-73	<b>VS-703</b>	2.0560" Free Height
16	Spring, Bulk	88-73	<b>VS-703B</b>	Carton of 250; 2.0560" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-73	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	90-73	<b>MV-1796C</b>	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal Bulk	90-73	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	90-73	<b>MV-1796</b>	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-88	<b>245-1781-E1N</b> Std Only	1.781" OD; 1.7810" OD, 1.4760" ID, .3110" Depth
8	Exh.	90-73	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	90-73	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-73	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-73	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-73	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-73	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	90-73	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

**47 7.5L 460 OHV V8, 4.36" Bore 1990-73**  
 (cont.) L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring Insert	90-73	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	90-73	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	90-73	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-88	<b>H582CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .065" deep - 8.9:1 C.R. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	90-88	<b>H582P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .065" deep - 8.9:1 C.R.
8	Cast Piston	87-73	<b>H418CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	87-73	<b>H418P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
8	Cast Piston - Individual	90-88	<b>WH582P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .065" deep - 8.9:1 C.R.
8	Cast Piston - Individual	90-88	<b>WH582CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Recessed Head .065" deep oblong dish - 8.9:1 C.R. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	87-73	<b>WH418CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	87-73	<b>WH418P</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-88	<b>8KH582CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .065" deep - 8.9:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	87-73	<b>8KH418CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.; <b>Duroshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	87-73	<b>8KH418P20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-88	<b>8XH582P40</b> 40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .065" deep - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings	87-73	<b>8XH418P20</b> 20-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, 1.0402" Pin Dia., Oblong Recessed Head .240" deep - 8.0:1 C.R.
8	Powerforged	87-73	<b>L-2404F</b> Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.756" CD, 1.0402" Pin Dia., Recessed Head .180" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	87-73	<b>WL-2404F</b> Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.756" CD, 1.0402" Pin Dia., Recessed Head .180" deep. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-73	<b>E-296K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-73	<b>E-296X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-73	<b>WE-296K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-73	<b>WE-296X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-73	<b>4907M</b> Std-1-10-20-30-40	
1	Rod Set	90-73	<b>8-3360CPA</b> Std-1-10-20-30-40	
1	Rod Set	90-73	<b>8-3360CPA10X2</b> 10X2-20X2	Use in .002" O/S Rod Bore
8	Rod Pair	90-73	<b>3360CPA</b> Std-1-10-20-30-40	
1	Cam Set	90-73	<b>1414M</b> Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-89	<b>224-41144</b>	F53 stripped chassis
1	Oil Pump	90-79	<b>224-41144V</b>	E250, E300, E350, F250, F300, F350; High Volume, check pan for clearance
1	Oil Pump	90-79	<b>224-41144</b>	E250, E300, E350, F250, F300, F350, F450
1	Oil Pump	78-75	<b>224-41144</b>	E250, E300, E350
1	Oil Pump	78-75	<b>224-41144V</b>	E250, E300, E350; High Volume, check pan for clearance
1	Oil Pump	78-75	<b>224-41139V</b>	F100, F150, F200, F250, F300, F350; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Oil Pump	78-75	<b>224-41139</b>	F100, F150, F200, F250, F300, F350; Use w/224-12139
1	Oil Pump	74-73	<b>224-41139V</b>	F100, F200, F250, F300, F350; High Volume, check pan for clearance; Incl. 224-14160 screen
1	Oil Pump	74-73	<b>224-41139</b>	F100, F200, F250, F300, F350; Use w/224-12139
1	Pump Repair Kit	90-73	<b>224-51139</b>	

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# Ford Truck (Includes Minivans and SUV's)

**7.5L 460 OHV V8, 4.36" Bore 1990-73 47**

**L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87 (cont.)**

	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Inter. Shaft	90-73	224-61127	
	1	Screen Assy.	90-79	224-14257	
	1	Screen Assy.	90-79	224-14160	Use w/high volume oil pump; Bolt-on type screen
	1	Screen Assy.	78-75	224-12139	F100, F150, F200, F250, F300, F350; Press-in type screen
	1	Screen Assy.	78-73	224-14160	F250, F300, F350; Use w/224-41139V; Bolt-on type screen
	1	Screen Assy.	78-73	224-14273	F250, F350
	1	Screen Assy.	74-73	224-12139	F100, F200, F250, F300, F350; Press-in type screen
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Kit Gasket Set	90	260-1453	E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	90	260-1453	F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	89	260-1453	From 3/31/89; E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	89	260-1453	From 3/31/89; F53 stripped chassis; Motor Home int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	89	260-1452	To 3/30/89; E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	89	260-1452	To 3/30/89; F53 stripped chassis; Int. manifold gskt. not incl.; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	88	260-1452	E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	88	260-1452	F53 stripped chassis; Int. manifold gskt. not incl.; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	260-1223	Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	86	260-1223	From 2/21/86; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	86	260-1177	To 2/20/86; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85	260-1013	E250, E300, E350, F250, F300, F350; From 3/12/85 to 6/28/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85	260-1013	E250, E300, E350, F250, F300, F350; To 3/11/85; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85	260-1177	From 6/29/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	84-75	260-1013	W/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	74	260-1013	From Ser. No. T20,001; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	74	260-1013	To Ser. No. T20,000; Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	73	260-1013	Exh. heat shields not incl.; Premium valve stem seals incl.
	1	Valley Pan Gasket Set	90-89	260-4005	F53 stripped chassis
	1	Valley Pan Gasket Set	87-75	260-4005	Exc. LPG Engs.
	1	Valley Pan Gasket Set	87-75	260-4031	LPG Engs.
	1	Valley Pan Gasket Set	74	260-4005	From Ser. No. T20,001; Exc. LPG Engs.
	1	Valley Pan Gasket Set	74	260-4031	From Ser. No. T20,001; LPG Engs.
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Brass Block Plug Kit	90-73	381-8018	
	1	Steel Block Plug Kit	90-73	381-4021	
		<b>RE-RING KIT</b>			
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	90	E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.			Re-ring Re-ring w/Mains
					<b>PREMIUM KIT NO.</b> 205-6124
					<b>ECONOMY KIT NO.</b> 205-1124
					<b>205-6124M</b> <b>205-1124M</b>

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# Ford Truck (Includes Minivans and SUV's)

**47 7.5L 460 OHV V8, 4.36" Bore 1990-73**  
 (cont.) L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87

RE-RING KIT (cont.)			<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION		KIT NO.	KIT NO.
90	F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6124 205-6124M	205-1124 205-1124M
89	To 3/30/89; E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6123 205-6123M	205-1123 205-1123M
89	To 3/30/89; F53 stripped chassis; Int. manifold gskt. not incl.; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6123 205-6123M	205-1123 205-1123M
89	From 3/31/89; E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6124 205-6124M	205-1124 205-1124M
89	From 3/31/89; F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6124 205-6124M	205-1124 205-1124M
88	E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6123 205-6123M	205-1123 205-1123M
88	F53 stripped chassis; Int. manifold gskt. not incl.; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6123 205-6123M	205-1123 205-1123M
87	Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6003 205-6003M	205-1003 205-1003M
86	From 2/21/86; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6003 205-6003M	205-1003 205-1003M
86	To 2/20/86; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-768 205-768M	205-268 205-268M
85	E250, E300, E350, F250, F300, F350; From 3/12/85 to 6/28/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
85	E250, E300, E350, F250, F300, F350; To 3/11/85; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
85	From 6/29/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-768 205-768M	205-268 205-268M
84-77	w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
76-75	w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
74	From Ser. No. T20,001; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
74	To Ser. No. T20,000; Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
73	Exh. heat shields not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-637 205-637M	205-137 205-137M
OVERHAUL KIT			<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION		KIT NO.	KIT NO.
90	E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6124A MK-6124A 505-6124A	MKP-1124A MK-1124A 505-1124A
90	F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains	MKP-6124A MK-6124A 505-6124A	MKP-1124A MK-1124A 505-1124A

(continued on next page)

# Ford Truck (Includes Minivans and SUV's)

7.5L 460 OHV V8, 4.36" Bore 1990-73 **47**

L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87 (cont.)

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>		
	90	E250, E300, E350, F250, F300, F350, F450; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block BKP-6173 BK-6173	----- -----
	90	F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block BKP-6173 BK-6173	----- -----
	89	To 3/30/89; E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-6123A MK-6123A 505-6123A	MKP-1123A MK-1123A 505-1123A
	89	To 3/30/89; F53 stripped chassis; Int. manifold gskt. not incl.; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-6123A MK-6123A 505-6123A	MKP-1123A MK-1123A 505-1123A
	89	From 3/31/89; E250, E300, E350, F250, F300, F350; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-6124A MK-6124A 505-6124A	MKP-1124A MK-1124A 505-1124A
	89	From 3/31/89; F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-6124A MK-6124A 505-6124A	MKP-1124A MK-1124A 505-1124A
	89	From 3/31/89; E250, E300, E350, F250, F300, F350, F450; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block BKP-6173 BK-6173	----- -----
	89	From 3/31/89; F53 stripped chassis; Int. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskts. & one-piece molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block BKP-6173 BK-6173	----- -----
	88	E250, E300, E350, F250, F300, F350; Multi-piece oil pan gskt. incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-6123A MK-6123A 505-6123A	MKP-1123A MK-1123A 505-1123A
	87	E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-6003A MKP-6003A MK-6003A 505-6003A	----- MKP-1003A MK-1003A 505-1003A
	86	From 2/21/86; E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-6003A MKP-6003A MK-6003A 505-6003A	----- MKP-1003A MK-1003A 505-1003A
	86	To 2/20/86; E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Freeze plugs not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-268A
	86	To 2/20/86; E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-768A MKP-768A MK-768A 505-768A	----- MKP-268A MK-268A -----
	85	E250, E300, E350, F250, F300, F350; From 3/12/85 to 6/28/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-637F MKP-637F MK-637F 505-637F	----- MKP-137F MK-137F -----
	85	E250, E300, E350, F250, F300, F350; To 3/11/85; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-637F MKP-637F MK-637F 505-637F	----- MKP-137F MK-137F -----
	85	E250, E300, E350, F250, F300, F350; From 3/12/85 to 6/28/85; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-267A
	85	E250, E300, E350, F250, F300, F350; To 3/11/85; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-267A

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# Ford Truck (Includes Minivans and SUV's)

**47 7.5L 460 OHV V8, 4.36" Bore 1990-73**  
 (cont.) L/D Truck VIN Codes "A" 1973-79, "G" 1987-98, "J" 1973-79, "L" 1980-87

<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		
85	From 6/29/85; E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Freeze plugs not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-268A
85	From 6/29/85; E250, E300, E350, F250, F300, F350, F450; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-768A MKP-768A MK-768A 505-768A	----- MKP-268A MK-268A -----
84-80	E250, E300, E350, F250, F300, F350, F450; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-637F MKP-637F MK-637F 505-637F	----- MKP-137F MK-137F -----
84-80	E250, E300, E350, F250, F300, F350, F450; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-267A
79	E250, E300, E350, F250, F300, F350, F450; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-637F MKP-637F MK-637F 505-637F	----- MKP-137F MK-137F -----
79	E250, E300, E350, F250, F300, F350, F450; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-267A
78-77	F100, F150, F200, F250, F300, F350; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-637E MK-637E 505-637E	MKP-137E MK-137E 505-137E
78-75	E250, E300, E350; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons Master w/o Rods & Mains MKF-637F MKP-637F MK-637F 505-637F	----- MKP-137F MK-137F -----
78-75	E250, E300, E350; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains -----	505-267A
76-75	F100, F150, F200, F250, F300, F350; w/Original type timing cover; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-637E MK-637E 505-637E	MKP-137E MK-137E 505-137E
74	F100, F200, F250, F300, F350; From Ser. No. T20,001; Int. manifold gskt. not incl.; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-637E MK-637E 505-637E	MKP-137E MK-137E 505-137E
74	F100, F200, F250, F300, F350; To Ser. No. T20,000; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-637E MK-637E 505-637E	MKP-137E MK-137E 505-137E
73	F100, F200, F250, F300, F350; Exh. heat shields not incl.; Premium valve stem seals incl.; Oil pump screen not incl.	Master Master w/o Pistons Master w/o Rods & Mains MKP-637E MK-637E 505-637E	MKP-137E MK-137E 505-137E

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## Geo - See GM Car

**Engine Finding Index**

Engine	For Year	Line No.	Engine	For Year	Line No.
1.0L 61 (993cc) SOHC L3 74mm Bore (6 Valve) (Suzuki Eng.)	1990-85	1	4.1L 250 OHV L6 3.875" Bore (Chevrolet)	1979-65	51
1.0L 61 (993cc) SOHC Turbo L3 74mm Bore (6 Valve) (Suzuki Eng.)	1990-87	2	4.1L 250 SOHC L6 3.875" Bore (Pontiac)	1969-68	52
1.4L 85 (1393cc) SOHC L4 82mm Bore (Chevrolet)	1977-76	3	4.1L 252 OHV V6 3.965" Bore (Buick)	1985-80	53
1.5L 89.7 (1471cc) SOHC L4 77mm Bore (8 Valve) (Isuzu Eng.)	1989-85	4	4.3L 260 OHV V8 3.5" Bore (Oldsmobile)	1982-75	54
1.5L 89.7 (1471cc) SOHC Turbo L4 77mm Bore (8 Valve) (Isuzu Eng.)	1989-87	5	4.3L 260 OHV Diesel V8 3.5" Bore (Oldsmobile)	1979	55
1.6L 96.8 (1587cc) SOHC L4 81mm Bore (8 Valve) (Toyota Eng.)	1988-85	6	4.3L 261 OHV L6 3.75" Bore (Chevrolet)	1962-55	56
1.6L 96.8 (1587cc) DOHC L4 81mm Bore (16 Valve) (Toyota Eng.)	1990-88	7	4.3L 262 OHV V8 3.671" Bore (Chevrolet)	1976-75	57
1.6L 96.9 (1588cc) DOHC L4 80mm Bore (16 Valve) (Isuzu Eng.)	1990	8	4.3L 262 OHV V6 4" Bore (Chevrolet)	1990-85	58
1.6L 96.9 (1588cc) SOHC L4 80mm Bore (12 Valve) (Isuzu Eng.)	1990	9	4.3L 262 OHV Diesel V6 4.057" Bore (Oldsmobile)	1985-82	59
1.6L 97.5 (1598cc) SOHC L4 79mm Bore (8 Valve) (Opel Eng.)	1990-88	10	4.3L 263 OHV L8 3.1875" Bore (Buick)	1953-50	60
1.6L 98 (1599cc) SOHC L4 82mm Bore (Chevrolet)	1987-76	11	4.3L 264 OHV V8 3.625" Bore (Buick)	1955-54	61
1.8L 109.5 (1796cc) SOHC L4 84.8mm Bore (8 Valve) (Opel Eng.)	1986-82	12	4.3L 265 OHV V8 3.75" Bore (Pontiac)	1981-80	62
1.8L 109.5 (1796cc) SOHC Turbo L4 84.8mm Bore (8 Valve) (Opel Eng.)	1986-84	13	4.3L 265 OHV V8 3.75" Bore (Chevrolet)	1957-55	63
1.8L 110.8 (1817cc) SOHC Diesel L4 84mm Bore (8 Valve) (Isuzu Eng.)	1986-81	14	4.4L 267 OHV V8 3.5" Bore (Chevrolet)	1982-79	64
1.8L 112 (1835cc) OHV L4 89mm Bore (Chevrolet)	1982	15	4.5L 273 (4474cc) OHV V8 92mm Bore (Cadillac)	1990-88	65
2.0L 121 (1989cc) OHV L4 89mm Bore (Chevrolet)	1989-83	16	4.6L 283 OHV V8 3.875" Bore (Chevrolet)	1967-57	66
2.0L 122 (1998cc) SOHC L4 86mm Bore (8 Valve) (Opel Eng.)	1990-87	17	4.7L 287.2 OHV V8 3.75" Bore (Pontiac)	1955	67
2.0L 122 (1998cc) SOHC Turbo L4 86mm Bore (8 Valve) (Opel Eng.)	1990-87	18	4.9L 300 OHV V8 3.75" Bore (Buick)	1967-64	68
2.0L 122 (1999cc) DOHC L4 89mm Bore (Cosworth)	1976-75	19	4.9L 301 OHV V8 4" Bore (Pontiac)	1981-77	69
2.2L 134 (2189cc) OHV L4 89mm Bore (Chevrolet)	1990	20	4.9L 301 OHV Turbo V8 4" Bore (Pontiac)	1981-80	70
2.3L 138 (2260cc) DOHC L4 92mm Bore (16 Valve/Olds.)	1990-87	21	4.9L 302 OHV V8 4" Bore (Chevrolet)	1969-67	71
2.3L 140 OHV H6 3.375" Bore (Corvair)	1960	22	5.0L 303 OHV V8 3.75" Bore (Oldsmobile)	1953-49	72
2.3L 140 SOHC L4 3.5" Bore (Chevrolet)	1977-71	23	5.0L 305 OHV V8 3.736" Bore (Chevrolet)	1990-76	73
2.4L 145 OHV H6 3.4375" Bore (Corvair)	1963-61	24	5.0L 307 OHV V8 3.8" Bore (Oldsmobile)	1990-80	74
2.4L 145 OHV Turbo H6 3.4375" Bore (Corvair)	1963	25	5.0L 307 OHV V8 3.875" Bore (Chevrolet)	1973-68	75
2.5L 151 OHV L4 4" Bore (Pontiac)	1990-77	26	5.2L 316 OHV V8 3.9375" Bore (Pontiac)	1956	76
2.5L 153 OHV L4 3.875" Bore (Chevrolet)	1970-62	27	5.3L 322 OHV V8 4" Bore (Buick)	1956-53	77
2.7L 164 OHV H6 3.4375" Bore (Corvair)	1969-64	28	5.3L 324 OHV V8 3.875" Bore (Oldsmobile)	1956-54	78
2.8L 173 (2835cc) OHV V6 89mm Bore (Chevrolet)	1989-80	29	5.3L 326 OHV V8 3.7188" Bore (Pontiac)	1967-63	79
3.0L 181 OHV V6 3.8" Bore (Buick)	1988-82	30	5.3L 327 OHV V8 4" Bore (Chevrolet)	1969-62	80
3.1L 189 (3136cc) OHV V6 89mm Bore (Chevrolet)	1990-88	31	5.4L 330 OHV V8 3.9375" Bore (Oldsmobile)	1967-64	81
3.1L 189 (3136cc) OHV Turbo V6 89mm Bore (Chevrolet)	1990-89	32	5.4L 331 OHV V8 3.8125" Bore (Cadillac)	1955-49	82
3.2L 194 OHV L6 3.5625" Bore (Chevrolet)	1967-62	33	5.6L 340 OHV V8 3.75" Bore (Buick)	1967-66	83
3.2L 195 OHV L4 4.0625" Bore (Pontiac)	1963-61	34	5.7L 347 OHV V8 3.9375" Bore (Pontiac)	1957	84
3.2L 196 OHV V6 3.5" Bore (Buick)	1979-78	35	5.7L 348 OHV V8 4.125" Bore (Chevrolet)	1961-58	85
3.2L 198 OHV V6 3.625" Bore (Buick)	1963-62	36	5.7L 350 OHV V8 3.8" Bore (Buick)	1981-68	86
3.3L 200 OHV V6 3.5" Bore (Chevrolet)	1979-78	37	5.7L 350 OHV V8 3.875" Bore (Pontiac)	1977-68	87
3.3L 204 OHV V6 3.7" Bore (Buick)	1990-89	38	5.7L 350 OHV V8 4" Bore (Chevrolet)	1990-67	88
3.5L 215 OHV V8 3.5" Bore (Buick)	1963-61	39	5.7L 350 DOHC V8 4" Bore (32 Valve) (Mercury Marine Eng.)	1990	89
3.5L 215 OHV Turbo V8 3.5001" Bore (Oldsmobile)	1963-62	40	5.7L 350 OHV Diesel V8 4.057" Bore (Oldsmobile)	1985-78	90
3.5L 215 OHV L6 3.75" Bore (Pontiac)	1965-64	41	5.7L 350 OHV V8 4.057" Bore (Oldsmobile)	1980-68	91
3.5L 216.5 OHV L6 3.5" Bore (Chevrolet)	1952-37	42	6.0L 364 OHV V8 4.125" Bore (Buick)	1961-57	92
3.7L 225 OHV V6 3.75" Bore (Buick)	1967-64	43	6.0L 365 OHV V8 4" Bore (Cadillac)	1958-56	93
3.8L 229 OHV V6 3.736" Bore (Chevrolet)	1984-80	44	6.0L 368 OHV V8 3.8" Bore (Cadillac)	1984-80	94
3.8L 230 OHV L6 3.875" Bore (Chevrolet)	1970-63	45	6.1L 370 OHV V8 4.0625" Bore (Pontiac)	1958-57	95
3.8L 230 SOHC L6 3.875" Bore (Pontiac)	1967-66	46	6.1L 371 OHV V8 4" Bore (Oldsmobile)	1960-57	96
3.8L 231 OHV V6 3.8" Bore (Buick)	1990-75	47	6.4L 389 OHV V8 4.0625" Bore (Pontiac)	1966-59	97
3.8L 231 OHV Turbo V6 3.8" Bore (Buick)	1989-78	48	6.4L 390 OHV V8 4" Bore (Cadillac)	1963-59	98
3.8L 235 OHV L6 3.5625" Bore (Chevrolet)	1962-53	49	6.5L 394 OHV V8 4.125" Bore (Oldsmobile)	1964-59	99
4.1L 250 (4097cc) OHV V8 88mm Bore (Cadillac)	1988-82	50	6.5L 396 OHV V8 4.0938" Bore (Chevrolet)	1969-65	100
			6.6L 400 OHV V8 4" Bore (Oldsmobile)	1967-65	101
			6.6L 400 OHV V8 3.87" Bore (Oldsmobile)	1969-68	102
			6.6L 400 OHV V8 4.04" Bore (Buick)	1969-67	103
			6.6L 400 OHV V8 4.125" Bore (Chevrolet)	1976-70	104
			6.6L 400 OHV V8 4.125" Bore (Pontiac)	1979-67	105
			6.6L 400 OHV V8 4.1875" Bore (Buick)	1966-65	106
			6.6L 401 OHV V8 4.1875" Bore (Buick)	1966-59	107
			6.6L 402 OHV V8 4.125" Bore (Chevrolet)	1972-70	108
			6.6L 403 OHV V8 4.351" Bore (Oldsmobile)	1979-77	109
			6.7L 409 OHV V8 4.3125" Bore (Chevrolet)	1965-61	110
			6.9L 421 OHV V8 4.0938" Bore (Pontiac)	1966-61	111
			7.0L 425 OHV V8 4.082" Bore (Cadillac)	1979-77	112
			7.0L 425 OHV V8 4.125" Bore (Oldsmobile)	1967-65	113
			7.0L 425 OHV V8 4.3125" Bore (Buick)	1966-63	114
			7.0L 427 OHV V8 4.25" Bore (Chevrolet)	1969-66	115
			7.0L 428 OHV V8 4.125" Bore (Pontiac)	1969-67	116
			7.0L 429 OHV V8 4.125" Bore (Cadillac)	1967-64	117
			7.0L 430 OHV V8 4.1875" Bore (Buick)	1969-67	118
			7.4L 454 OHV V8 4.25" Bore (Chevrolet)	1976-70	119
			7.5L 455 OHV V8 4.125" Bore (Oldsmobile)	1976-68	120
			7.5L 455 OHV V8 4.151" Bore (Pontiac)	1976-70	121
			7.5L 455 OHV V8 4.3125" Bore (Buick)	1976-70	122
			7.7L 472 OHV V8 4.3" Bore (Cadillac)	1974-68	123
			8.2L 500 OHV V8 4.3" Bore (Cadillac)	1976-70	124

# GM Car

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G10	1.0L 61 (993cc) SOHC L3 74mm Bore (6 Valve) (Suzuki Eng.)	1	4FB1	1.8L 110.8 (1817cc) SOHC Diesel L4 84mm Bore (8 Valve) (Isuzu Eng.)	14
G10-T	1.0L 61 (993cc) SOHC Turbo L3 74mm Bore (6 Valve) (Suzuki Eng.)	2	4XC1	1.5L 89.7 (1471cc) SOHC L4 77mm Bore (8 Valve) (Isuzu Eng.)	4
4AFE	1.6L 96.8 (1587cc) DOHC L4 81mm Bore (16 Valve) (Toyota Eng.)	7	4XC1-T	1.5L 89.7 (1471cc) SOHC Turbo L4 77mm Bore (8 Valve) (Isuzu Eng.)	5
4AGE	1.6L 96.8 (1587cc) DOHC L4 81mm Bore (16 Valve) (Toyota Eng.)	7	4XE1V	1.6L 96.9 (1588cc) SOHC L4 80mm Bore (12 Valve) (Isuzu Eng.)	9
4ALC	1.6L 96.8 (1587cc) SOHC L4 81mm Bore (8 Valve) (Toyota Eng.)	6	4XE1W	1.6L 96.9 (1588cc) DOHC L4 80mm Bore (16 Valve) (Isuzu Eng.)	8

### 1 1.0L 61 (993cc) SOHC L3 (6 Valve), 74mm Bore (Suzuki Eng.) 1990-85 VIN Codes "M" 1985, "5" 1985-88, "6" 1989-2001, Eng. Code "G10" 1985-2001

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-B166	
1	Timing Belt	88-85	222-95	
1	Timing Belt Tensioner	90-89	222-348BT	
1	Timing Belt Tensioner	88-85	222-182BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-1576	Eng. Code "G10"
6	Lifter	90-89	HT-2272 Std Only	Eng. Code "G10"; Hyd. bucket type lifter
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
3	Exhaust	90-89	V-4342 Std Only	Chrome plated stem; 1.1020" Head Dia., .2144" Stem Dia., 3.3110" O.A.L.
3	Exhaust	88-85	V-2334X Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
3	Exhaust, Bulk	90-89	V-4342B Std Only	Chrome plated stem; Carton of 25; 1.1020" Head Dia., .2144" Stem Dia., 3.3110" O.A.L.
3	Intake	90-89	V-4341 Std Only	Chrome plated stem; 1.3780" Head Dia., .2151" Stem Dia., 3.3130" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-89	VG-816	.2170" ID, 1.2600" O.A.L.
6	Guide	88-85	VG-817	.2757" ID, 1.8950" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90-89	ST-2120	Exh. & Int.; O.E. design; Positive type; Viton®
6	Valve Stem Seal	88-85	ST-2119	Exh. & Int.; O.E. design; Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
3	Exh.	90-89	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
3	Int.	90-89	245-1500-77 Std Only	1.235" ID top taper; 1.5000" OD, 1.1750" ID, .2360" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
6	Keeper	90-89	VK-245	Exh. & Int.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
3	Cast Piston	90-89	13509P Std-.50MM	VIN Code "6"; Cast; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 23.7mm CD, 17.0mm Pin Dia., Recessed Head 2.00mm deep w/2 valve reliefs
3	Cast Piston	88-85	12221P1.00MM 1.00MM	Cast; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 28.5mm CD, 17.0mm Pin Dia., Flat Head w/2 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-86	E-550KC Std Only	1-1.20MM, 1-2.80MM
1	Premium Set	90-85	E-549KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
3	Premium Single Cylinder Set	90-86	WE-550KC Std Only	1-1.20MM, 1-2.80MM
3	Premium Single Cylinder Set	90-85	WE-549KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	6685M Std-.25-.50MM	
1	Thrust Washer Set	90-85	1063AF Std Only	
1	Rod Set	90-85	3-1140RA Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-85	224-43456	Without sensor
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	260-1640	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88-85	260-1637	Premium valve stem seals incl.
1	Head Bolt Set	90-89	260-2535	Replacement recommended
1	Head Bolt Set	88-85	260-2523	Replacement recommended

(continued on next page)



**1.0L 61 (993cc) SOHC L3 (6 Valve), 74mm Bore (Suzuki Eng.) 1990-85 1**  
 VIN Codes "M" 1985, "5" 1985-88, "6" 1989-2001, Eng. Code "G10" 1985-2001 (cont.)

<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	90-89	w/2 ring piston; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6348</b> <b>205-6348M</b>	----- -----
	90-89	w/3 ring piston; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6349</b> <b>205-6349M</b>	----- -----
	88-86	w/2 ring piston; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6346</b> <b>205-6346M</b>	----- -----
88-85	w/3 ring piston; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6347</b> <b>205-6347M</b>	----- -----	
<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90-89	VIN Code "6"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block	<b>BK-6101</b>	-----	

**1.0L 61 (993cc) SOHC Turbo L3 (6 Valve), 74mm Bore (Suzuki Eng.) 1990-87 2**  
 VIN Code "2" 1987-91, Eng. Code "G10-T" 1987-91

<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	90-89	<b>222-B166</b>	
	1	Timing Belt	88-87	<b>222-95</b>	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	3	Exhaust	90-87	<b>V-2334X</b> Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
	3	Intake	90-89	<b>V-4341</b> Std Only	Chrome plated stem; 1.3780" Head Dia., .2151" Stem Dia., 3.3130" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	90-89	<b>VG-816</b>	.2170" ID, 1.2600" O.A.L.
	6	Guide	88-87	<b>VG-817</b>	.2757" ID, 1.8950" O.A.L.
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Valve Stem Seal	90-89	<b>ST-2120</b>	Exh. & Int.; O.E. design; Positive type; Viton®	
6	Valve Stem Seal	88-87	<b>ST-2119</b>	Exh. & Int.; O.E. design; Positive type; Viton®	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
3	Exh.	90-87	<b>245-1187-52</b> Std Only	1.1945" OD, .9340" ID, .2570" Depth	
3	Int.	90-87	<b>245-1500-77</b> Std Only	1.235" ID top taper; 1.5000" OD, 1.1750" ID, .2360" Depth	
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90-87	<b>E-549KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
	3	Premium Single Cylinder Set	90-87	<b>WE-549KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	90-87	<b>6685M</b> Std-.25-.50MM	
	1	Thrust Washer Set	90-87	<b>1063AF</b> Std Only	Position 3
	1	Rod Set	90-87	<b>3-1140RA</b> Std-.25-.50-.75MM	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	90-87	<b>224-43456</b>	Without sensor
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-89	<b>260-1640</b>	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	90-89	<b>260-2535</b>	Replacement recommended	
1	Head Bolt Set	88-87	<b>260-2523</b>	Replacement recommended	
<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90-89	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6349</b> <b>205-6349M</b>	----- -----	

**1.4L 85 (1393cc) SOHC L4 (Chevrolet), 82mm Bore 1977-76 3**  
 VIN Code "I" 1976-77

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Lifter	77-76	<b>HT-2056</b> Std Only	Hyd. lash adj.
8	Lifter, Bulk	77-76	<b>HT-2056B</b> Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	77-76	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm, Bulk	77-76	<b>R-871B</b>	Carton of 64

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## 3 1.4L 85 (1393cc) SOHC L4 (Chevrolet), 82mm Bore 1977-76

(cont.) VIN Code "I" 1976-77

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	77-76	ST-2043	Exh.; Positive type; Rubber
4	Valve Stem Seal	77-76	ST-2044	Int.; Positive type; Rubber
4	Valve Stem Seal Bulk	77-76	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	77-76	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth
4	Int.	77-76	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	77-76	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	77-76	VK-216	1 groove
16	Keeper, Bulk	77-76	VK-216B	1 groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	77-76	E-359KC Std.-50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
1	Standard Set	77-76	E-359X Std.-50-.75-1.00MM	2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	77-76	WE-359KC Std.-.75-1.00MM	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	77-76	WE-359X.75MM .75-1.00MM	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	77-76	5060M Std.-.25-.50-.75MM	
1	Rod Set	77-76	4-3665P Std.-.25-.50-.75-1.00MM	
4	Rod Pair	77-76	3665P Std.-.25-.50-.75-1.00MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	77-76	224-4159	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	77-76	260-1021	Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	77-76	381-8040	
<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>
77-76	Premium valve stem seals incl.	Re-ring	205-657	205-157

## 4 1.5L 89.7 (1471cc) SOHC L4 (8 Valve), 77mm Bore (Isuzu Eng.) 1989-85

VIN Codes "K" 1985, "7" 1985-89, Eng. Code "4XC1" 1985-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	89-88	222-B162	
1	Timing Belt	87	222-B162	From 5/87
1	Timing Belt Tensioner	89-85	222-134BT	
1	Crank Sprocket	89-85	223-641	23 Teeth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	89-85	V-2336 Std Only	Chrome plated stem; 1.2200" Head Dia., .2740" Stem Dia., 4.1400" O.A.L.
4	Intake	89-85	V-2337 Std Only	Chrome plated stem; 1.4150" Head Dia., .2742" Stem Dia., 4.1400" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-85	VG-909	Exh.; .2762" ID, 1.9700" O.A.L.
4	Guide	89-85	VG-916	Int.; .2762" ID, 1.6950" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-85	VK-247	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	89-85	WE-546KC Std Only	1-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-85	6686MA Std.-.25-.50MM	A-Series aluminum bearings
1	Thrust Washer Set	89-85	1064AF Std Only	Position 3
1	Rod Set	89-85	4-1145CP Std.-.25-.50MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	88-85	381-8095	

## 5 1.5L 89.7 (1471cc) SOHC Turbo L4 (8 Valve), 77mm Bore (Isuzu Eng.) 1989-87

VIN Code "9" 1987-89, Eng. Code "4XC1-T" 1987-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88	222-B162	
1	Timing Belt	87	222-B162	From 5/87
1	Timing Belt Tensioner	88-87	222-134BT	
1	Crank Sprocket	88-87	223-641	23 Teeth

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**1.5L 89.7 (1471cc) SOHC Turbo L4 (8 Valve), 77mm Bore (Isuzu Eng.) 1989-87 5**

VIN Code "9" 1987-89, Eng. Code "4XC1-T" 1987-89 (cont.)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Intake	89-87	V-2337 Std Only	Chrome plated stem; 1.4150" Head Dia., .2742" Stem Dia., 4.1400" O.A.L.	
4	Guide	89-87	VG-909	Exh.; .2762" ID, 1.9700" O.A.L.	
4	Guide	89-87	VG-916	Int.; .2762" ID, 1.6950" O.A.L.	
16	Keeper	89-87	VK-247		
<b>B L O C K</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	89-87	E-545KC Std Only	2-1.20MM, 1-2.80MM
	1	Main Set	89-87	6686MA Std-.25-.50MM	<b>A-Series aluminum bearings</b>
	1	Thrust Washer Set	89-87	1064AF Std Only	
1	Rod Set	89-87	4-1145CP Std-.25-.50MM		
1	Brass Block Plug Kit	88-87	381-8095		

**1.6L 96.8 (1587cc) SOHC L4 (8 Valve), 81mm Bore (Toyota Eng.) 1988-85 6**

VIN Code "4" 1985-88, Eng. Code "4ALC" 1985-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	88-85	222-70		
1	Timing Belt Tensioner	88-85	222-66BT		
1	Timing Belt & Tensioner Set	88-85	BTS-70		
4	Exhaust	88-85	V-2255 Std Only	Nitrided stem; 1.2200" Head Dia., .2745" Stem Dia., 4.2120" O.A.L.	
4	Intake	88-85	V-2256 Std Only	Chrome plated stem; 1.4173" Head Dia., .2746" Stem Dia., 4.2120" O.A.L.	
4	Guide	88-85	VG-731	Exh.; .2764" ID, 1.9400" O.A.L.	
4	Guide	88-85	VG-732	Int.; .2764" ID, 1.6900" O.A.L.	
<b>B L O C K</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	88-85	E-456KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
	1	Standard Set	88-85	E-456X Std-.75-1.00MM	2-1.50MM, 1-2.80MM
	4	Premium Single Cylinder Set	88-85	WE-456KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
1	Main Set	88-85	6680MA Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>	
1	Thrust Washer Set	88-85	3926AF Std Only		Position 3
1	Rod Set	88-85	4-1025PA Std-.25-.50-.75MM		
1	Kit Gasket Set	88-86	260-1456	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Brass Block Plug Kit	88-85	381-8040		

<b>K I T S</b>	<b>RE-RING KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION		
	88-86	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	205-6127M	----
	88-86	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	205-6127	----

**1.6L 96.8 (1587cc) DOHC L4 (16 Valve), 81mm Bore (Toyota Eng.) 1990-88 7**

VIN Codes "5" 1988 & 1990-92, "6" 1989-97, Eng. Codes "4AFE" 1989-97, "4AGE" 1988 & 1990-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B176	VIN Code "5"
1	Timing Belt	90-89	222-36	VIN Code "6"
1	Timing Belt	88	222-112	Nova
1	Timing Belt Tensioner	90	222-66BT	VIN Codes "5" & "6"
1	Timing Belt Tensioner	89	222-66BT	VIN Code "6"
1	Timing Belt & Tensioner Set	90-89	BTS-36	
1	Timing Belt & Tensioner Set	88	BTS-70	
1	Crank Sprocket	90	223-2021	Prizm; 18 Teeth
16	Lifter	90-89	AT-6003 Std Only	VIN Codes "5" & "6"; Mech.
16	Lifter	88	AT-6003 Std Only	VIN Code "5"; Mech.

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## 7 1.6L 96.8 (1587cc) DOHC L4 (16 Valve), 81mm Bore (Toyota Eng.) 1990-88

(cont.) VIN Codes "5" 1988 & 1990-92, "6" 1989-97, Eng. Codes "4AFE" 1989-97, "4AGE" 1988 & 1990-92

QTY	CAMSHAFT/LIFTER		YEARS	PART NO.	DESCRIPTION				
	(cont.)								
1	Prelube		90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.				
QTY	VALVE		YEARS	PART NO.	DESCRIPTION				
	8	Exhaust				90-89	V-2575 Std Only	VIN Code "6"; .9640" Head Dia., .2350" Stem Dia., 3.6190" O.A.L.	
8	Intake		90-89	V-2574 Std Only	VIN Code "6"; 1.1820" Head Dia., .2355" Stem Dia., 3.6000" O.A.L.				
QTY	VALVE GUIDE		YEARS	PART NO.	DESCRIPTION				
	8	Guide				90-89	VG-914	Exh.; VIN Code "5"; .2345" ID, 1.7750" O.A.L.	
	8	Guide				90-89	VG-917	Exh.; VIN Code "5"; .2350" ID, 1.8500" O.A.L.	
	16	Guide				90-89	VG-913	Exh. & Int.; VIN Code "6"; .2370" ID, 1.5200" O.A.L.	
8	Guide		90-89	VG-915	Int.; VIN Code "5"; .2340" ID, 1.6510" O.A.L.				
QTY	VALVE SEAL		YEARS	PART NO.	DESCRIPTION				
16	Valve Stem Seal		90-89	ST-2079	Exh. & Int.; Positive type; Rubber				
QTY	VALVE SEAT		YEARS	PART NO.	DESCRIPTION				
4	Exh.		90-88	245-1125-51 Std Only	1.1320" OD, .8540" ID, .2370" Depth				
4	Int.		90-88	245-1250-54 Std Only	1.056" ID top taper; 1.2570" OD, 1.0100" ID, .2570" Depth				
QTY	VALVE, MISC		YEARS	PART NO.	DESCRIPTION				
32	Keeper		90-89	VK-242					
QTY	PISTON		YEARS	PART NO.	DESCRIPTION				
	4	Cast Piston				90	12764P Std-.50-.75-1.00MM	VIN Code "6"; Use w/E-540KC or E-540X ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep	
	4	Cast Piston				89	12764P Std-.50-.75-1.00MM	VIN Code "6"; Use w/E-540KC or E-540X ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep	
	4	Cast Piston - Individual				90	W12764P Std Only	VIN Code "6"; Use w/WE-540KC ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep	
4	Cast Piston - Individual	89	W12764P Std Only	VIN Code "6"; Use w/WE-540KC ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep					
QTY	RINGS		YEARS	PART NO.	DESCRIPTION				
	1	Premium Set				90	E-517KC Std-.50MM	VIN Code "5"; 1-1.20MM, 1-1.50MM, 1-2.80MM	
	1	Premium Set				90-88	E-540KC Std-.50-.75-1.00MM	VIN Code "6"; 2-1.50MM, 1-3.00MM	
	1	Standard Set				90-88	E-540X Std Only	VIN Code "6"; 2-1.50MM, 1-3.00MM	
	4	Premium Single Cylinder Set				90	WE-517KC Std Only	VIN Code "5"; 1-1.20MM, 1-1.50MM, 1-2.80MM	
4	Premium Single Cylinder Set	90-88	WE-540KC Std-.50MM	VIN Code "6"; 2-1.50MM, 1-3.00MM					
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION				
	1	Main Set				90-88	6680MA Std-.25-.50-.75MM	A-Series aluminum bearings	
	1	Thrust Washer Set				90-88	3926AF Std Only	Position 3	
	1	Rod Set				90-88	4-1025PA Std-.25-.50-.75MM	VIN Code "6"	
4	Rod Pair	90-88	4600P Std-.25MM	VIN Code "5"					
QTY	OIL PUMP		YEARS	PART NO.	DESCRIPTION				
1	Screen Assy.		90-88	224-14289					
QTY	GASKETS		YEARS	PART NO.	DESCRIPTION				
	1	Kit Gasket Set				90-89	260-1457	VIN Code "6"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set		88	260-1779	VIN Code "5"; Nova; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.				
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit		88	381-8040					
RE-YEAR	RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.			
	90	VIN Code "6"; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.					Re-ring w/Mains	205-6128M	----
	90	VIN Code "6"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.					Re-ring	205-6128	----
	89	VIN Code "6"; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.					Re-ring w/Mains	205-6128M	----
89	VIN Code "6"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6128	----					

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1.6L 96.8 (1587cc) DOHC L4 (16 Valve), 81mm Bore (Toyota Eng.) 1990-88 <b>7</b>				
VIN Codes "5" 1988 & 1990-92, "6" 1989-97, Eng. Codes "4AFE" 1989-97, "4AGE" 1988 & 1990-92 (cont.)				
OVERHAUL KIT			PREMIUM	ECONOMY
YEARS	DESCRIPTION		KIT NO.	KIT NO.
90-89	VIN Code "6"; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block	BK-6103	----
1.6L 96.9 (1588cc) DOHC L4 (16 Valve), 80mm Bore (Isuzu Eng.) 1990 <b>8</b>				
VIN Code "5" 1990-91, Eng. Code "4XE1W" 1990-91				
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90	V-4379X Std Only	Chrome plated stem; 1.1020" Head Dia., .2345" Stem Dia., 3.9770" O.A.L.
8	Intake	90	V-4354 Std Only	Chrome plated stem; 1.2200" Head Dia., .2350" Stem Dia., 3.9780" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90	VG-914	Exh.; .2345" ID, 1.7750" O.A.L.
4	Guide	90	VG-915	Int.; .2340" ID, 1.6510" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2079	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
4	Int.	90	245-1312-65 Std Only	1.3195" OD, 1.0600" ID, .2300" Depth
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-547KC1.00MM 1.00MM	2-1.20MM, 1-3.00MM
4	Premium Single Cylinder Set	90	WE-547KC Std Only	2-1.20MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7284M Std-.25MM	
1	Thrust Washer Set	90	4456F Std Only	Position 3
1	Rod Set	90	4-4455RA Std-.25MM	
1.6L 96.9 (1588cc) SOHC L4 (12 Valve), 80mm Bore (Isuzu Eng.) 1990 <b>9</b>				
VIN Code "6" 1990-93, Eng. Code "4XE1V" 1990-93				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B177	
1	Timing Belt Tensioner	90	222-347BT	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90	V-4353 Std Only	Chrome plated stem; 1.2600" Head Dia., .2346" Stem Dia., 4.1410" O.A.L.
8	Intake	90	V-4352 Std Only	Chrome plated stem; 1.1020" Head Dia., .2347" Stem Dia., 4.1020" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90	VG-917	Exh.; .2350" ID, 1.8500" O.A.L.
8	Guide	90	VG-915	Int.; .2340" ID, 1.6510" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
12	Exh.	90	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth
12	Int.	90	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90	584P Std Only	Storm; Cast; 2-1.20mm, 1-3.00mm Ring Groove, 1.119" CD, .7087" Pin Dia., Recessed Head .040" deep x 2.430" dia. w/4 valve reliefs
4	Cast Piston - Individual	90	W584P Std Only	Storm; Cast; 2-1.20mm, 1-3.00mm Ring Groove, 1.119" CD, .7087" Pin Dia., Recessed Head .040" deep x 2.430" dia. w/4 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-547KC1.00MM 1.00MM	2-1.20MM, 1-3.00MM
4	Premium Single Cylinder Set	90	WE-547KC Std Only	2-1.20MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7284M Std-.25MM	
1	Thrust Washer Set	90	4456F Std Only	Position 3
1	Rod Set	90	4-4455RA Std-.25MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-43617	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1638	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

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## 9 1.6L 96.9 (1588cc) SOHC L4 (12 Valve), 80mm Bore (Isuzu Eng.) 1990

(cont.) VIN Code "6" 1990-93, Eng. Code "4XE1V" 1990-93

RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		
90	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	205-6350	-----

## 10 1.6L 97.5 (1598cc) SOHC L4 (8 Valve), 79mm Bore (Opel Eng.) 1990-88

VIN Code "6" 1988-93

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
1	Timing Belt	90	222-B203	2nd design	VALVE TRAIN
1	Timing Belt & Tensioner Set	90-88	BTS-212		
<b>VALVE TRAIN</b>					
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90-88	CS-857		VALVE TRAIN
8	Lifter	90-88	HT-2056 Std Only	Hyd. lash adj.	
8	Lifter, Bulk	90-88	HT-2056B Std Only	Hyd. lash adj.; Carton of 128	VALVE TRAIN
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
4	Exhaust	90-88	V-2599 Std Only	Chrome plated stem; 1.2200" Head Dia., .2753" Stem Dia., 3.9790" O.A.L.	VALVE TRAIN
4	Intake	90-88	V-3917 Std Only	Chrome plated stem; 1.4960" Head Dia., .2757" Stem Dia., 3.9780" O.A.L.	
8	Spring	90-88	VS-1564	1.8200" Free Height	VALVE TRAIN
4	Rotocap	90-88	RC-166	Exh.	
<b>BLOCK</b>					
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-88	E-544KC Std Only	1-1.20MM, 1-1.50MM, 1-3.00MM	BLOCK
4	Premium Single Cylinder Set	90-88	WE-544KC Std Only	1-1.20MM, 1-1.50MM, 1-3.00MM	
1	Main Set	90-88	7218M Std-.25-.50MM		BLOCK
1	Rod Set	90-88	4-4210CP Std-.25-.50MM		
1	Kit Gasket Set	90-88	260-1770	Premium valve stem seals incl.	BLOCK
<b>RE-RING KIT</b>					
YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.		
90-88	Premium valve stem seals incl.	205-6910	-----	Re-ring	
		205-6910M	-----	Re-ring w/Mains	

## 11 1.6L 98 (1599cc) SOHC L4 (Chevrolet), 82mm Bore 1987-76

VIN Codes "C" 1982-87, "E" 1976-80, "J" 1978, "O" 1979-80, "9" 1980-82

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
1	Timing Belt	87-79	222-61		VALVE TRAIN
<b>VALVE TRAIN</b>					
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
8	Lifter	87-76	HT-2056 Std Only	Hyd. lash adj.	VALVE TRAIN
8	Lifter, Bulk	87-76	HT-2056B Std Only	Hyd. lash adj.; Carton of 128	
1	Prelube	87-76	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	VALVE TRAIN
8	Arm, Bulk	87-76	R-871B	Carton of 64	
8	Spring	87-80	VS-794	2nd design; 1.5400" Free Height	VALVE TRAIN
<b>VALVE TRAIN</b>					
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Valve Stem Seal	87-76	ST-2043	Exh.; Positive type; Rubber	VALVE TRAIN
4	Valve Stem Seal	87-76	ST-2044	Int.; Positive type; Rubber	
4	Valve Stem Seal Bulk	87-76	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber	VALVE TRAIN
4	Exh.	87-76	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth	
4	Int.	87-76	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth	VALVE TRAIN
4	Int.	87-76	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	
16	Keeper	87-76	VK-216	1 groove	VALVE TRAIN
16	Keeper, Bulk	87-76	VK-216B	1 groove; Carton of 1000	
<b>BLOCK</b>					
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	87-79	474P1.00MM 1.00-1.50MM	Chevette; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.473" CD, .9055" Pin Dia., Recessed Head .024" deep x 2.375" dia. - 8.6:1 C.R.	BLOCK
1	Premium Set	87-84	E-427K Std-.50MM	2-1.50MM, 1-4.00MM	

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<b>1.6L 98 (1599cc) SOHC L4 (Chevrolet), 82mm Bore 1987-76 11</b> VIN Codes "C" 1982-87, "E" 1976-80, "J" 1978, "O" 1979-80, "9" 1980-82 (cont.)						
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	83-76	<b>E-358K</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM	
	1	Standard Set	83-76	<b>E-358X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	87-84	<b>WE-427K</b> Std Only	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	83-76	<b>WE-358K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	87-76	<b>5060M</b> Std-.25-.50-.75MM		
	1	Rod Set	87-76	<b>4-3665P</b> Std-.25-.50-.75-1.00MM		
	4	Rod Pair	87-76	<b>3665P</b> Std-.25-.50-.75-1.00MM		
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	87-76	<b>224-4159</b>			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	87-76	<b>260-1021</b>	Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	87-76	<b>381-8040</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	87-84	Premium valve stem seals incl.	Re-ring	<b>205-720</b>	----	
			Re-ring w/Mains	<b>205-720M</b>	----	
		Re-ring	<b>205-649</b>	----		
		Re-ring w/Mains	<b>205-649M</b>	----		
<b>1.8L 109.5 (1796cc) SOHC L4 (8 Valve), 84.8mm Bore (Opel Eng.) 1986-82 12</b> VIN Code "O" 1982-86						
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	86-82	<b>222-81</b>	111 teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	86-82	<b>CS-778</b>		
	8	Lifter	86-82	<b>HT-2056</b> Std Only	Hyd. lash adj.	
	8	Lifter, Bulk	86-82	<b>HT-2056B</b> Std Only	Hyd. lash adj.; Carton of 128	
	1	Prelube	86-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	86-82	<b>KC-778</b>	Hyd. lash adj.; Incl. (1) CS-778, (8) HT-2056, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	86-82	<b>KCT-778</b>	Hyd. lash adj.; Incl. 111 tooth timing belt; Incl. (1) CS-778, (8) HT-2056, (1) 222-81, (1) 55-403B	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Arm	86-82	<b>R-909</b>			
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	86-82	<b>VK-216</b>	1 groove		
16	Keeper, Bulk	86-82	<b>VK-216B</b>	1 groove; Carton of 1000		
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Premium Single Cylinder Set	86-82	<b>WE-448KC</b> Std-.50-.75-1.00MM	1-1.50MM, 1-1.75MM, 1-4.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	86-82	<b>7108M</b> Std-.25-.50-.75MM		
	1	Rod Set	86-82	<b>4-1490CPA</b> Std-.25-.50-.75MM		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Tool	86-82	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Head Bolt Set	86-82	<b>260-2502</b>	Replacement req'd.		
<b>1.8L 109.5 (1796cc) SOHC Turbo L4 (8 Valve), 84.8mm Bore (Opel Eng.) 1986-84 13</b> VIN Code "J" 1984-86						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Timing Belt	86-84	<b>222-81</b>	111 teeth		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Lifter	86-84	<b>HT-2056</b> Std Only	Hyd. lash adj.		
8	Lifter, Bulk	86-84	<b>HT-2056B</b> Std Only	Hyd. lash adj.; Carton of 128		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Arm	86-84	<b>R-909</b>			
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	86-84	<b>VK-216</b>	1 groove		

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## 13 1.8L 109.5 (1796cc) SOHC Turbo L4 (8 Valve), 84.8mm Bore (Opel Eng.) 1986-84

(cont.) VIN Code "J" 1984-86

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Keeper, Bulk	86-84	VK-216B	1 groove; Carton of 1000
4	Premium Single Cylinder Set	86-84	WE-448KC Std-.50-.75-1.00MM	1-1.50MM, 1-1.75MM, 1-4.00MM
1	Main Set	86-84	7108M Std-.25-.50-.75MM	
1	Rod Set	86-84	4-1490CPA Std-.25-.50-.75MM	
1	Tool	86-84	MT-J21882	Pump screen installation tool for 5/8" tube
1	Head Bolt Set	86-84	260-2502	Replacement req'd.

## 14 1.8L 110.8 (1817cc) SOHC Diesel L4 (8 Valve), 84mm Bore (Isuzu Eng.) 1986-81

VIN Code "D" 1981-86, Eng. Code "4FB1" 1981-86

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	86-81	222-76	
8	Valve Stem Seal	86-83	ST-2034	Positive type; Viton®
1	Pin Bushing Set	86-82	4-67314Y	
1	Thrust Washer Set	86-82	3571BF Std Only	Position 3

## 15 1.8L 112 (1835cc) OHV L4 (Chevrolet), 89mm Bore 1982

VIN Code "G" 1982

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	82	HT-817 Std Only	Hyd.
8	Lifter, Bulk	82	HT-817B Std Only	Hyd.; Carton of 128
8	Push Rod	82	RP-3231	7.2060" O.A.L.
8	Push Rod, Bulk	82	BRP-3231	Carton of 100; 7.2060" O.A.L.
8	Arm Assy.	82	R-881	Incl. arm, ball & nut
8	Arm Assy., Bulk	82	R-881B	Incl. arm, ball & nut; Carton of 64
8	Arm	82	R-881A	
8	Pivot Ball	82	MR-1838	
8	Nut	82	MR-1837	
8	Stud	82	MR-1883	
8	Spring	82	VS-727	Incl. damper; 1.9100" Free Height
8	Spring, Bulk	82	VS-727B	Incl. damper; Carton of 250; 1.9100" Free Height
4	Valve Stem Seal	82	ST-2043	Exh.; Positive type; Rubber
4	Valve Stem Seal	82	ST-2044	Int.; Positive type; Rubber
4	Valve Stem Seal Bulk	82	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber
4	Exh.	82	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
4	Exh.	82	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
4	Int.	82	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
4	Int.	82	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
16	Keeper	82	VK-216	1 groove
16	Keeper, Bulk	82	VK-216B	1 groove; Carton of 1000
1	Standard Set	82	E-412X Std Only	1-1.50MM, 1-2.00MM, 1-4.76MM
1	Rod Set	82	4-2020CP Std-1-10-20-30-40	
4	Rod Pair	82	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	82	1485M Std-2	Full round design
1	Cam Set	82	1786M Std Only	O.E. split type design
1	Oil Pump	82	224-4151	
1	Inter. Shaft	82	224-6151	

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1.8L 112 (1835cc) OHV L4 (Chevrolet), 89mm Bore 1982 <b>15</b> VIN Code "G" 1982 (cont.)				
QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
1	Oil Pump Shaft Guide	82	224-43351	Nylon
1	Tool	82	MT-J21882	Pump screen installation tool for 5/8" tube
2.0L 121 (1989cc) OHV L4 (Chevrolet), 89mm Bore 1989-83 <b>16</b> VIN Codes "B" 1983-84, "P" 1983-86, "1" 1987-89				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	89-83	KT3-370S	Incl. silent type chain; Incl. (1) 222-370, (1) 223-549, (1) 223-558
1	Timing Chain	89-83	222-370	Silent type; 58 Links
1	Timing Chain Tensioner	89-83	222-115CT	
1	Crank Sprocket	89-83	223-549	20 Teeth
1	Cam Sprocket	89-83	223-558	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-87	CS-811	
8	Lifter	89-83	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter, Bulk	89-83	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	89-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	89-87	KC-811	Hyd.; Incl. (1) CS-811, (8) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	KCT-811	Hyd.; Incl. silent type chain; Incl. (1) CS-811, (8) HT-969, (1) KT3-370S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	89-87	RP-3282	7.7010" O.A.L.
8	Push Rod	86-83	RP-3231	7.2060" O.A.L.
8	Push Rod, Bulk	86-83	BRP-3231	Carton of 100; 7.2060" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	89-87	R-1090	Incl. arm, ball & nut
8	Arm Assy.	86-83	R-881	Incl. arm, ball & nut
8	Arm Assy., Bulk	86-83	R-881B	Incl. arm, ball & nut; Carton of 64
8	Arm	89-87	R-1090A	
8	Arm	86-83	R-881A	
8	Pivot Ball	89-87	MR-1841	Hole I.D. .4745"
8	Pivot Ball	86-83	MR-1838	
8	Nut	89-87	MR-1882	8MM x 1.25MM Thread
8	Nut	86-83	MR-1837	
8	Pivot	89-87	MR-1926	
8	Stud	86-83	MR-1883	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	89-87	V-2442 Std Only	Chrome plated stem; 1.4567" Head Dia., .3132" Stem Dia., 5.1650" O.A.L.
4	Intake	89-87	V-2443 Std Only	Chrome plated stem; 1.6929" Head Dia., .3136" Stem Dia., 5.4560" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-83	VG-1320	Exh.; w/Alum. heads; .3150" ID, 2.3200" O.A.L.
4	Guide	89-83	VG-1319	Int.; w/Alum. heads; .3150" ID, 2.7700" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
4	Spring	89-87	VS-907	2.0980" Free Height
4	Spring	86-83	VS-727	Incl. damper; 1.9100" Free Height
4	Spring, Bulk	86-83	VS-727B	Incl. damper; Carton of 250; 1.9100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	89-83	ST-2043	Exh.; Positive type; Rubber
4	Valve Stem Seal	89-83	ST-2044	Int.; Positive type; Rubber
4	Valve Stem Seal Bulk	89-83	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	89-87	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	89-87	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	89-87	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
4	Int.	89-87	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
4	Exh.	86-83	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
4	Exh.	86-83	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
4	Int.	86-83	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
4	Int.	86-83	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-83	VK-216	1 groove
16	Keeper, Bulk	89-83	VK-216B	1 groove; Carton of 1000

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# GM Car

## 16 2.0L 121 (1989cc) OHV L4 (Chevrolet), 89mm Bore 1989-83

(cont.) VIN Codes "B" 1983-84, "P" 1983-86, "1" 1987-89

QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	89-87	540P1.00MM 1.00MM	VIN Code "1"; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.297" CD, .8001" Pin Dia., Recessed Head .210" deep x 3.000" dia. - 9.0:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	89-87	E-477K Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM	
1	Premium Set	86-85	E-429K Std-1.00MM	2-1.50MM, 1-4.76MM	
1	Premium Set	84-83	E-428K.75MM .75-1.00-1.50MM	2-1.50MM, 1-4.76MM	
1	Standard Set	89-87	E-477X Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM	
1	Standard Set	86-85	E-429X Std-.75-1.00MM	2-1.50MM, 1-4.76MM	
1	Standard Set	84-83	E-428X Std Only	2-1.50MM, 1-4.76MM	
4	Premium Single Cylinder Set	89-87	WE-477K Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM	
4	Premium Single Cylinder Set	86-85	WE-429K Std-.75-1.00MM	2-1.50MM, 1-4.76MM	
4	Premium Single Cylinder Set	84-83	WE-428K.75MM .75-1.00MM	2-1.50MM, 1-4.76MM	
4	Standard Single Cylinder Set	86-85	WE-429X Std-.75-1.00MM	2-1.50MM, 1-4.76MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	89-87	7047MA Std-.25-.50-.75MM	A-Series aluminum bearings	
1	Main Set	86-83	5138MA Std-.25-.50-.75MM	A-Series aluminum bearings	
1	Rod Set	89-83	4-2020CP Std-1-10-20-30-40		
4	Rod Pair	89-83	2020CP Std-1-2-10-20-30-40-50		
1	Cam Set	89-83	1485M Std-2	Full round design	
1	Cam Set	89-83	1786M Std Only	O.E. split type design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	89-83	224-4151		
1	Inter. Shaft	89-83	224-6151		
1	Oil Pump Shaft Guide	89-83	224-43351	Nylon	
1	Tool	89-83	MT-J21882	Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	89-87	260-1227	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86-85	260-1180	w/11mm thick one-piece rear main brg. seal; Exh. pipe packing not incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-85	381-8054		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
89-87	Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring w/Mains	205-6006M	----
89-87	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6006	----
86-85	w/11mm thick one-piece rear main brg. seal; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; Premium valve stem seals incl.		Re-ring w/Mains	205-771M	----
86-85	w/11mm thick one-piece rear main brg. seal; Exh. pipe packing not incl.; Premium valve stem seals incl.		Re-ring	205-771	----
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
89-87	Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. silent type chain		Master w/o Pistons	MK-6006A	----
89-87	VIN Code "1"; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Master	MKP-6006A	----
89-87	VIN Code "1"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Master w/o Rods & Mains	505-6006A	----

## 17 2.0L 122 (1998cc) SOHC L4 (8 Valve), 86mm Bore (Opel Eng.) 1990-87

VIN Codes "H" 1992-94, "K" 1987-91

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-81	111 teeth
1	Timing Belt	90-89	222-B163	125 teeth
1	Timing Belt	88-87	222-81	111 teeth

(continued on next page)

**2.0L 122 (1998cc) SOHC L4 (8 Valve), 86mm Bore (Opel Eng.) 1990-87 17**

VIN Codes "H" 1992-94, "K" 1987-91 (cont.)

<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Lifter	90-87	<b>HT-2056</b> Std Only	Hyd. lash adj.
	8	Lifter, Bulk	90-87	<b>HT-2056B</b> Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Arm	90-87	<b>R-909</b>	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	90-87	<b>V-3949</b> Std Only	Chrome plated stem; 1.4390" Head Dia., .2750" Stem Dia., 4.0750" O.A.L.
	4	Intake	90-87	<b>V-2532</b> Std Only	Chrome plated stem; 1.6900" Head Dia., .2757" Stem Dia., 4.0880" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	90-87	<b>VG-1318</b>	.2771" ID, 1.7900" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	90-87	<b>VS-1563</b>	1.8250" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	90-87	<b>ST-2105</b>	Positive type; Rubber	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90-87	<b>245-1500-62</b> Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
4	Int.	90-87	<b>245-1812-54</b> Std Only	1.8195" OD, 1.4050" ID, .3150" Depth	
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston	90-87	<b>H565P.50MM</b> .50-.75MM	Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.162" CD, .8267" Pin Dia., Recessed Head .130" deep x 2.785" dia. - 8.8:1 C.R.
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90-87	<b>E-539KC</b> Std-.50-.75MM	2-1.50MM, 1-3.00MM
	1	Standard Set	90-87	<b>E-539X</b> Std-.50-.75MM	2-1.50MM, 1-3.00MM
	4	Premium Single Cylinder Set	90-87	<b>WE-539KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	90-87	<b>7108M</b> Std-.25-.50-.75MM	
	1	Rod Set	90-87	<b>4-1490CPA</b> Std-.25-.50-.75MM	
	4	Rod Pair	90-87	<b>1490CPA</b> Std-.25-.50-.75MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	90-87	<b>224-43507</b>		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90-87	<b>260-1459</b>	Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	90-87	<b>260-2502</b>	Replacement req'd.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	90-87	<b>381-8087</b>		
<b>RE-RING KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	
90-87	Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6130</b>	
		Re-ring w/Mains		<b>205-6130M</b>	
				<b>205-1130</b>	
				<b>205-1130M</b>	

**2.0L 122 (1998cc) SOHC Turbo L4 (8 Valve), 86mm Bore (Opel Eng.) 1990-87 18**

VIN Code "M" 1987-90

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-89	<b>222-81</b>	111 teeth
1	Timing Belt	90-89	<b>222-B163</b>	125 teeth
1	Timing Belt	88-87	<b>222-81</b>	111 teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	90-87	<b>CS-838</b>	
8	Lifter	90-87	<b>HT-2056</b> Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-87	<b>HT-2056B</b> Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm	90-87	<b>R-909</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	90-87	<b>V-3949</b> Std Only	Chrome plated stem; 1.4390" Head Dia., .2750" Stem Dia., 4.0750" O.A.L.

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## 18 2.0L 122 (1998cc) SOHC Turbo L4 (8 Valve), 86mm Bore (Opel Eng.) 1990-87

(cont.) VIN Code "M" 1987-90

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
4	Intake	90-87	V-2532 Std Only	Chrome plated stem; 1.6900" Head Dia., .2757" Stem Dia., 4.0880" O.A.L.
8	VALVE GUIDE Guide	90-87	VG-1318	.2771" ID, 1.7900" O.A.L.
8	VALVE SEAL Valve Stem Seal	90-87	ST-2105	Positive type; Rubber
4	VALVE SEAT Exh.	90-87	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
4	Int.	90-87	245-1812-54 Std Only	1.8195" OD, 1.4050" ID, .3150" Depth
1	RINGS Premium Set	90-87	E-539KC Std-.50-.75MM	2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90-87	WE-539KC Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
1	ENGINE BEARINGS Main Set	90-87	7108M Std-.25-.50-.75MM	
1	Rod Set	90-87	4-1490CPA Std-.25-.50-.75MM	
4	Rod Pair	90-87	1490CPA Std-.25-.50-.75MM	
1	OIL PUMP Oil Pump	90-87	224-43507	
1	GASKETS Kit Gasket Set	90-87	260-1643	Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl. Replacement req'd.
1	Head Bolt Set	90-87	260-2502	
1	FREEZE PLUGS Brass Block Plug Kit	90-87	381-8087	
RE-RING KIT				
YEARS	DESCRIPTION			PREMIUM KIT NO.
90-87	Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6352
		Re-ring w/Mains		205-6352M
				ECONOMY KIT NO. -----

## 19 2.0L 122 (1999cc) DOHC L4 (Cosworth), 89mm Bore 1976-75

VIN Codes "E" 1975, "0" 1975-76

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	76-75	4-2020CP Std-1-10-20-30-40	
4	Rod Pair	76-75	2020CP Std-1-2-10-20-30-40-50	

## 20 2.2L 134 (2189cc) OHV L4 (Chevrolet), 89mm Bore 1990

VIN Codes "G" 1990-91, "4" 1992-2002

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	KT3-370S	Incl. silent type chain; Incl. (1) 222-370, (1) 223-549, (1) 223-558
1	Timing Chain	90	222-370	Silent type; 58 Links
1	Timing Chain Tensioner	90	222-115CT	
1	Crank Sprocket	90	223-549	20 Teeth
1	Cam Sprocket	90	223-558	40 Teeth
1	CAMSHAFT/LIFTER Camshaft	90	CS-811	
8	Lifter	90	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter, Bulk	90	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	CAM KIT Cam/Lifter Kit	90	KC-811	Hyd.; Incl. (1) CS-811, (8) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	KCT-811	Hyd.; Incl. silent type chain; Incl. (1) CS-811, (8) HT-969, (1) KT3-370S, (1) 55-403B
8	PUSH ROD Push Rod	90	RP-3282	7.7010" O.A.L.
8	ROCKER PARTS Arm Assy.	90	R-1090	Incl. arm, ball & nut
8	Arm	90	R-1090A	
8	Pivot Ball	90	MR-1841	Hole I.D. .4745"
8	Nut	90	MR-1882	8MM x 1.25MM Thread
8	Pivot	90	MR-1926	

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**2.2L 134 (2189cc) OHV L4 (Chevrolet), 89mm Bore 1990 20**

VIN Codes "G" 1990-91, "4" 1992-2002 (cont.)

VALVE TRAIN		QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
VALVE TRAIN	4	Exhaust	90	V-2442	Std Only	Chrome plated stem; 1.4567" Head Dia., .3132" Stem Dia., 5.1650" O.A.L.		
	4	Intake	90	V-2443	Std Only	Chrome plated stem; 1.6929" Head Dia., .3136" Stem Dia., 5.4560" O.A.L.		
	4	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION			
	4	Guide	90	VG-1320	Exh.; .3150" ID, 2.3200" O.A.L.			
	4	Guide	90	VG-1319	Int.; .3150" ID, 2.7700" O.A.L.			
	8	VALVE SPRING	YEARS	PART NO.	DESCRIPTION			
		Spring	90	VS-907	Exh. & Int.; 2.0980" Free Height			
	4	VALVE SEAL	YEARS	PART NO.	DESCRIPTION			
	4	Valve Stem Seal	90	ST-2090	Exh.; Positive type; Fluoroelastomer			
	4	Valve Stem Seal	90	ST-2044	Int.; 1st design; Eighth digit Cast. No. not followed by an "S"; Positive type; Rubber			
4	VALVE SEAT	YEARS	PART NO.	DESCRIPTION				
4	Exh.	90	245-1562-66	Std Only	1.5695" OD, 1.2650" ID, .2800" Depth			
4	Int.	90	245-1812-55	Std Only	1.8195" OD, 1.5000" ID, .2780" Depth			
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION				
16	Keeper	90	VK-216	Exh. & Int.; 1 groove				
16	Keeper, Bulk	90	VK-216B	Exh. & Int.; 1 groove; Carton of 1000				
BLOCK	4	PISTON	YEARS	PART NO.	DESCRIPTION			
	4	Cast Piston	90	569P	Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.162" CD, .8001" Pin Dia., Recessed Head .225" deep x 2.920" dia.		
	4	Cast Piston - Individual	90	W569P	Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.162" CD, .8001" Pin Dia., Recessed Head .225" deep x 2.920" dia.		
	1	RINGS	YEARS	PART NO.	DESCRIPTION			
	1	Premium Set	90	E-531K	Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM		
	1	Standard Set	90	E-531X	Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM		
	4	Premium Single Cylinder Set	90	WE-531K	Std-.50-.75MM	2-1.50MM, 1-3.00MM		
	4	Standard Single Cylinder Set	90	WE-531X	Std-.50-.75MM	2-1.50MM, 1-3.00MM		
	1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
	1	Main Set	90	7047MA	Std-.25-.50-.75MM	A-Series aluminum bearings		
	1	Rod Set	90	4-2020CP	Std-1-10-20-30-40			
	4	Rod Pair	90	2020CP	Std-1-2-10-20-30-40-50			
	1	Cam Set	90	1485M	Std-2	Full round design		
1	Cam Set	90	1786M	Std Only	O.E. split type design			
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION				
1	Oil Pump	90	224-4151					
1	Inter. Shaft	90	224-6151					
1	Oil Pump Shaft Guide	90	224-43351		Nylon			
1	GASKETS	YEARS	PART NO.	DESCRIPTION				
1	Kit Gasket Set	90	260-1227		Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Head Bolt Set	90	260-2530		Replacement recommended			
KITS	RE-RING KIT					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	90	Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6131M	205-1131M		
	90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6131	205-1131		
	OVERHAUL KIT					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. A-Series aluminum bearings	Block		BK-6006	----		
90	Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master Master w/o Pistons		MKP-6131A MK-6131A	MKP-1131A MK-1131A			
90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains		505-6131A	505-1131A			
2.3L 138 (2260cc) DOHC L4 (16 Valve/Olds.), 92mm Bore 1990-87 21								
1	TIMING	YEARS	PART NO.	DESCRIPTION				
1	3 Piece Set	90-87	KT3-D130SA	1st design; Incl. (1) 222-D130, (1) 223-653, (2) 223-692				

(continued on next page)

# GM Car

## 21 2.3L 138 (2260cc) DOHC L4 (16 Valve/Olds.), 92mm Bore 1990-87

(cont.) VIN Codes "A" 1989-94 (Quad 4 H.O.), "D" 1987-95 (Quad 4)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	90-88	222-D130	1st design; Double rlr.; 130 Links
1	Timing Chain	90-87	222-383	2nd design; Inverted tooth; 130 Links
1	Timing Chain Tensioner	90-88	222-188CT	1st design; Use w/222-268GP
1	Timing Chain Tensioner	90-87	222-268GP	1st design; Use w/222-188CT; Tensioner shoe
1	Timing Chain Tensioner	90-87	222-294CT	2nd design; Inverted tooth
1	Timing Chain Guide	90-88	222-305GP	L.H.; 2nd design
1	Timing Chain Guide	90-88	222-304GP	R.H.; 2nd design
1	Timing Chain Guide	90-88	222-306GP	Upper; 2nd design
1	Crank Sprocket	90-88	223-653	1st design; 19 Teeth
1	Crank Sprocket	90-88	223-747	2nd design; 19 Teeth
2	Cam Sprocket	90-88	223-692	1st design; 38 Teeth
2	Cam Sprocket	90-88	223-734	2nd design; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-832	Exh.; VIN Code "D"
1	Camshaft	90-89	CS-831	Int.; VIN Code "D"
1	Camshaft	88-87	CS-832	Exh.; VIN Code "D"
1	Camshaft	88-87	CS-831	Int.; VIN Code "D"
16	Lifter	90-87	HT-2236 Std Only	Hyd. bucket type lifter
16	Lifter, Bulk	90-87	HT-2236B Std Only	Hyd. bucket type lifter; Carton of 192
1	Prelube	90-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-87	KC-832	Exh.; VIN Code "D"; Hyd.; Incl. (1) CS-832, (8) HT-2236, (1) 55-403B
1	Cam/Lifter Kit	90-87	KC-831	Int.; VIN Code "D"; Hyd.; Incl. (1) CS-831, (8) HT-2236, (1) 55-403B
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-89	V-2612 Std-15	VIN Codes "A" & "D"; 2nd design; Chrome plated stem; 1.2390" Head Dia., .2745" Stem Dia., 4.3080" O.A.L.
8	Exhaust	89-87	V-2610 Std Only	VIN Code "D"; 1st design; Chrome plated stem; 1.1810" Head Dia., .2743" Stem Dia., 4.3110" O.A.L.
8	Exhaust, Bulk	90-89	V-2612B Std-15	VIN Codes "A" & "D"; 2nd design; Chrome plated stem; Carton of 25; 1.2390" Head Dia., .2745" Stem Dia., 4.3080" O.A.L.
8	Intake	90-89	V-2613 Std-15	VIN Codes "A" & "D"; 2nd design; Chrome plated stem; 1.4410" Head Dia., .2750" Stem Dia., 4.3280" O.A.L.
8	Intake	89-87	V-2611 Std Only	VIN Code "D"; 1st design; Chrome plated stem; 1.4000" Head Dia., .2748" Stem Dia., 4.3330" O.A.L.
8	Intake, Bulk	90-89	V-2613B Std-15	VIN Codes "A" & "D"; 2nd design; Chrome plated stem; Carton of 25; 1.4410" Head Dia., .2750" Stem Dia., 4.3280" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-88	VS-1530	Exh. & Int.; 1.7800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-88	ST-2117	Exh. & Int.; O.E. design; Positive type
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-89	VK-292	Exh. & Int.
16	Rotocap	90-88	RC-164	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-88	H566P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .8661" Pin Dia., Recessed Head .120" deep x 2.895" dia. - 9.5:1 C.R.
4	Cast Piston - Individual	90-88	WH566P Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.241" CD, .8661" Pin Dia., Recessed Head .120" deep x 2.895" dia. - 9.5:1 C.R.
4	Pin Bushing	90-88	1544Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	E-535K Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
1	Standard Set	90-87	E-535X Std-.50-.75-1.00MM	2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90-87	WE-535K Std-.50-.75MM	2-1.50MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-87	7054MA Std-.25-.50-.75MM	A-Series aluminum bearings
1	Rod Set	90-87	4-1540A Std-.25-.50-.75MM	A-Series aluminum bearings
4	Rod Pair	90-87	1540A Std-.25-.50-.75MM	A-Series aluminum bearings
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-89	224-43435	
1	Oil Pump	88-87	224-43435	2nd design; w/sheet metal gear cover; Must reuse sheet metal gear cover
1	Screen Assy.	90-89	224-14279	VIN Codes "A" & "D"

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**2.3L 138 (2260cc) DOHC L4 (16 Valve/Olds.), 92mm Bore 1990-87 21**

VIN Codes "A" 1989-94 (Quad 4 H.O.), "D" 1987-95 (Quad 4) (cont.)

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	90-87	260-1460	1st design; Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Head Bolt Set	90-87	260-2506	Replacement recommended		
<b>RE-RING KIT</b>						
YEARS	DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
90-87	1st design; Head bolts not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Re-ring	205-6132	205-1132
				Re-ring w/Mains	205-6132M	205-1132M
<b>OVERHAUL KIT</b>						
YEARS	DESCRIPTION				PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	VIN Code "D"; 1st design; Head bolts not incl.; Exh. pipe packing not incl.; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master	MKP-6132C	----
				Master w/o Pistons	MK-6132C	----
90-89	VIN Code "D"; 1st design; Head bolts not incl.; Exh. pipe packing not incl.; Freeze plugs not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			Master w/o Rods & Mains	505-6132C	----
90-88	1st design; Head bolts not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>			Block	BK-6011	----

**2.3L 140 OHV H6 (Corvaire), 3.375" Bore 1960 22**

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
12	Lifter	60	HT-817 Std Only	Hyd.		
12	Lifter, Bulk	60	HT-817B Std Only	Hyd.; Carton of 128		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
12	Push Rod	60	RP-3077	10.2850" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
1	Pivot Ball	60	MR-1783			
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
12	Guide	60	VG-6182	.3435" ID, 2.2200" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
12	Spring	60	VS-521	Incl. damper; 2.1090" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
12	Valve Stem Seal	60	ST-2012	Positive type; PTFE		
12	Valve Stem Seal Bulk	60	ST-2012BC	Positive type; Carton of 100; PTFE		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
24	Keeper	60	VK-115	1 groove; Square cut key groove		
24	Keeper	60	VK-115R	1 groove; Square cut key groove; Hardened		
24	Keeper, Bulk	60	VK-115B	1 groove; Square cut key groove; Carton of 1000		
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION		
6	Repair Sleeve	60	SL-13M Std Only	3/32" wall, must be cut to correct length		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	60	4063M Std-10	Full flanged brgs.		
1	Rod Set	60	6-2385CP Std-10			
6	Rod Pair	60	2385CP Std-10			

**2.3L 140 SOHC L4 (Chevrolet), 3.5" Bore 1977-71 23**

VIN Codes "A" 1971-76, "B" 1971-77

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	75-71	VS-677	Incl. damper; 2.0300" Free Height		
8	Spring, Bulk	75-71	VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	77-71	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE		
4	Valve Stem Seal	77-71	MV-1888C	Int.; O.E. design; Positive type; Viton®		
8	Valve Stem Seal Bulk	77-71	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
4	Valve Stem Seal Bulk	77-71	MV-1888	Int.; O.E. design; Positive type; Carton of 50; Viton®		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Exh.	77-71	245-1437-1 Std Only	1.4420" OD, 1.2500" ID, .2160" Depth		

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## 23 2.3L 140 SOHC L4 (Chevrolet), 3.5" Bore 1977-71

(cont.) VIN Codes "A" 1971-76, "B" 1971-77

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
4	Int.	77-71	245-1750-1N Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
4	Int.	77-71	245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	77-71	VK-115	1 groove; Square cut key groove
16	Keeper	77-71	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	77-71	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	77-71	259-203C	.015"; Carton of 100
8	Spring Insert	77-71	259-203B	.030"; Carton of 100
8	Spring Insert	77-71	259-203BRS	.030"; Carton of 500
8	Spring Insert	77-71	259-203A	.060"; Carton of 100
8	Spring Insert	77-71	259-203ARS	.060"; Carton of 500
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	77-71	4-2020CP Std-1-10-20-30-40	
4	Rod Pair	77-71	2020CP Std-1-2-10-20-30-40-50	

## 24 2.4L 145 OHV H6 (Corvair), 3.4375" Bore 1963-61

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	63-61	HT-817 Std Only	Hyd.
12	Lifter, Bulk	63-61	HT-817B Std Only	Hyd.; Carton of 128
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	63-61	RP-3077	10.2850" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Pivot Ball	63-61	MR-1783	
12	Nut	63-61	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	63-61	VG-6182	.3435" ID, 2.2200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	63-61	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	63-61	ST-2012	Positive type; PTFE
12	Valve Stem Seal Bulk	63-61	ST-2012BC	Positive type; Carton of 100; PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	63-61	VK-115	1 groove; Square cut key groove
24	Keeper	63-61	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	63-61	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	63-61	SL-14M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-61	4063M Std-10	Full flanged brgs.
1	Rod Set	63-61	6-2385CP Std-10	
6	Rod Pair	63-61	2385CP Std-10	

## 25 2.4L 145 OHV Turbo H6 (Corvair), 3.4375" Bore 1963

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	63	RP-3077	10.2850" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	63	VG-6182	.3435" ID, 2.2200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	63	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	63	ST-2012	Positive type; PTFE
12	Valve Stem Seal Bulk	63	ST-2012BC	Positive type; Carton of 100; PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	63	VK-115	1 groove; Square cut key groove
24	Keeper	63	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	63	VK-115B	1 groove; Square cut key groove; Carton of 1000

## 26 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77

VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, "5" 1979-83, "9" 1978-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-87	KT3-378S	VIN Code "U"; Incl. (1) 222-378, (1) 223-690, (1) 223-695
1	Gear Set	90-80	221-2542LS	VIN Code "R"; Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542

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**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77 26**

VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, (cont.)  
"5" 1979-83, "9" 1978-79

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Gear Set	89-85	221-2544S	VIN Code "U"; Incl. (1) 221-2537, (1) 221-2544
1	Gear Set	86-82	221-2542LS	VIN Codes "F" & "2"; Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542
1	Gear Set	79-77	221-2542LS	Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542
1	Chain Damper	90	222-186CT	VIN Code "U"
1	Crank Sprocket	90-87	223-695	VIN Code "U"; 21 Teeth
1	Crank Gear	90-80	221-2537	VIN Code "R"; 27 Teeth
1	Crank Gear	86-82	221-2537	VIN Codes "F" & "2"; 27 Teeth
1	Crank Gear	79-77	221-2537	27 Teeth
1	Cam Gear	89-85	221-2544	VIN Code "U"; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-1507	VIN Code "R"
1	Camshaft	89	CS-782	VIN Code "R"
1	Camshaft	89-87	CS-781	VIN Code "U"; w/gear driven cam
1	Camshaft	88	CS-782	VIN Code "R"
1	Camshaft	87	CS-782	VIN Code "R"
1	Camshaft	86-85	CS-696	VIN Code "R"; w/flat lifters
1	Camshaft	86-85	CS-782	VIN Code "R"; w/r/r. lifters
1	Camshaft	86-85	CS-781	VIN Code "U"; w/r/r. lifters
1	Camshaft	84	CS-782	VIN Code "R"; w/r/r. lifters
1	Camshaft	84	CS-696	VIN Codes "R" & "2"; w/flat lifters
1	Camshaft	83-80	CS-696	
1	Camshaft	79	CS-708	VIN Code "1"; w/Calif. Emis.
1	Camshaft	79	CS-696	VIN Codes "V" & "9"; Exc. Calif.
1	Camshaft	78-77	CS-708	
8	Lifter	90-87	HT-2148 Std Only	Hyd. r/r.
8	Lifter	86-84	HT-2148 Std Only	VIN Codes "R" & "U"; Hyd. r/r.
8	Lifter	86-84	HT-969 Std Only	VIN Codes "R" & "2"; Hyd.; w/.440" wide oil groove
8	Lifter	83-80	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter	79	HT-969 Std Only	VIN Code "1"; w/Calif. Emis.; Hyd.; w/.440" wide oil groove
8	Lifter	79	HT-969 Std Only	VIN Codes "V" & "9", exc. Calif.; Hyd.; w/.440" wide oil groove
8	Lifter	78-77	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter, Bulk	90-87	HT-2148B Std Only	Hyd. r/r.; Carton of 128
8	Lifter, Bulk	86-84	HT-2148B Std Only	VIN Codes "R" & "U"; Hyd. r/r.; Carton of 128
8	Lifter, Bulk	86-84	HT-969B Std Only	VIN Codes "R" & "2"; Hyd.; Carton of 128
8	Lifter, Bulk	83-80	HT-969B Std Only	Hyd.; Carton of 128
6	Lifter, Bulk	79	HT-969B Std Only	VIN Code "1"; w/Calif. Emis.; Hyd.; Carton of 128
8	Lifter, Bulk	79	HT-969B Std Only	VIN Codes "V" & "9", exc. Calif.; Hyd.; Carton of 128
8	Lifter, Bulk	78-77	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	90-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	KC-1507	VIN Code "R"; Hyd. r/r.; Incl. (1) CS-1507, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	90	KC-1518	VIN Code "U"; Hyd. r/r.; Incl. (1) CS-1518, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89	KC-782	VIN Code "R"; Hyd. r/r.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89-87	KC-781	VIN Code "U"; w/gear driven cam; Hyd. r/r.; Incl. (1) CS-781, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	88	KC-782	VIN Code "R"; Hyd. r/r.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	87	KC-782	VIN Code "R"; Hyd. r/r.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	86-85	KC-782	VIN Code "R"; w/r/r. lifters; Hyd. r/r.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	86-85	KC-781	VIN Code "U"; w/r/r. lifters; Hyd. r/r.; Incl. (1) CS-781, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	84	KC-782	VIN Code "R"; w/r/r. lifters; Hyd. r/r.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	79	KC-708	VIN Code "1"; w/Calif. Emis.; Hyd.; Incl. (1) CS-708, (8) HT-969, (1) 55-403B
1	Cam/Lifter Kit	78-77	KC-708	Hyd.; Incl. (1) CS-708, (8) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	89	KCT-782	VIN Code "R"; Hyd. r/r.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	KCT-781	VIN Code "U"; w/gear driven cam; Hyd.; Incl. (1) CS-781, (8) HT-2148, (1) 221-2544S, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	KCT-782	VIN Code "R"; Hyd. r/r.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 26 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77

(cont.) VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, "5" 1979-83, "9" 1978-79

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	87	<b>KCT-782</b>	VIN Code "R"; Hyd. rlr.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	<b>KCT-782</b>	VIN Code "R"; w/rlr. lifters; Hyd. rlr.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	<b>KCT-781</b>	VIN Code "U"; w/rlr. lifters; Hyd.; Incl. (1) CS-781, (8) HT-2148, (1) 221-2544S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84	<b>KCT-782</b>	VIN Code "R"; w/rlr. lifters; Hyd. rlr.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	90-87	<b>RP-3263</b>	8.2720" O.A.L.
8	Push Rod	86-85	<b>RP-3170</b>	8.3830" O.A.L.
8	Push Rod	84	<b>RP-3211</b>	Exc. Fiero; 8.9760" O.A.L.
8	Push Rod	84	<b>RP-3263</b>	2nd design; Fiero; 8.2720" O.A.L.
8	Push Rod	83-82	<b>RP-3211</b>	8.9760" O.A.L.
8	Push Rod	79	<b>RP-3180</b>	Calif.; 9.6800" O.A.L.
8	Push Rod	79	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.
8	Push Rod	78-77	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.
8	Push Rod	78-77	<b>RP-3180</b>	9.6800" O.A.L.
8	Push Rod, Bulk	90-87	<b>BRP-3263</b>	Carton of 100; 8.2720" O.A.L.
8	Push Rod, Bulk	84	<b>BRP-3211</b>	Exc. Fiero; Carton of 100; 8.9760" O.A.L.
8	Push Rod, Bulk	84	<b>BRP-3263</b>	2nd design; Fiero; Carton of 100; 8.2720" O.A.L.
8	Push Rod, Bulk	83-82	<b>BRP-3211</b>	Carton of 100; 8.9760" O.A.L.
8	Push Rod, Bulk	79	<b>BRP-3180</b>	Calif.; Carton of 100; 9.6800" O.A.L.
8	Push Rod, Bulk	78-77	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	90-89	<b>R-894</b>	Incl. arm & 2-pivots
8	Arm Assy.	88-80	<b>R-894</b>	Incl. arm & 2-pivots
8	Arm Assy.	79-77	<b>R-894</b>	Incl. arm & 2-pivots
8	Arm Assy., Bulk	90-89	<b>R-894B</b>	Incl. arm & 2-pivots; Carton of 64
8	Arm Assy., Bulk	88-80	<b>R-894B</b>	Incl. arm & 2-pivots; Carton of 64
8	Arm Assy., Bulk	79-77	<b>R-894B</b>	Incl. arm & 2-pivots; Carton of 64
8	Arm	90-89	<b>R-894A</b>	
8	Arm	88-80	<b>R-894A</b>	
8	Arm	79-77	<b>R-894A</b>	
8	Pivot Ball	90-77	<b>MR-1832</b>	Hole I.D. .4365"
8	Pivot Ball	90-77	<b>MR-1841</b>	Hole I.D. .4745"
8	Nut	90-77	<b>MR-1934</b>	3/8" x 24 UNF
8	Bolt	88-87	<b>MR-1938</b>	
8	Bolt	86-81	<b>MR-1936</b>	Exc. 1984 Fiero
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-89	<b>V-2529</b> Std-15	Chrome plated stem; 1.5000" Head Dia., .3133" Stem Dia., 4.5410" O.A.L.
4	Exhaust	88-87	<b>V-2436</b> Std Only	Chrome plated stem; 1.5000" Head Dia., .3132" Stem Dia., 4.3550" O.A.L.
4	Exhaust	86-80	<b>V-2203</b> Std Only	Chrome plated stem; 1.5000" Head Dia., .3422" Stem Dia., 4.6200" O.A.L.
4	Exhaust	79	<b>V-2203</b> Std Only	Exc. Calif.; Chrome plated stem; 1.5000" Head Dia., .3422" Stem Dia., 4.6200" O.A.L.
4	Exhaust, Bulk	90-89	<b>V-2529B15</b> 15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3258" Stem Dia., 4.5410" O.A.L.
4	Intake	90-89	<b>V-2530</b> Std-15	Chrome plated stem; 1.7201" Head Dia., .3135" Stem Dia., 4.5910" O.A.L.
4	Intake	88-87	<b>V-3941</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3135" Stem Dia., 4.3940" O.A.L.
4	Intake	86-80	<b>V-2204</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
4	Intake	79	<b>V-2204</b> Std Only	Exc. Calif.; Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
4	Intake, Bulk	90-89	<b>V-2530B15</b> 15	Chrome plated stem; Carton of 25; 1.7201" Head Dia., .3285" Stem Dia., 4.5910" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-77	<b>VG-5005</b>	Exh. & Int.; w/.343" stem dia.; .3430" ID, 2.2500" O.A.L.
8	Guide	90-77	<b>VG-5005H</b>	Exh. & Int.; w/.343" stem dia.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	90-77	<b>VG-5005T</b>	Exh. & Int.; w/.343" stem dia.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide	90-77	<b>VG-5083T</b>	Exh. & Int.; Threaded; w/8.0MM valve stem dia.; .3150" ID, 2.2500" O.A.L.

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**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77 26**

VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, (cont.)  
"5" 1979-83, "9" 1978-79

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Guide, Bulk	90-77	<b>VG-5005B</b>	Exh. & Int.; w/.343" stem dia.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-77	<b>VG-5005TB</b>	Exh. & Int.; w/.343" stem dia.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-89	<b>VS-922</b>	Incl. damper; 2.0080" Free Height
8	Spring	88-87	<b>VS-861</b>	Incl. damper; 1.8240" Free Height
8	Spring	85-77	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
8	Spring, Bulk	88-87	<b>VS-861B</b>	Incl. damper; Carton of 300; 1.8240" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-87	<b>ST-2087</b>	Exh. & Int.; O.E. design; Positive type; Viton®
8	Valve Stem Seal	90-87	<b>ST-2001</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	86-77	<b>ST-2001</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	86-77	<b>MV-1233C</b>	Exh. & Int.; O-Ring; Rubber
4	Valve Stem Seal	85-80	<b>MV-1888C</b>	Int.; O.E. design; Positive type; Viton®
8	Valve Stem Seal Bulk	90-87	<b>ST-2001BC</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	86-77	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	86-77	<b>ST-2001BC</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
4	Valve Stem Seal Bulk	85-80	<b>MV-1888</b>	Int.; O.E. design; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-77	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Exh.	90-77	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	90-77	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
4	Int.	90-77	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-87	<b>VK-216</b>	1 groove
16	Keeper	86-85	<b>VK-115</b>	1 groove; Square cut key groove
16	Keeper	86-85	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
16	Keeper	84	<b>VK-115</b>	Exc. Fiero; 1 groove; Square cut key groove
16	Keeper	84	<b>VK-115R</b>	Exc. Fiero; 1 groove; Square cut key groove; Hardened
16	Keeper	84	<b>VK-216</b>	Fiero; 1 groove
16	Keeper	83-77	<b>VK-115</b>	1 groove; Square cut key groove
16	Keeper	83-77	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	90-87	<b>VK-216B</b>	1 groove; Carton of 1000
16	Keeper, Bulk	86-85	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	84	<b>VK-115B</b>	Exc. Fiero; 1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	84	<b>VK-216B</b>	Fiero; 1 groove; Carton of 1000
16	Keeper, Bulk	83-77	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	90-77	<b>259-201B</b>	.030"; Carton of 100
8	Spring Insert	90-77	<b>259-201A</b>	.060"; Carton of 100
8	Spring Insert	90-77	<b>259-201ARS</b>	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-87	<b>H547CP</b> Std-20-30-40-60	VIN Codes "R" & "U"; Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	90-87	<b>H547P</b> Std-20-30-40-60	VIN Codes "R" & "U"; Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	86-82	<b>H553CP</b> Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	86-82	<b>H547CP</b> Std-20-30-40-60	VIN Code "R"; Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>

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# GM Car

## 26 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77

(cont.) VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, "5" 1979-83, "9" 1978-79

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	86-82	<b>H547P</b> Std-20-30-40-60	VIN Code "R"; Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	81-80	<b>H547CP</b> Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	81-80	<b>H547P</b> Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	81-79	<b>465AP</b> * Std-30-40-60	Use w/E-381K or E-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-79	<b>465NP</b> Std-30-40-60	Use w/E-381K or E-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-79	<b>H553CP</b> Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	79	<b>H547CP</b> Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	79	<b>H547P</b> Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	78-77	<b>457P30</b> 30-40-60	Use w/E-381K or E-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Flat Head - 8.2:1 C.R.
4	Cast Piston - Individual	90-87	<b>WH547CP</b> Std-20-30-40-60	VIN Codes "R" & "U"; Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	90-87	<b>WH547P</b> Std-20-30-40-60	VIN Codes "R" & "U"; Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	86-82	<b>WH553CP</b> Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	86-82	<b>WH547CP</b> Std-20-30-40-60	VIN Code "R"; Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	86-82	<b>WH547P</b> Std-20-30-40-60	VIN Code "R"; Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	81-80	<b>WH547CP</b> Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	81-80	<b>WH547P</b> Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	81-79	<b>W465NP</b> Std Only	Use w/WE-381K or WE-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.

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**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77 26**

VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, (cont.)  
"5" 1979-83, "9" 1978-79

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
4	Cast Piston - Individual	81-79	<b>WH553CP</b> Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	79	<b>WH547CP</b> Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	79	<b>WH547P</b> Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	78-77	<b>W457P30</b> 30-40-60	Use w/WE-381K or WE-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Flat Head - 8.2:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-87	<b>4KH547CP60</b> 60	VIN Codes "R" & "U"; Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	86-82	<b>4KH547CP60</b> 60	VIN Code "R"; Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	81-80	<b>4KH547CP60</b> 60	Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	79	<b>4KH547CP60</b> 60	Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-82	<b>E-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Premium Set	86-82	<b>E-381K</b> Std-20-30-40-60	Use w/H553CP piston; 2-5/64, 1-3/16
1	Premium Set	81-80	<b>E-384K</b> Std-20-30-40-60	Use w/H547CP or H547P piston; 1-1/16, 1-5/64, 1-3/16
1	Premium Set	81-80	<b>E-381K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	79	<b>E-381K</b> Std-20-30-40-60	Calif.; 2-5/64, 1-3/16
1	Premium Set	79	<b>E-384K</b> Std-20-30-40-60	Use w/H547CP or H547P piston; 1-1/16, 1-5/64, 1-3/16
1	Premium Set	78-77	<b>E-381K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-82	<b>E-384X</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Standard Set	86-82	<b>E-381X</b> Std-20-30-40-60	Use w/H553CP piston; 2-5/64, 1-3/16
1	Standard Set	81-80	<b>E-384X</b> Std-20-30-40-60	Use w/H547CP or H547P piston; 1-1/16, 1-5/64, 1-3/16
1	Standard Set	81-80	<b>E-381X</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79	<b>E-381X</b> Std-20-30-40-60	Calif.; 2-5/64, 1-3/16
1	Standard Set	79	<b>E-384X</b> Std-20-30-40-60	Use w/H547CP or H547P piston; 1-1/16, 1-5/64, 1-3/16
1	Standard Set	78-77	<b>E-381X</b> Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set	90-82	<b>WE-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
4	Premium Single Cylinder Set	86-82	<b>WE-381K</b> Std-20-30	Use w/WH553CP piston; 2-5/64, 1-3/16
4	Premium Single Cylinder Set	81-80	<b>WE-384K</b> Std-20-30-40-60	Use w/WH547CP or WH547P piston; 1-1/16, 1-5/64, 1-3/16
4	Premium Single Cylinder Set	81-80	<b>WE-381K</b> Std-20-30	2-5/64, 1-3/16
4	Premium Single Cylinder Set	79	<b>WE-381K</b> Std-20-30	Calif.; 2-5/64, 1-3/16
4	Premium Single Cylinder Set	79	<b>WE-384K</b> Std-20-30-40-60	Use w/WH547CP or WH547P piston; 1-1/16, 1-5/64, 1-3/16
4	Premium Single Cylinder Set	78-77	<b>WE-381K</b> Std-20-30	2-5/64, 1-3/16
4	Standard Single Cylinder Set	86-82	<b>WE-381X</b> Std-20-30-40	Use w/WH553CP piston; 2-5/64, 1-3/16
4	Standard Single Cylinder Set	81-80	<b>WE-381X</b> Std-20-30-40	2-5/64, 1-3/16
4	Standard Single Cylinder Set	79	<b>WE-381X</b> Std-20-30-40	Calif.; 2-5/64, 1-3/16
4	Standard Single Cylinder Set	78-77	<b>WE-381X</b> Std-20-30-40	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
4	Repair Sleeve	90-77	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
4	Repair Sleeve	90-77	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	<b>6690MA</b> Std-1-10-20-30	VIN Code "U"; <b>A-Series aluminum bearings</b>
1	Main Set	90-82	<b>6689MA</b> Std-1-10-20-30	VIN Code "R"; <b>A-Series aluminum bearings</b>
1	Main Set	86-82	<b>6689MA</b> Std-1-10-20-30	VIN Code "2"; <b>A-Series aluminum bearings</b>
1	Main Set	81-77	<b>6689MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>
1	Rod Set	90-77	<b>4-2500RAA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	90-77	<b>4-2500RAA10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>

**BLOCK**

**BLOCK**

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# GM Car

**26 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77**  
 (cont.) VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, "5" 1979-83, "9" 1978-79

QTY		ENGINE BEARINGS		PART NO.	DESCRIPTION
		(cont.)	YEARS		
4	1	Rod Pair	90-77	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	1	Cam Set	90-85	<b>1756M</b> Std Only	VIN Code "U"
1	1	Cam Set	90-85	<b>1461M</b> Std Only	VIN Codes "R" & "2"
1	1	Cam Set	84-77	<b>1461M</b> Std Only	
2	1	Balance Shaft Bearing	90-85	<b>2557DR</b> Std Only	VIN Code "U"
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	1	Oil Pump	87-80	<b>224-41239</b>	
1	1	Oil Pump	87-80	<b>224-41239V</b>	High Volume, check pan for clearance
1	1	Oil Pump	79	<b>224-41239</b>	Exc. Calif.
1	1	Oil Pump	79	<b>224-41239V</b>	Exc. Calif.; High Volume, check pan for clearance
1	1	Inter. Shaft	87-80	<b>224-61239</b>	
1	1	Inter. Shaft	79	<b>224-61239</b>	Exc. Calif.
1	1	Screen Assy.	87	<b>224-11239</b>	
1	1	Screen Assy.	86-85	<b>224-11239</b>	Exc. VIN Code "U"
1	1	Screen Assy.	84-80	<b>224-11239</b>	
1	1	Screen Assy.	79	<b>224-11239</b>	Exc. Calif.
1	1	Tool	90-77	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION
1	1	Kit Gasket Set	90	<b>260-1563</b>	VIN Code "R"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	90-89	<b>260-1463</b>	VIN Code "U"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	89-88	<b>260-1464</b>	VIN Code "R"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	88	<b>260-1462</b>	VIN Code "U"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	87	<b>260-1228</b>	VIN Code "R"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	87	<b>260-1229</b>	VIN Code "U"; w/A/T; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	86-85	<b>260-1179</b>	VIN Code "U"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	86-84	<b>260-1178</b>	VIN Codes "R" & "2"; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	83-80	<b>260-1128</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.
1	1	Kit Gasket Set	79	<b>260-1128</b>	Crossflow head; Premium valve stem seals incl.
1	1	Head Bolt Set	90-85	<b>260-2518</b>	VIN Code "U"; Replacement recommended
1	1	Head Bolt Set	90-85	<b>260-2504</b>	VIN Codes "R" & "2"; Replacement recommended
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	1	Brass Block Plug Kit	90-86	<b>381-8074</b>	
1	1	Brass Block Plug Kit	85-77	<b>381-8045</b>	
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90	1	VIN Code "U"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6136</b> <b>205-6136M</b>	<b>205-1136</b> <b>205-1136M</b>
90	1	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6219</b> <b>205-6219M</b>	<b>205-1219</b> <b>205-1219M</b>
89	1	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6134</b> <b>205-6134M</b>	<b>205-1134</b> <b>205-1134M</b>
89	1	VIN Code "U"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6136</b> <b>205-6136M</b>	<b>205-1136</b> <b>205-1136M</b>
88	1	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6134</b> <b>205-6134M</b>	<b>205-1134</b> <b>205-1134M</b>
88	1	VIN Code "U"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6135</b> <b>205-6135M</b>	<b>205-1135</b> <b>205-1135M</b>
87	1	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6007</b> <b>205-6007M</b>	<b>205-1007</b> <b>205-1007M</b>
87	1	VIN Code "U"; w/A/T; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6008</b> <b>205-6008M</b>	<b>205-1008</b> <b>205-1008M</b>
86-85	1	VIN Code "U"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-770</b> <b>205-770M</b>	<b>205-270</b> <b>205-270M</b>

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**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77 26**

VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, (cont.)  
"5" 1979-83, "9" 1978-79

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<b>RE-RING KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
86-84	VIN Codes "R" & "2"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-769A</b> <b>205-769AM</b>	<b>205-269A</b> <b>205-269AM</b>
83-82	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove	Re-ring	<b>205-714</b>	<b>205-214</b>
81	Use w/H547CP or H547P piston; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove	Re-ring	<b>205-714</b>	<b>205-214</b>
80	Use w/H547CP or H547P piston; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove	Re-ring	<b>205-714</b>	<b>205-214</b>
79	w/Crossflow head; Use w/H547CP or H547P piston; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove	Re-ring	<b>205-714</b>	<b>205-214</b>

<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
90	VIN Code "R"; Exh. pipe packing not incl.; Oil pump & cam kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-6219C</b>	<b>MK-1219C</b>
90	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Oil pump not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6373A</b> <b>MK-6373A</b>	<b>MKP-1373A</b> <b>MK-1373A</b>
90	VIN Code "R"; Exh. pipe packing not incl.; Oil pump not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6373A</b>	<b>505-1373A</b>
90	VIN Code "U"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Oil pump not incl.; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6374A</b> <b>MK-6374A</b>	<b>MKP-1374A</b> <b>MK-1374A</b>
90	VIN Code "U"; Exh. pipe packing not incl.; Oil pump not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6374A</b>	<b>505-1374A</b>
89	VIN Code "R"; Exh. pipe packing not incl.; Oil pump not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6134A</b> <b>MK-6134A</b>	<b>MKP-1134A</b> <b>MK-1134A</b>
89	VIN Code "R"; Exh. pipe packing not incl.; Oil pump not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6134A</b>	<b>505-1134A</b>
89	VIN Code "U"; Exh. pipe packing not incl.; w/gear driven cam; Oil pump not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6136A</b> <b>MK-6136A</b>	<b>MKP-1136A</b> <b>MK-1136A</b>
89	VIN Code "U"; Exh. pipe packing not incl.; w/gear driven cam; Oil pump not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6136A</b>	<b>505-1136A</b>
88	VIN Code "R"; Exh. pipe packing not incl.; Oil pump not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6134A</b> <b>MK-6134A</b>	<b>MKP-1134A</b> <b>MK-1134A</b>
88	VIN Code "R"; Exh. pipe packing not incl.; Oil pump not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6134A</b>	<b>505-1134A</b>
88	VIN Code "U"; Exh. pipe packing not incl.; w/gear driven cam; Oil pump not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6135A</b> <b>MK-6135A</b>	<b>MKP-1135A</b> <b>MK-1135A</b>
88	VIN Code "U"; Exh. pipe packing not incl.; w/gear driven cam; Oil pump not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6135A</b>	<b>505-1135A</b>
87	VIN Code "R"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6007A</b> <b>MK-6007A</b>	<b>MKP-1007A</b> <b>MK-1007A</b>
87	VIN Code "R"; Exh. pipe packing not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6007A</b>	<b>505-1007A</b>

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# GM Car

**26 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-77**  
 (cont.) VIN Codes "F" 1982-83, "R" 1980-92, "S" 1983, "U" 1985-91, "V" 1977-80, "1" 1978-79, "2" 1982-86, "5" 1979-83, "9" 1978-79

K I T S	OVERHAUL KIT (cont.)		PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION	KIT NO.	KIT NO.	
87	VIN Code "U"; w/A/T; Exh. pipe packing not incl.; w/gear driven cam; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6008A</b> <b>MK-6008A</b>	<b>MKP-1008A</b> <b>MK-1008A</b>	
87	VIN Code "U"; w/A/T; Exh. pipe packing not incl.; w/gear driven cam; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6008A</b>	<b>505-1008A</b>	

## 27 2.5L 153 OHV L4 (Chevrolet), 3.875" Bore 1970-62

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Gear Set	70-65	<b>221-2525S</b>	Incl. (1) 221-2524, (1) 221-2537	
1	Gear Set	64-62	<b>221-2523S</b>	Incl. (1) 221-2522, (1) 221-2537		
1	Crank Gear	70-62	<b>221-2537</b>	27 Teeth		
1	Cam Gear	70-65	<b>221-2524</b>	Alum.; 54 Teeth		
1	Cam Gear	64-62	<b>221-2522</b>	Alum.; 54 Teeth		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	69-62	<b>CS-708</b>	Chevy II		
8	Lifter	70-62	<b>HT-817</b> Std Only	Hyd.		
8	Lifter, Bulk	70-62	<b>HT-817B</b> Std Only	Hyd.; Carton of 128		
1	Prelube	69-62	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	69-62	<b>KC-708A</b>	Chevy II; Hyd.; Incl. (1) CS-708, (8) HT-817, (1) 55-403B		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
8	Push Rod	70-62	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.		
8	Push Rod	70-62	<b>RP-3180</b>	9.6800" O.A.L.		
8	Push Rod, Bulk	70-62	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Arm Assy.	70-62	<b>R-832</b>	Incl. arm, ball & nut		
8	Arm Assy., Bulk	70-62	<b>R-832B</b>	Incl. arm, ball & nut; Carton of 64		
8	Arm	70-62	<b>R-832A</b>			
8	Pivot Ball	70-62	<b>MR-1780</b>			
8	Nut	70-62	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads		
8	Stud	70-62	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"		
8	Stud	70-62	<b>MR-1949</b>	3/8" x 24 x 2.495"		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	70-62	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.		
4	Exhaust	70-62	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.		
4	Exhaust, Bulk	70-62	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.		
4	Intake	70-62	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.		
4	Intake, Bulk	70-62	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	70	<b>VS-521</b>	Incl. damper; 2.1090" Free Height		
8	Spring	69-68	<b>VS-677</b>	Incl. damper; 2.0300" Free Height		
8	Spring	67-62	<b>VS-521</b>	W/Rotocaps; Incl. damper; 2.1090" Free Height		
8	Spring, Bulk	69-68	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
1	Valve Stem Seal	70-62	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE		
1	Valve Stem Seal Bulk	70-62	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Exh.	70-62	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth		
4	Exh.	70-62	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth		
4	Int.	70-62	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
8	Keeper	70-62	<b>VK-115</b>	1 groove; Square cut key groove		
8	Keeper	70-62	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened		
8	Keeper, Bulk	70-62	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000		
8	Spring Insert	70-62	<b>259-203C</b>	.015"; Carton of 100		
8	Spring Insert	70-62	<b>259-203B</b>	.030"; Carton of 100		
8	Spring Insert	70-62	<b>259-203BRS</b>	.030"; Carton of 500		
8	Spring Insert	70-62	<b>259-203A</b>	.060"; Carton of 100		
8	Spring Insert	70-62	<b>259-203ARS</b>	.060"; Carton of 500		
4	Rotocap	67-62	<b>RC-157S</b>			

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**2.5L 153 OHV L4 (Chevrolet), 3.875" Bore 1970-62 27**

(cont.)

					<b>2.5L 153 OHV L4 (Chevrolet), 3.875" Bore 1970-62 27</b>	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Cast Piston	70-62	<b>1108P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs	
	4	Cast Piston	70-62	<b>1108NP</b> * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
	4	Cast Piston - Individual	70-62	<b>W1108NP30</b> * 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
	4	Pin	70-62	<b>P-2208</b> Std-3-5-0015		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	70-62	<b>E-450K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	70-62	<b>E-450X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	4	Premium Single Cylinder Set	70-62	<b>WE-450K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	4	Standard Single Cylinder Set	70-62	<b>WE-450X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Repair Sleeve	70-62	<b>SL-20Y</b> Std Only	1/8" wall, must be cut to correct length	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	70-62	<b>4123MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>		
1	Rod Set	70-62	<b>4-2020CP</b> Std-1-10-20-30-40			
4	Rod Pair	70-62	<b>2020CP</b> Std-1-2-10-20-30-40-50			
1	Cam Set	70-62	<b>1202M</b> Std Only			
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	70-62	<b>224-4147</b>			
1	Oil Pump	70-62	<b>224-4157</b>	High Volume, check pan for clearance		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	70-68	<b>260-1231</b>			
1	Kit Gasket Set	67-62	<b>260-1230</b>			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	70-62	<b>381-8006</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	70-68		Re-ring	<b>205-6010</b>	<b>205-1010</b>	
	70-68	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-6010M</b>	<b>205-1010M</b>	
	67-62		Re-ring	<b>205-6009</b>	<b>205-1009</b>	
	67-62	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-6009M</b>	<b>205-1009M</b>	
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	69-68	Chevy II	Master w/o Rods & Mains	<b>505-6010A</b>	<b>505-1010A</b>	
	69-68	Chevy II; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-6010A</b> <b>MK-6010A</b>	<b>MKP-1010A</b> <b>MK-1010A</b>	
	67-65	Chevy II	Master w/o Rods & Mains	<b>505-6009A</b>	<b>505-1009A</b>	
	67-65	Chevy II; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-6009A</b> <b>MK-6009A</b>	<b>MKP-1009A</b> <b>MK-1009A</b>	
						<b>V A L V E T R A I N</b>
<b>2.7L 164 OHV H6 (Corvair), 3.4375" Bore 1969-64 28</b>						
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Lifter	69-64	<b>HT-817</b> Std Only	Hyd.		
12	Lifter, Bulk	69-64	<b>HT-817B</b> Std Only	Hyd.; Carton of 128		
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Push Rod	69-64	<b>RP-3077</b>	10.2850" O.A.L.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Pivot Ball	69-64	<b>MR-1783</b>			
12	Nut	69-64	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Guide	69-64	<b>VG-6182</b>	.3435" ID, 2.2200" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Spring	69-64	<b>VS-521</b>	Incl. damper; 2.1090" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Valve Stem Seal	69-64	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber		
12	Valve Stem Seal	69-64	<b>ST-2012</b>	Use w/O.E. guide; Positive type; PTFE		
12	Valve Stem Seal Bulk	69-64	<b>ST-2012BC</b>	Use w/O.E. guide; Positive type; Carton of 100; PTFE		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
24	Keeper	69-64	<b>VK-115</b>	1 groove; Square cut key groove		
24	Keeper	69-64	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened		

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## 28 2.7L 164 OHV H6 (Corvair), 3.4375" Bore 1969-64

(cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
24	Keeper, Bulk	69-64	VK-115B	1 groove; Square cut key groove; Carton of 1000	
6	Rotocap	69-64	RC-157S		
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Powerforged	69-65	L-2206F Std-20-30-40-60	Powerforged; 2-1/16", 1-1/8" Ring Groove, 1.584" CD, .8001" Pin Dia., Flat Head; DurOshield® skirt coated piston
	6	Forged Piston - Individual	69-65	WL-2206F Std-20-30-40-60	Powerforged; 2-1/16", 1-1/8" Ring Groove, 1.584" CD, .8001" Pin Dia., Flat Head; DurOshield® skirt coated piston
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	69-64	E-227K Std-20-30-40-60	2-1/16, 1-1/8
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Repair Sleeve	69-64	SL-14M Std Only	3/32" wall, must be cut to correct length	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	69-64	4063M Std-10	Full flanged brgs.	
1	Rod Set	69-64	6-2385CP Std-10		
6	Rod Pair	69-64	2385CP Std-10		

## 29 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80

VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, "9" 1985-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	89-87	KT3-372S	VIN Code "W"; Incl. chain 9 links wide; Incl. (1) 222-372, (1) 223-619, (1) 223-620
1	3 Piece Set	89-87	KT3-368S	VIN Codes "S" & "9"; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	89-87	KT3-373S	VIN Codes "S" & "9"; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	86-85	KT3-373S	Exc. Cavalier, Cimarron & Firenza; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	86-85	KT3-368S	Exc. VIN Code "W"; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	86-85	KT3-372S	VIN Code "W"; Incl. chain 9 links wide; Incl. (1) 222-372, (1) 223-619, (1) 223-620
1	3 Piece Set	84-80	KT3-368S	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	84-80	KT3-373S	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	Timing Chain	89-87	222-368	VIN Codes "S" & "9"; 11 links wide; 64 Links
1	Timing Chain	89-85	222-372	VIN Code "W"; 9 links wide; 64 Links
1	Timing Chain	86-85	222-368	Exc. Cavalier, Cimarron & Firenza; 11 links wide; 64 Links
1	Timing Chain	86-85	222-372	VIN Code "W"; Cavalier, Cimarron & Firenza; 9 links wide; 64 Links
1	Timing Chain	84-80	222-368	11 links wide; 64 Links
1	Chain Damper	89-87	222-59CT	VIN Codes "S" & "9"
1	Chain Damper	89-85	222-59CTN	VIN Code "W"
1	Chain Damper	88-80	222-59CT	
1	Chain Damper	86-85	222-59CTN	Exc. Cavalier, Cimarron & Firenza
1	Crank Sprocket	89-87	223-511	VIN Code "W"; Cavalier, Cimarron & Firenza
1	Crank Sprocket	89-85	223-619	VIN Codes "S" & "9"; 20 Teeth
1	Crank Sprocket	88-80	223-511	VIN Code "W"; 20 Teeth
1	Crank Sprocket	86-85	223-511	20 Teeth
1	Crank Sprocket	86-85	223-619	Exc. Cavalier, Cimarron & Firenza; 20 Teeth
1	Crank Sprocket	86-85	223-619	VIN Code "W"; Cavalier, Cimarron & Firenza; 20 Teeth
1	Cam Sprocket	89-87	223-506	VIN Codes "S" & "9"; 40 Teeth
1	Cam Sprocket	89-85	223-620	VIN Code "W"; 40 Teeth
1	Cam Sprocket	88-80	223-506	40 Teeth
1	Cam Sprocket	86-85	223-506	Exc. Cavalier, Cimarron & Firenza; 40 Teeth
1	Cam Sprocket	86-85	223-620	VIN Code "W"; Cavalier, Cimarron & Firenza; 40 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	89-87	CS-1539	VIN Codes "S", "W" & "9"
1	Camshaft	86-85	CS-715	VIN Code "X"
1	Camshaft	86-81	CS-1539	VIN Codes "L", "S", "W", "Z" & "9"
1	Camshaft	84-82	CS-715	VIN Codes "X" & "1"
1	Camshaft	81	CS-715	VIN Code "X"
1	Camshaft	80	CS-715	VIN Code "7"
1	Performance Cam	80	CS-1032R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 208 Int., 208 Exh.; Valve lift .4200" Int., .4200" Exh.; Lobe Separation 110 Degrees
12	Lifter	89-80	HT-2095 Std Only	Hyd.

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**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80 29**  
 VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, (cont.)  
 "9" 1985-88

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Lifter, Bulk	89-80	<b>HT-2095B</b> Std Only	Hyd.; Carton of 128
1	Prelube	89-80	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	89-87	<b>KC-1539</b>	VIN Codes "S", "W" & "9"; Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	86-85	<b>KC-715</b>	VIN Code "X"; Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	86-81	<b>KC-1539</b>	VIN Codes "L", "S", "W", "Z" & "9"; Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	84-82	<b>KC-715</b>	VIN Codes "X" & "1"; Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	81	<b>KC-715</b>	VIN Code "X"; Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	80	<b>KC-1032R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 208 Int., 208 Exh.; Valve lift .410" Int., .420" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1032R, (12) HT-2095, (1) 55-403B
1	Cam/Lifter Kit	80	<b>KC-715</b>	VIN Code "7"; Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	<b>KCT-1539</b>	VIN Code "W"; Hyd.; Incl. chain 9 links wide; Incl. (1) CS-1539, (12) HT-2095, (1) KT3-372S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	<b>KCT-1539</b>	VIN Code "W"; Hyd.; Incl. chain 9 links wide; Incl. (1) CS-1539, (12) HT-2095, (1) KT3-372S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	<b>KCT-715</b>	VIN Code "X"; Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-82	<b>KCT-715</b>	VIN Codes "X" & "1"; Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B
1	Cam/Lifter/Timing Kit	81	<b>KCT-715</b>	VIN Code "X"; Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80	<b>KCT-715</b>	VIN Code "7"; Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	89	<b>RP-3207</b>	VIN Code "S"; 6.1630" O.A.L.
6	Push Rod	89-87	<b>RP-3274</b>	Exh.; VIN Code "W"; w/Alum. heads; 6.3890" O.A.L.
6	Push Rod	89-87	<b>RP-3273</b>	Int.; VIN Code "W"; w/Alum. heads; 6.0420" O.A.L.
12	Push Rod	88-87	<b>RP-3207</b>	VIN Codes "S" & "9"; 6.1630" O.A.L.
12	Push Rod	86-80	<b>RP-3207</b>	6.1630" O.A.L.
12	Push Rod, Bulk	89	<b>BRP-3207</b>	VIN Code "S"; Carton of 100; 6.1630" O.A.L.
6	Push Rod, Bulk	89-87	<b>BRP-3274</b>	Exh.; VIN Code "W"; w/Alum. heads; Carton of 100; 6.3890" O.A.L.
6	Push Rod, Bulk	89-87	<b>BRP-3273</b>	Int.; VIN Code "W"; w/Alum. heads; Carton of 100; 6.0420" O.A.L.
12	Push Rod, Bulk	88-87	<b>BRP-3207</b>	VIN Codes "S" & "9"; Carton of 100; 6.1630" O.A.L.
12	Push Rod, Bulk	86-80	<b>BRP-3207</b>	Carton of 100; 6.1630" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	89-85	<b>R-881</b>	Adj.; NOTE: To convert VIN Code "W" non-adj. rocker arm to adj.; Use w/MR-1883 stud; Incl. arm, ball & nut
12	Arm Assy., Bulk	89-85	<b>R-881B</b>	Adj.; NOTE: To convert VIN Code "W" non-adj. rocker arm to adj.; Use w/MR-1883 stud; Incl. arm, ball & nut; Carton of 64
12	Arm	89-85	<b>R-881A</b>	Adj.; NOTE: To convert VIN Code "W" non-adj. rocker arm to adj.; Use w/MR-1883 stud
12	Pivot Ball	89-80	<b>MR-1838</b>	Non-Adj.
12	Nut	89-87	<b>MR-1937</b>	Adj.
12	Nut	89-80	<b>MR-1837</b>	Adj.
12	Stud	89-87	<b>MR-1883</b>	Adj.
12	Stud	86-80	<b>MR-1883</b>	Adj.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	89-87	<b>V-2431</b> Std-15	VIN Code "W"; Chrome plated stem; 1.4250" Head Dia., .3136" Stem Dia., 4.7360" O.A.L.
6	Exhaust	89-87	<b>V-2290</b> Std-15	VIN Codes "S" & "9"; Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.
6	Exhaust	86-84	<b>V-2290</b> Std-15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.
6	Exhaust	86-84	<b>V-2172</b> Std Only	VIN Codes "X" & "1"; Chrome plated stem; 1.3070" Head Dia., .3413" Stem Dia., 4.7300" O.A.L.
6	Exhaust	83-82	<b>V-2290</b> Std-15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.
6	Exhaust	83-82	<b>V-2172</b> Std Only	VIN Codes "X" & "1"; Chrome plated stem; 1.3070" Head Dia., .3413" Stem Dia., 4.7300" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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## 29 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80

(cont.) VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, "9" 1985-88

VALVE TRAIN

VALVE TRAIN

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Exhaust	81-80	V-2172 Std Only	Chrome plated stem; 1.3070" Head Dia., .3413" Stem Dia., 4.7300" O.A.L.
6	Exhaust, Bulk	89-87	V-2431B15 15	VIN Code "W"; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3286" Stem Dia., 4.7360" O.A.L.
6	Exhaust, Bulk	89-87	V-2290B15 15	VIN Codes "S" & "9"; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.
6	Exhaust, Bulk	86-84	V-2290B15 15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.
6	Exhaust, Bulk	83-82	V-2290B15 15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.
6	Intake	89-87	V-2432 Std-15	VIN Code "W"; Chrome plated stem; 1.7180" Head Dia., .3140" Stem Dia., 4.7050" O.A.L.
6	Intake	89-87	V-2291 Std-15	VIN Codes "S" & "9"; Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.
6	Intake	86-84	V-2291 Std-15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.
6	Intake	86-84	V-2173 Std-15	VIN Codes "X" & "1"; Chrome plated stem; 1.5980" Head Dia., .3410" Stem Dia., 4.6970" O.A.L.
6	Intake	83-82	V-2291 Std-15	VIN Code "Z"; Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.
6	Intake	83-82	V-2173 Std-15	VIN Codes "X" & "1"; Chrome plated stem; 1.5980" Head Dia., .3410" Stem Dia., 4.6970" O.A.L.
6	Intake	81-80	V-2173 Std-15	Chrome plated stem; 1.5980" Head Dia., .3410" Stem Dia., 4.6970" O.A.L.
6	Intake, Bulk	89-87	V-2432B15 15	VIN Code "W"; Chrome plated stem; Carton of 25; 1.7180" Head Dia., .3290" Stem Dia., 4.7060" O.A.L.
6	Intake, Bulk	89-87	V-2291B15 15	VIN Codes "S" & "9"; Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	86-84	V-2291B15 15	VIN Codes "S", "W", "Z" & "9"; Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	86-84	V-2173B15 15	VIN Codes "X" & "1"; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3563" Stem Dia., 4.7000" O.A.L.
6	Intake, Bulk	83-82	V-2291B15 15	VIN Code "Z"; Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	83-82	V-2173B15 15	VIN Codes "X" & "1"; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3563" Stem Dia., 4.7000" O.A.L.
6	Intake, Bulk	81-80	V-2173B15 15	Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3563" Stem Dia., 4.7000" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	89-80	VG-1377	Exh. & Int.; w/Alum. heads; Incl. lock ring; Threaded; .3155" ID, 2.0850" O.A.L.
12	Guide	89-80	VG-5080	Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	89	VS-798	Exh. & Int.; VIN Code "S"; 1.9100" Free Height
12	Spring	89-87	VS-909	Exh. & Int.; VIN Code "W"; 2.1530" Free Height
12	Spring	88-87	VS-798	Exh. & Int.; VIN Codes "S" & "9"; 1.9100" Free Height
12	Spring	86-81	VS-798	Exh. & Int.; 1.9100" Free Height
12	Spring	80	VS-727	Exh. & Int.; Incl. damper; 1.9100" Free Height
12	Spring, Bulk	89	VS-798B	Exh. & Int.; VIN Code "S"; Carton of 250; 1.9100" Free Height
12	Spring, Bulk	88-87	VS-798B	Exh. & Int.; VIN Codes "S" & "9"; Carton of 250; 1.9100" Free Height
12	Spring, Bulk	86-81	VS-798B	Exh. & Int.; Carton of 250; 1.9100" Free Height
12	Spring, Bulk	80	VS-727B	Exh. & Int.; Incl. damper; Carton of 250; 1.9100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	89-87	ST-2043	Exh.; VIN Code "W"; Positive type; Rubber
6	Valve Stem Seal	89-87	ST-2087	Int.; VIN Code "W"; Positive type; Viton®
12	Valve Stem Seal	89-87	MV-1888C	Exh. & Int.; VIN Code "S"; Positive type; Viton®
12	Valve Stem Seal	89-80	MV-1233C	Exh. & Int.; O-Ring; Rubber
12	Valve Stem Seal	86-85	MV-1888C	Exh. & Int.; VIN Codes "W" & "X"; Positive type; Viton®
6	Valve Stem Seal Bulk	89-87	ST-2043B	Exh.; VIN Code "W"; Positive type; Carton of 1000; Rubber
12	Valve Stem Seal Bulk	89-87	MV-1888	Exh. & Int.; VIN Code "S"; Positive type; Carton of 50; Viton®
12	Valve Stem Seal Bulk	89-80	MV-1233	Exh. & Int.; O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	86-85	MV-1888	Exh. & Int.; VIN Codes "W" & "X"; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	89-80	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	89-80	245-1437-3N Std Only	Use w/V-2172; Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth

(continued on next page)

**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80 29**  
 VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, (cont.)  
 "9" 1985-88

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
6	Exh.	89-80	<b>245-1437-3</b> Std Only	Use w/V-2172; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	89-80	<b>245-1500-1</b> Std Only	Use w/V-2290 & V-2431; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	89-80	<b>245-1687-2N</b> Std Only	Use w/V-2173; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6	Int.	89-80	<b>245-1687-2</b> Std Only	Use w/V-2173; 1.6925" OD, 1.4375" ID, .2160" Depth
6	Int.	89-80	<b>245-1812-4N</b> Std Only	Use w/V-2291 & V-2432; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6	Int.	89-80	<b>245-1812-4</b> Std Only	Use w/V-2291 & V-2432; 1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	89-87	<b>VK-115</b>	VIN Code "S"; 1 groove; Square cut key groove
24	Keeper	89-87	<b>VK-115R</b>	VIN Code "S"; 1 groove; Square cut key groove; Hardened
24	Keeper	89-87	<b>VK-216</b>	VIN Code "W"; 1 groove
24	Keeper	86-80	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	86-80	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	89-87	<b>VK-115B</b>	VIN Code "S"; 1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	89-87	<b>VK-216B</b>	VIN Code "W"; 1 groove; Carton of 1000
24	Keeper, Bulk	86-80	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	86-80	<b>259-201B</b>	.030"; Carton of 100
12	Spring Insert	86-80	<b>259-201A</b>	.060"; Carton of 100
12	Spring Insert	86-80	<b>259-201ARS</b>	.060"; Carton of 500
6	Rotocap	82-80	<b>RC-157S</b>	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	89-88	<b>516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston	89-88	<b>516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	89-88	<b>545CP.75MM</b> .75MM	VIN Code "W"; Use w/E-478K or E-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .265" deep x 2.775" dia.;
6	Cast Piston	89-88	<b>545P</b> Std-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; Use w/E-478K or E-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .265" deep x 2.775" dia.
6	Cast Piston	87	<b>531CP1.00MM</b> 1.00MM	VIN Code "W"; Use w/E-478K or E-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .250" deep x 2.660" dia. w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.;
6	Cast Piston	87	<b>531P</b> Std-.50-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; Use w/E-478K or E-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .250" deep x 2.660" dia. w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	87-86	<b>516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston	87-86	<b>516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	86	<b>464CP</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; 8.9:1 C.R.; Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head;
6	Cast Piston	86	<b>464P</b> Std-.50-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; 8.9:1 C.R.; Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston	85	<b>516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "W"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston

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# GM Car

## 29 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80

(cont.) VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, "9" 1985-88

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	85	<b>516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	85-80	<b>464CP</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; 8.9:1 C.R.; Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head;
6	Cast Piston	85-80	<b>464P</b> Std-.50-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; 8.9:1 C.R.; Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston - Individual	89-88	<b>W516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "S"; Use w/WE-432K or WE-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	89-88	<b>W516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 1-1.75mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston - Individual	89-88	<b>W545CP.75MM</b> .75MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .265" deep x 2.775" dia.;
6	Cast Piston - Individual	89-88	<b>W545P</b> Std-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .265" deep x 2.775" dia.
6	Cast Piston - Individual	87	<b>W531P</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.598" CD, .9055" Pin Dia., Recessed Head .250" deep x 2.660" dia. w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	87-86	<b>W516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "S"; Use w/WE-432K or WE-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	87-86	<b>W516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 1-1.75mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston - Individual	86	<b>W464CP</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; 8.9:1 C.R.; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head;
6	Cast Piston - Individual	86	<b>W464P</b> Std-.50-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; 8.9:1 C.R.; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston - Individual	85	<b>W516P</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-432K or WE-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	85	<b>W516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 1-1.75mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston - Individual	85-80	<b>W464CP</b> Std-.50-.75-1.00-1.50MM	VIN Code "W"; 8.9:1 C.R.; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head;
6	Cast Piston - Individual	85-80	<b>W464P</b> Std-.50-.75-1.00-1.50MM	<b>DurOshield® skirt coated piston</b> VIN Code "W"; 8.9:1 C.R.; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
1	Cast Piston Set w/Prem. Rings	86	<b>6K464CP.75MM</b> .75-1.00MM	VIN Code "W"; 8.9:1 C.R.; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, 23.0mm Pin Dia., Flat Head; DurOshield® skirt coated piston
1	Cast Piston Set w/Prem. Rings	85-80	<b>6K464CP.75MM</b> .75-1.00MM	VIN Code "W"; 8.9:1 C.R.; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, 23.0mm Pin Dia., Flat Head; DurOshield® skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89	<b>E-432K</b> Std-.50-.75-1.00-1.50MM	VIN Code "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove

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**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80 29**  
 VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, (cont.)  
 "9" 1985-88

<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	89	<b>E-478K</b> Std.-50-.75-1.00-1.50MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
1	Premium Set	88-87	<b>E-478K</b> Std.-50-.75-1.00-1.50MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
1	Premium Set	88-87	<b>E-432K</b> Std.-50-.75-1.00-1.50MM	VIN Codes "9" & "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Premium Set	86-85	<b>E-432K</b> Std.-50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Premium Set	84-82	<b>E-411K</b> Std.-50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Premium Set	84-82	<b>E-411KC</b> Std.-50-.75-1.00MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Premium Set	81	<b>E-411K</b> Std.-50-.75-1.00-1.50MM	2nd design; w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Premium Set	81	<b>E-411KC</b> Std.-50-.75-1.00MM	2nd design; w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Standard Set	89	<b>E-432X</b> Std.-50-.75-1.00-1.50MM	VIN Code "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Standard Set	89	<b>E-478X</b> Std.-50-.75-1.00-1.50MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
1	Standard Set	88-87	<b>E-478X</b> Std.-50-.75-1.00-1.50MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
1	Standard Set	88-87	<b>E-432X</b> Std.-50-.75-1.00-1.50MM	VIN Codes "9" & "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Standard Set	86-85	<b>E-432X</b> Std.-50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Standard Set	84-82	<b>E-411X</b> Std.-50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Standard Set	81	<b>E-411X</b> Std.-50-.75-1.00-1.50MM	2nd design; w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Premium Single Cylinder Set	89	<b>WE-432K</b> Std.-50-.75-1.00-1.50MM	VIN Code "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Premium Single Cylinder Set	89	<b>WE-478K</b> Std.-50-.75-1.00MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	88-87	<b>WE-478K</b> Std.-50-.75-1.00MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	88-87	<b>WE-432K</b> Std.-50-.75-1.00-1.50MM	VIN Codes "9" & "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Premium Single Cylinder Set	86-85	<b>WE-432K</b> Std.-50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Premium Single Cylinder Set	84-82	<b>WE-411K</b> Std.-50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Premium Single Cylinder Set	81	<b>WE-411K</b> Std.-50-.75-1.00-1.50MM	2nd design; w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Standard Single Cylinder Set	89	<b>WE-432X</b> Std.-50-.75-1.00-1.50MM	VIN Code "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Standard Single Cylinder Set	89	<b>WE-478X</b> Std.-50-.75-1.00MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	88-87	<b>WE-478X</b> Std.-50-.75-1.00MM	VIN Code "W"; 2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	88-87	<b>WE-432X</b> Std.-50-.75-1.00-1.50MM	VIN Codes "9" & "S"; w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Standard Single Cylinder Set	86-85	<b>WE-432X</b> Std.-50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Standard Single Cylinder Set	84-82	<b>WE-411X</b> Std.-50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Standard Single Cylinder Set	81	<b>WE-411X</b> Std.-50-.75-1.00-1.50MM	2nd design; w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	89-86	<b>7244MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	89-86	<b>7242MA</b> Std.-25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Main Set	85	<b>7244MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	85-80	<b>5090MA</b> Std.-25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size
1	Main Set	85-80	<b>7243MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size; .50MM O/S length flange brg.
1	Main Set	85-80	<b>7241MA</b> Std.-25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size; 3/4 grooved
1	Rod Set	89-80	<b>6-4020A</b> Std.-026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	89-80	<b>6-4020A25X2</b> 25X2-50X2-75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
6	Rod Pair	89-80	<b>4020A</b> Std.-026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>

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# GM Car

## 29 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80

(cont.) VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, "9" 1985-88

ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION	
QTY	(cont.)				
6	Rod Pair	89-80	4020P + Std-.026MM	When depleted use 4020A	
1	Cam Set	89-80	1492M Std Only	Full round design	
1	Cam Set	89-80	1785M Std Only	O.E. split type design	
OIL PUMP		YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	89-80	224-43389V	High Volume, check pan for clearance; Incl. shaft & screen	
1	Oil Pump	89-80	224-4148V	High Volume, check pan for clearance; 5/8" inlet	
1	Oil Pump	89-80	224-4148	5/8" inlet	
1	Pump Repair Kit	89-80	224-51317		
1	Inter. Shaft	89-80	224-6148		
1	Oil Pump Shaft Guide	89-80	224-43351	Nylon	
1	Screen Assy.	89-87	224-1348	VIN Code "S"; 5/8" inlet tube	
1	Screen Assy.	89-87	224-1248	VIN Codes "W" & "9"; 5/8" inlet	
1	Screen Assy.	86	224-1148	Exc. VIN Codes "L", "S", "1" & "9"	
1	Screen Assy.	86	224-1348	VIN Codes "L", "S", "1" & "9"; 5/8" inlet tube	
1	Screen Assy.	85-82	224-1148	Exc. VIN Codes "L", "S" & "1"	
1	Screen Assy.	85-82	224-1348	VIN Codes "L", "S" & "1"; 5/8" inlet tube	
1	Screen Assy.	81	224-1348	VIN Code "Z"; 5/8" inlet tube	
1	Screen Assy.	80	224-1348	VIN Code "7"; 5/8" inlet tube	
1	Tool	89-80	MT-J21882	Pump screen installation tool for 5/8" tube	
GASKETS		YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	89	260-1233	Exc. VIN Code "S"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	89-87	260-1232	VIN Code "S"; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	88-87	260-1233	Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86-85	260-1144	VIN Codes "S" & "W"; Exh. pipe packing not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	85	260-1143	VIN Codes "B" & "X"; Exh. pipe packing not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	84-80	260-1123	Exh. pipe packing not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	89	260-4028	Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.	
1	Valley Pan Gasket Set	88-87	260-4028	Exc. Camaro, Firebird & Fiero; Upper set incl.	
1	Head Bolt Set	89	260-2534	VIN Code "W"; Century, Regal, Celebrity, Cutlass Ciera, Cutlass Supreme, 6000, Firebird, Grand Prix & Tempest; Replacement recommended	
1	Head Bolt Set	89-87	260-2532	VIN Code "W"; Beretta, Cavalier & Corsica; Replacement recommended	
1	Head Bolt Set	88-87	260-2534	VIN Code "W"; Century, Regal, Cimarron, Celebrity, Cutlass Ciera, Cutlass Supreme, Firenza, 6000, Fiero, Firebird, Grand Prix & Tempest; Replacement recommended	
FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-80	381-8046		
1	Steel Block Plug Kit	89-80	381-4012		
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
89-87	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6296	205-1296
89-87	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.		Re-ring w/Mains	205-6296M	205-1296M
89-87	VIN Code "W"; Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains	205-6297M	205-1297M

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**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80 29**  
 VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, (cont.)  
 "9" 1985-88

K I T S	RE-RING KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	89-87	VIN Code "W"; Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	205-6297	205-1297	
	86	VIN Codes "S" & "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.	205-728AM	205-228AM	
	86	VIN Codes "S" & "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-728A	205-228A	
	85	VIN Codes "B" & "X"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	205-727M	205-227M	
	85	VIN Codes "B" & "X"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-727A	205-227A	
	85	VIN Codes "S" & "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; w/2.4937/2.4946" std. shaft size	205-728M	205-228M	
	85	VIN Codes "S" & "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-728A	205-228A	
	84-82	Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	205-699M	205-199M	
	84-82	Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-699	205-199	
	81	2nd design; Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	205-699M	205-199M	
	81	2nd design; Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-699	205-199	
	<b>OVERHAUL KIT</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	89-87	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	505-6011A	505-1011A	
	89-87	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	MKP-6011B MK-6011B	MKP-1011B MK-1011B	
	89-87	VIN Code "W"; Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	MK-6012E	MK-1012E	
	89-87	VIN Code "S"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	BKP-6015	----	
	89-87	VIN Code "S"; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	BK-6016	----	

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## 29 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80

(cont.) VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, "9" 1985-88

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
87	VIN Code "W"; Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	505-6012A	505-1012A
87	VIN Code "W"; Exc. Camaro, Firebird & Fiero; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master	MKP-6012E	MKP-1012E
86	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	505-728E	505-228E
86	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	MKP-728L MK-728L	MKP-228L MK-228L
86	VIN Code "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons	MK-728N	MK-228N
85	VIN Code "X"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	MK-727H	MK-227H
85	VIN Code "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	505-728G	505-228G
85	VIN Code "S"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	MK-728K	MK-228K
85	VIN Code "W"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 9 links wide	Master Master w/o Pistons	MKP-728M MK-728M	MKP-228M MK-228M
84-82	VIN Code "W"; Exh. pipe packing not incl.; 8.9:1 C.R.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	505-699C	505-199C
84-82	VIN Codes "X" & "1"; w/Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master w/o Pistons	MK-699D	MK-199D
84-82	VIN Code "W"; Exh. pipe packing not incl.; 8.9:1 C.R.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide; Incl. 464P piston	Master	MKP-699E	MKP-199E
84-82	VIN Codes "L", "S", "W", "Z" & "9"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master w/o Pistons	MK-699E	MK-199E
81	VIN Code "W"; 2nd design; Exh. pipe packing not incl.; 8.9:1 C.R.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	505-699C	505-199C

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**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1989-80 29**  
 VIN Codes "L" 1983-84, "S" 1985-89, "W" 1985-89, "X" 1981-86, "Z" 1981-84, "1" 1982-84, "7" 1980, (cont.)  
 "9" 1985-88

<b>K I T S</b>	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>	
	81	VIN Code "X"; 2nd design; w/Deep oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-699D</b>	<b>MK-199D</b>
	81	VIN Code "W"; 2nd design; Exh. pipe packing not incl.; 8.9:1 C.R.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide; Incl. 464P piston	Master	<b>MKP-699E</b>	<b>MKP-199E</b>
	81	VIN Codes "L", "S", "W", "Z" & "9"; 2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-699E</b>	<b>MK-199E</b>

**3.0L 181 OHV V6 (Buick), 3.8" Bore 1988-82 30**  
 VIN Codes "E" 1982-85, "L" 1985-88

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
		1	3 Piece Set	88-85	<b>KT3-359SA2</b>	
	1	3 Piece Set	85-82	<b>KT3-359SA1</b>	VIN Code "E"; Incl. (1) 222-359, (1) 223-323, (1) 223-610	
	1	Timing Chain	88-82	<b>222-359</b>	54 Links	
	1	Timing Chain Tensioner	88-85	<b>222-175CT</b>	VIN Code "L"	
	1	Timing Chain Tensioner	85-82	<b>222-44CT</b>	R.H.; VIN Code "E"; Incl. spring	
	1	Crank Sprocket	88-85	<b>223-621</b>	VIN Code "L"; Crank sprocket w/double flats & 36MM balancer hub; 20 Teeth	
	1	Crank Sprocket	85-82	<b>223-323</b>	VIN Code "E"; 20 Teeth	
	1	Cam Sprocket	88-82	<b>223-610</b>	40 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	88-87	<b>CS-813</b>	VIN Code "L"	
	1	Camshaft	85-82	<b>CS-702</b>	VIN Code "E"	
	1	Thrust Button	88-82	<b>MR-1874</b>	Steel button	
	12	Lifter	88-82	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove	
	12	Lifter, Bulk	88-82	<b>HT-969B</b> Std Only	Hyd.; Carton of 128	
	1	Prelube	88-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	88-87	<b>KC-813</b>	VIN Code "L"; Hyd.; Incl. (1) CS-813, (12) HT-969, (1) 55-403B	
	1	Cam/Lifter Kit	85-82	<b>KC-702</b>	VIN Code "E"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	88-87	<b>KCT-813</b>	VIN Code "L"; Hyd.; Incl. crank sprocket w/double flats & 36mm balancer hub; Incl. (1) CS-813, (12) HT-969, (1) KT3-359SA2, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	85-82	<b>KCT-702</b>	VIN Code "E"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B	
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Push Rod	88-85	<b>RP-3256</b>	VIN Code "L"; 7.2600" O.A.L.	
	12	Push Rod	85-82	<b>RP-3213R</b>	VIN Code "E"; Chrome-Moly; 8.6900" O.A.L.	
	12	Push Rod	85-82	<b>RP-3164</b>	VIN Code "E"; 8.6930" O.A.L.	
	12	Push Rod	85-82	<b>RP-316435</b>	VIN Code "E"; 8.7280" O.A.L.	
	12	Push Rod	85-82	<b>RP-316460</b>	VIN Code "E"; 8.7530" O.A.L.	
	12	Push Rod, Bulk	88-85	<b>BRP-3256</b>	VIN Code "L"; Carton of 100; 7.2600" O.A.L.	
	12	Push Rod, Bulk	85-82	<b>BRP-3164</b>	VIN Code "E"; Carton of 100; 8.6930" O.A.L.	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Arm Assy.	85-82	<b>R-947</b>	VIN Code "E"; Rocker arm w/on-center push rod socket; Incl. arm & retainer	
	6	Arm Assy.	85-82	<b>R-870</b>	Left; VIN Code "E"; Incl. arm & retainer; Stamped steel	
	6	Arm	85-82	<b>R-870W</b>	L.H.; VIN Code "E"; Stamped steel	
	12	Pivot	88-85	<b>MR-1885</b>	VIN Code "L"; Pedestal type pivot; w/.375" ID hole	
	12	Retainer	85-82	<b>MR-1829</b>	VIN Code "E"	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exhaust	88-82	<b>V-4168</b> Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.	
	6	Exhaust, Bulk	88-82	<b>V-4168B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.	

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# GM Car

## 30 3.0L 181 OHV V6 (Buick), 3.8" Bore 1988-82

(cont.) VIN Codes "E" 1982-85, "L" 1985-88

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Intake	88-82	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
6	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	88-82	VG-5071	Exh.; Cut to fit; .3440" ID, 2.6250" O.A.L.
6	Guide	85-82	VG-5061	Int.; .3430" ID, 2.3800" O.A.L.
12	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	88-85	MV-1888A	Positive type; Viton®
	Valve Stem Seal Bulk	88-85	MV-1888	Positive type; Carton of 50; Viton®
6	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	88-82	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	88-82	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	88-82	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	88-82	VK-115	1 groove; Square cut key groove
24	Keeper	88-82	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	88-82	VK-115B	1 groove; Square cut key groove; Carton of 1000
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-82	E-369K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	88-82	E-369X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	88-82	WE-369K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	88-82	WE-369X Std-20-30-40-60	2-5/64, 1-3/16
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-82	7144MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	88-82	7150MA10 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
1	Rod Set	88-82	6-3755A Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Rod Set	88-82	6-3755A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	88-82	6-3755AP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
6	Rod Pair	88-82	3755A Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Cam Set	88-86	1755M Std Only	Babbitt material
1	Cam Set	85	1462M Std Only	VIN Code "E"; w/14 bolt oil pan; Babbitt material
1	Cam Set	85	1755M Std Only	VIN Code "E"; w/20 bolt oil pan; Babbitt material
1	Cam Set	84-82	1462M Std Only	Babbitt material
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	88-86	224-51379	VIN Code "L"
1	Pump Repair Kit	85	224-51379	VIN Code "L"; 2nd design
1	Pump Repair Kit	85-82	224-518	VIN Code "E"; Gear type
1	Screen Assy.	85-82	224-138	VIN Code "E"; For 5-3/8" deep oil pan
1	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	88	260-1465	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87-86	260-1236	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1149	VIN Code "E"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1236	VIN Code "L"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84	260-1149	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	260-1032	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	260-1149	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	82	260-1032	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	88-85	260-4018	VIN Code "L"
1	Valley Pan Gasket Set	85-82	260-4014	VIN Code "E"
1	Head Bolt Set	88-86	260-2508	Replacement recommended
1	Head Bolt Set	85	260-2514	VIN Code "L"; Replacement recommended
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	88-85	381-8073	
1	Brass Block Plug Kit	84-82	381-8035	
1	Steel Block Plug Kit	84-82	381-4023	

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**3.0L 181 OHV V6 (Buick), 3.8" Bore 1988-82 30**

VIN Codes "E" 1982-85, "L" 1985-88 (cont.)

<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
88	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6138</b> <b>205-6138M</b>	<b>205-1138</b> <b>205-1138M</b>
87-86	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6015</b> <b>205-6015M</b>	<b>205-1015</b> <b>205-1015M</b>
85	VIN Code "L"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6015</b> <b>205-6015M</b>	<b>205-1015</b> <b>205-1015M</b>
85	VIN Code "E"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-724</b> <b>205-724M</b>	<b>205-224</b> <b>205-224M</b>
84	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-724</b> <b>205-724M</b>	<b>205-224</b> <b>205-224M</b>
83	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6083</b> <b>205-6083M</b>	<b>205-1083</b> <b>205-1083M</b>
83	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-724</b> <b>205-724M</b>	<b>205-224</b> <b>205-224M</b>
82	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6083</b> <b>205-6083M</b>	<b>205-1083</b> <b>205-1083M</b>
<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
88	VIN Code "L"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. crank sprocket w/double flats & 36MM balancer hub	Master w/o Pistons	<b>MK-6138A</b>	<b>MK-1138A</b>
87	VIN Code "L"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Oil pump kit not incl.; Incl. crank sprocket w/double flats & 36MM balancer hub	Master w/o Pistons	<b>MK-6015D</b>	<b>MK-1015D</b>
85	VIN Code "E"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Pistons	<b>MK-724F</b>	<b>MK-224F</b>
84	VIN Code "E"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Pistons	<b>MK-724A</b>	----
83	VIN Code "E"; 1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump incl.	Master w/o Pistons	<b>MK-6083A</b>	<b>MK-1083A</b>
82	VIN Code "E"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump incl.	Master w/o Pistons	<b>MK-6083A</b>	<b>MK-1083A</b>

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**3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 31**

VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel)

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	90	<b>KT3-368S</b>	Camaro & Firebird; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511

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# GM Car

## 31 3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 (cont.) VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	KT3-373S	Camaro & Firebird; Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	90-88	KT3-372S	VIN Code "T"; Exc. Camaro & Firebird; Incl. chain 9 links wide; Incl. (1) 222-372, (1) 223-619, (1) 223-620
1	Timing Chain	90	222-368	Camaro & Firebird; 11 links wide; 64 Links
1	Timing Chain	90	222-372	Exc. Camaro; 9 links wide; 64 Links
1	Timing Chain	90-89	222-372	VIN Code "T"; Exc. Camaro & Firebird; 9 links wide; 64 Links
1	Chain Damper	90	222-59CT	Camaro & Firebird
1	Chain Damper	90-88	222-59CTN	VIN Code "T"; Exc. Camaro & Firebird
1	Crank Sprocket	90	223-511	Camaro & Firebird; 20 Teeth
1	Crank Sprocket	90-89	223-619	VIN Code "T"; Exc. Camaro & Firebird; 20 Teeth
1	Cam Sprocket	90	223-506	Camaro & Firebird; 40 Teeth
1	Cam Sprocket	90-89	223-620	VIN Code "T"; Exc. Camaro & Firebird; 40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-1539	VIN Code "T"
12	Lifter	90-88	HT-2095 Std Only	VIN Code "T"; Hyd.
12	Lifter, Bulk	90-88	HT-2095B Std Only	VIN Code "T"; Hyd.; Carton of 128
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-1539	VIN Code "T"; Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-88	KCT-1539	VIN Code "T"; Exc. Camaro & Firebird; Hyd.; Incl. chain 9 links wide; Incl. (1) CS-1539, (12) HT-2095, (1) KT3-372S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
6	Push Rod	90-88	RP-3274	Exh.; Exc. Camaro & Firebird; 6.3890" O.A.L.
12	Push Rod	90-88	RP-3207	Exh. & Int.; Camaro & Firebird; 6.1630" O.A.L.
6	Push Rod	90-88	RP-3273	Int.; Exc. Camaro & Firebird; 6.0420" O.A.L.
6	Push Rod, Bulk	90-88	BRP-3274	Exh.; Exc. Camaro & Firebird; Carton of 100; 6.3890" O.A.L.
12	Push Rod, Bulk	90-88	BRP-3207	Exh. & Int.; Camaro & Firebird; Carton of 100; 6.1630" O.A.L.
6	Push Rod, Bulk	90-88	BRP-3273	Int.; Exc. Camaro & Firebird; Carton of 100; 6.0420" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-88	R-881	Adj.; NOTE: To convert VIN Code "T" non-adj. rocker arm to adj.; Use w/MR-1883 stud; Incl. arm, ball & nut
12	Arm Assy., Bulk	90-88	R-881B	Adj.; NOTE: To convert VIN Code "T" non-adj. rocker arm to adj.; Use w/MR-1883 stud; Incl. arm, ball & nut; Carton of 64
12	Arm	90-88	R-881A	Adj.; NOTE: To convert VIN Code "T" non-adj. rocker arm to adj.; Use w/MR-1883 stud
12	Pivot Ball	90-88	MR-1838	
12	Nut	90-88	MR-1937	Non-Adj.
12	Nut	90-88	MR-1837	Sunbird, Cavalier, Corsica & Beretta; Adj.
12	Stud	90	MR-1883	Sunbird, Cavalier, Corsica & Beretta; Adj.
12	Stud	89-88	MR-1883	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90	V-2431 Std-15	w/Alum. heads; Chrome plated stem; 1.4250" Head Dia., .3136" Stem Dia., 4.7360" O.A.L.
6	Exhaust	90	V-2290 Std-15	Camaro & Firebird; w/Alum. heads; Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.
6	Exhaust	89-88	V-2431 Std-15	Chrome plated stem; 1.4250" Head Dia., .3136" Stem Dia., 4.7360" O.A.L.
6	Exhaust, Bulk	90	V-2431B15 15	w/Alum. heads; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3286" Stem Dia., 4.7360" O.A.L.
6	Exhaust, Bulk	90	V-2290B15 15	Camaro & Firebird; w/Alum. heads; Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.
6	Exhaust, Bulk	89-88	V-2431B15 15	Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3286" Stem Dia., 4.7360" O.A.L.
6	Intake	90	V-2291 Std-15	Camaro & Firebird; w/Alum. heads; Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.
6	Intake	90	V-2432 Std-15	VIN Code "T"; w/Alum. heads; Chrome plated stem; 1.7180" Head Dia., .3140" Stem Dia., 4.7050" O.A.L.
6	Intake	89-88	V-2432 Std-15	Chrome plated stem; 1.7180" Head Dia., .3140" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	90	V-2291B15 15	Camaro & Firebird; w/Alum. heads; Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.

VALVE TRAIN

VALVE TRAIN

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**3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 31**  
 VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel) (cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Intake, Bulk	90	V-2432B15 15	VIN Code "T"; w/Alum. heads; Chrome plated stem; Carton of 25; 1.7180" Head Dia., .3290" Stem Dia., 4.7060" O.A.L.
6	Intake, Bulk	89-88	V-2432B15 15	Chrome plated stem; Carton of 25; 1.7180" Head Dia., .3290" Stem Dia., 4.7060" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-88	VG-5071	Exh.; Cut to fit; .3440" ID, 2.6250" O.A.L.
12	Guide	90-88	VG-5080	Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90	VS-798	Exh. & Int.; Camaro & Firebird; 1.9100" Free Height
12	Spring	90	VS-909	Exh. & Int.; Exc. Camaro & Firebird; 2.1530" Free Height
12	Spring	89-88	VS-909	Exh. & Int.; 2.1530" Free Height
12	Spring, Bulk	90	VS-798B	Exh. & Int.; Camaro & Firebird; Carton of 250; 1.9100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90	ST-2090	Exh.; Exc. Camaro & Firebird; Positive type; Fluoroelastomer
6	Valve Stem Seal	90	ST-2087	Int.; Exc. Camaro & Firebird; Positive type; Viton®
12	Valve Stem Seal	90-88	MV-1233C	Exh. & Int.; Camaro & Firebird; O-Ring; Rubber
12	Valve Stem Seal Bulk	90-88	MV-1233	Exh. & Int.; Camaro & Firebird; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-88	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90-88	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90-88	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6	Int.	90-88	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-88	VK-115	Camaro & Firebird; 1 groove; Square cut key groove
24	Keeper	90-88	VK-115R	Camaro & Firebird; 1 groove; Square cut key groove; Hardened
24	Keeper	90-88	VK-216	Exc. Camaro & Firebird; 1 groove
24	Keeper, Bulk	90-88	VK-115B	Camaro & Firebird; 1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	90-88	VK-216B	Exc. Camaro & Firebird; 1 groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	H562CP Std.-50-.75-1.00-1.50MM	VIN Code "T"; Camaro & Firebird; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .105" deep x 2.913" dia.; DurOshield® skirt coated piston
6	Cast Piston	90	H561CP Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/E-605K or E-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.; DurOshield® skirt coated piston
6	Cast Piston	90	H561P Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/E-605K or E-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.
6	Cast Piston	89-88	H561CP Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/E-605K or E-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.; DurOshield® skirt coated piston
6	Cast Piston	89-88	H561P Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/E-605K or E-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.
6	Cast Piston - Individual	90	WH562CP Std.-50-.75-1.00-1.50MM	VIN Code "T"; Camaro & Firebird; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .105" deep x 2.913" dia.; DurOshield® skirt coated piston
6	Cast Piston - Individual	90	WH561CP Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/WE-605K or WE-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.; DurOshield® skirt coated piston
6	Cast Piston - Individual	90	WH561P Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/WE-605K or WE-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.

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# GM Car

## 31 3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 (cont.) VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
6	Cast Piston - Individual	89-88	<b>WH561CP</b> Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/WE-605K or WE-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	89-88	<b>WH561P</b> Std.-50-.75-1.00-1.50MM	VIN Code "T"; Exc. Camaro & Firebird; Use w/WE-605K or WE-605X ring set; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .265" deep x 3.000" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	<b>E-605K</b> Std.-50-.75-1.00-1.50MM	VIN Codes "M" & "T"; 2-1.50MM, 1-4.00MM
1	Standard Set	90-88	<b>E-605X</b> Std.-50-.75-1.00-1.50MM	VIN Codes "M" & "T"; 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-88	<b>WE-605K</b> Std.-50-.75-1.00MM	VIN Codes "M" & "T"; 2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	90-88	<b>WE-605X</b> Std.-50-.75-1.00MM	VIN Codes "M" & "T"; 2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	<b>7244MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	90-88	<b>7242MA</b> Std.-25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Rod Set	90-88	<b>6-4020A</b> Std.-026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-88	<b>6-4020A25X2</b> 25X2-50X2-75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
6	Rod Pair	90-88	<b>4020A</b> Std.-026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
6	Rod Pair	90-88	<b>4020P +</b> Std.-026MM	When depleted use 4020A
1	Cam Set	90-88	<b>1492M</b> Std Only	Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	<b>224-4148</b>	VIN Code "T"; 1st design; 5/8" inlet
1	Oil Pump	90	<b>224-4152</b>	VIN Code "T"; 2nd design; 3/4" inlet
1	Oil Pump	90	<b>224-4152V</b>	VIN Code "T"; 2nd Design; High Volume, check pan for clearance; 3/4" inlet
1	Oil Pump	90	<b>224-4148V</b>	1st design; High Volume, check pan for clearance; 5/8" inlet
1	Oil Pump	89-88	<b>224-4148</b>	VIN Code "T"; Cutlass Calais, Cutlass Ciera, Cutlass Supreme, Grand Prix, Regal & 6000; 5/8" inlet
1	Oil Pump	89-88	<b>224-4148V</b>	VIN Code "T"; High Volume, check pan for clearance; 5/8" inlet
1	Pump Repair Kit	90-88	<b>224-51317</b>	Exc. High Volume
1	Inter. Shaft	90-88	<b>224-6148</b>	
1	Oil Pump Shaft Guide	90-88	<b>224-43351</b>	Nylon
1	Screen Assy.	90	<b>224-1348</b>	VIN Code "T"; 1st design; Camaro & Firebird; 5/8" inlet tube
1	Screen Assy.	90	<b>224-1248</b>	VIN Code "T"; 1st design; Exc. Camaro & Firebird; 5/8" inlet
1	Screen Assy.	90	<b>224-14265</b>	VIN Code "T"; 2nd design; Camaro & Firebird; 3/4" inlet tube
1	Screen Assy.	90	<b>224-14271</b>	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; 3/4" inlet
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	<b>260-1466</b>	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90	<b>260-1233</b>	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89-88	<b>260-1233</b>	VIN Code "T"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	90	<b>260-4028</b>	Exc. Camaro & Firebird; Upper set incl.
1	Valley Pan Gasket Set	89-88	<b>260-4028</b>	Upper set incl.
1	Head Bolt Set	90	<b>260-2532</b>	VIN Code "T"; Cavalier; Replacement recommended
1	Head Bolt Set	90-88	<b>260-2534</b>	VIN Code "T"; Exc. Camaro, Cavalier, & Firebird; Replacement recommended
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	<b>381-8085</b>	

(continued on next page)



**3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 31**  
 VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel) (cont.)

	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>				
<b>K I T S</b>	90	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6184</b>	<b>205-1184</b>	
	90	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains	<b>205-6184M</b>	<b>205-1184M</b>	
	90	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6300M</b>	<b>205-1300M</b>	
	90	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6300</b>	<b>205-1300</b>	
	89-88	VIN Code "T"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6300M</b>	<b>205-1300M</b>	
	89-88	VIN Code "T"; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6300</b>	<b>205-1300</b>	
	<b>OVERHAUL KIT</b>					
		<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
		90	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gsks. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Block	<b>BK-6017</b>	----
		90	VIN Code "T"; Camaro & Firebird; 1st design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	<b>BKP-6017</b>	----
	90	VIN Code "T"; Camaro & Firebird; 2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump	Block w/Pump & Freeze Plugs	<b>BKP-6018</b>	----	
	90	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump	Block w/Pump & Freeze Plugs	<b>BKP-6021</b>	----	
	90	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Block	<b>BK-6021</b>	----	
	90	VIN Code "T"; 1st design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	<b>BKP-6022</b>	----	
	90	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	<b>505-6183A</b>	<b>505-1183A</b>	

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# GM Car

**31 3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88**  
 (cont.) VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel)

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
90	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide; Freeze plugs not incl.	Master w/o Pistons	MK-6183D	MK-1183D
90	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. chain 9 links wide; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Master	MKP-6183D	MKP-1183D
90	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; Oil pump & freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.; Incl. chain 11 links wide	Master Master w/o Pistons	MKP-6184C MK-6184C	MKP-1184C MK-1184C
90	VIN Code "T"; Camaro & Firebird; Exh. pipe packing not incl.; Oil pump & freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. chain 11 links wide	Master w/o Rods & Mains	505-6184C	505-1184C
90	VIN Code "T"; 1st design; Camaro & Firebird; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	MKP-7000 MK-7000	MKP-2000 MK-2000
90	VIN Code "T"; 1st design; Camaro & Firebird; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-7000	505-2000
90	VIN Code "T"; 2nd design; Camaro & Firebird; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. chain 11 links wide; Incl. 3/4" inlet oil pump	Master Master w/o Pistons	MKP-7001 MK-7001	MKP-2001 MK-2001
90	VIN Code "T"; 2nd design; Camaro & Firebird; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. chain 11 links wide; Incl. 3/4" inlet oil pump	Master w/o Rods & Mains	505-7001	505-2001
90	VIN Code "T"; 1st design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master Master w/o Pistons	MKP-7002 MK-7002	MKP-2002 MK-2002
90	VIN Code "T"; 1st design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	505-7002	505-2002
90	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons	MK-7003	----
90	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Incl. 3/4" inlet oil pump; Incl. chain 9 links wide	Master	MKP-7003	----

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3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990-88 **31**  
 VIN Codes "J" 1999-2005, "M" 1993-99, "T" 1988-94, "W" 1993 (Flex Fuel) (cont.)

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Code "T"; 2nd design; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump	Master w/o Rods & Mains	505-7003	----
90	VIN Code "T"; Exc. Camaro & Firebird; 1st design; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump, check pan for clearance; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons	MK-7011	----
90-88	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Block	BK-6021	----
89-88	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	BKP-6022	----
89-88	VIN Code "T"; Cutlass Calais, Cutlass Ciera, Cutlass Supreme, Gran Prix, Regal & 6000; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	505-6183A	505-1183A
89-88	VIN Code "T"; Cutlass Calais, Cutlass Ciera, Cutlass Supreme, Gran Prix, Regal & 6000; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide; Freeze plugs not incl.	Master w/o Pistons	MK-6183D	MK-1183D
89-88	VIN Code "T"; Cutlass Calais, Cutlass Ciera, Cutlass Supreme, Gran Prix, Regal & 6000; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. chain 9 links wide; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Master	MKP-6183D	MKP-1183D
89-88	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master Master w/o Pistons	MKP-7002 MK-7002	MKP-2002 MK-2002
89-88	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains	505-7002	505-2002
89-88	VIN Code "T"; Exc. Camaro & Firebird; Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump, check pan for clearance; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons	MK-7011	----

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# GM Car

## 32 3.1L 189 (3136cc) OHV Turbo V6 (Chevrolet), 89mm Bore 1990-89 VIN Code "V" 1989-90

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-89	KT3-372S	Incl. chain 9 links wide; Incl. (1) 222-372, (1) 223-619, (1) 223-620
1	Timing Chain	90-89	222-372	9 links wide; 64 Links
1	Chain Damper	90-89	222-59CTN	
1	Crank Sprocket	90-89	223-619	20 Teeth
1	Cam Sprocket	90-89	223-620	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-1539	
12	Lifter	90-89	HT-2095 Std Only	Hyd.
12	Lifter, Bulk	90-89	HT-2095B Std Only	Hyd.; Carton of 128
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-89	KC-1539	Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-89	KCT-1539	Hyd.; Incl. chain 9 links wide; Incl. (1) CS-1539, (12) HT-2095, (1) KT3-372S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
6	Push Rod	90-89	RP-3274	Exh.; 6.3890" O.A.L.
6	Push Rod	90-89	RP-3273	Int.; 6.0420" O.A.L.
6	Push Rod, Bulk	90-89	BRP-3274	Exh.; Carton of 100; 6.3890" O.A.L.
6	Push Rod, Bulk	90-89	BRP-3273	Int.; Carton of 100; 6.0420" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-89	R-881	Adj.; Use w/MR-1883 stud; Incl. arm, ball & nut
12	Arm Assy., Bulk	90-89	R-881B	Adj.; Use w/MR-1883 stud; Incl. arm, ball & nut; Carton of 64
12	Arm	90-89	R-881A	Adj.; Use w/MR-1883 stud
12	Pivot Ball	90-89	MR-1838	
12	Stud	90-89	MR-1883	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-89	V-2431 Std-15	Chrome plated stem; 1.4250" Head Dia., .3136" Stem Dia., 4.7360" O.A.L.
6	Exhaust, Bulk	90-89	V-2431B15 15	Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3286" Stem Dia., 4.7360" O.A.L.
6	Intake	90-89	V-2432 Std-15	Chrome plated stem; 1.7180" Head Dia., .3140" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	90-89	V-2432B15 15	Chrome plated stem; Carton of 25; 1.7180" Head Dia., .3290" Stem Dia., 4.7060" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90-89	VG-1377	Exh. & Int.; w/Alum. heads; Incl. lock ring; Threaded; .3155" ID, 2.0850" O.A.L.
12	Guide	90-89	VG-5080	Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-89	VS-909	2.1530" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-89	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90-89	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90-89	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6	Int.	90-89	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-89	VK-216	1 groove
24	Keeper, Bulk	90-89	VK-216B	1 groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	E-605K Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-89	WE-605K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	7244MA.25MM .25-.50-.75MM	A-Series aluminum bearings; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	90-89	7242MA Std-.25-.50-.75-1.00MM	A-Series aluminum bearings; 3/4 grooved
1	Rod Set	90-89	6-4020A Std-.026-.25-.50-.75-1.00MM	A-Series aluminum bearings
1	Rod Set	90-89	6-4020A25X2 25X2-50X2-75X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore
6	Rod Pair	90-89	4020A Std-.026-.25-.50-.75-1.00MM	A-Series aluminum bearings
6	Rod Pair	90-89	4020P + Std-.026MM	When depleted use 4020A
1	Cam Set	90-89	1492M Std Only	Full round design

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3.1L 189 (3136cc) OHV Turbo V6 (Chevrolet), 89mm Bore 1990-89 **32**

VIN Code "V" 1989-90 (cont.)

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	90-89	224-4148V	High Volume, check pan for clearance; 5/8" inlet		
	1	Inter. Shaft	90-89	224-6148			
	1	Oil Pump Shaft Guide	90-89	224-43351	Nylon		
1	Screen Assy.	90-89	224-1248	5/8" inlet			
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	90-89	260-1233	Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
	1	Valley Pan Gasket Set	90-89	260-4028	Upper set incl.		
	1	Head Bolt Set	90-89	260-2534	Replacement recommended		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	90-89	381-8085			
	RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION					
90-89	Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6300M	----		
90-89	Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6300	----		
OVERHAUL KIT					PREMIUM KIT NO.	ECONOMY KIT NO.	
YEARS	DESCRIPTION						
90-89	Int. manifold gskt. not incl.; Exh. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump, check pan for clearance; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons		MK-7011	----		

3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore 1967-62 **33**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
	1	Gear Set	67-65	221-2525S	Incl. (1) 221-2524, (1) 221-2537		
	1	Gear Set	64-62	221-2523S	Incl. (1) 221-2522, (1) 221-2537		
	1	Crank Gear	67-62	221-2537	27 Teeth		
	1	Cam Gear	67-65	221-2524	Alum.; 54 Teeth		
	1	Cam Gear	64-62	221-2522	Alum.; 54 Teeth		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
	1	Camshaft	67-62	CS-633			
	12	Lifter	67-62	HT-817 Std Only	Hyd.		
	12	Lifter, Bulk	67-62	HT-817B Std Only	Hyd.; Carton of 128		
1	Prelube	67-62	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.			
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
	1	Cam/Lifter Kit	67-62	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B		
	1	Cam/Lifter/Timing Kit	67-65	KCT-633A	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B		
1	Cam/Lifter/Timing Kit	64-62	KCT-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2523S, (1) 55-403B			
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
	12	Push Rod	67-62	RP-3214R	Chrome-Moly; 9.6800" O.A.L.		
	12	Push Rod	67-62	RP-3180	9.6800" O.A.L.		
12	Push Rod, Bulk	67-62	BRP-3180	Carton of 100; 9.6800" O.A.L.			
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	12	Arm Assy.	67-62	R-832	Incl. arm, ball & nut		
	12	Arm Assy., Bulk	67-62	R-832B	Incl. arm, ball & nut; Carton of 64		
	12	Arm	67-62	R-832A			
	12	Pivot Ball	67-62	MR-1780			
	12	Nut	67-62	MR-1751	Self-locking, 3/8" x 24 threads		
	12	Stud	67-62	MR-1752	.003" O/S, 3/8" x 24 x 2.495"		
12	Stud	67-62	MR-1949	3/8" x 24 x 2.495"			
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
	6	Exhaust	67-62	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.		
6	Exhaust	67-62	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.			

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## 33 3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore 1967-62

(cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Exhaust, Bulk	67-62	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	67-62	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	67-62	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	67-65	VS-653	1.9000" Free Height
12	Spring	64-62	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	67-62	MV-1903	Use w/repair guide; Positive type; Rubber
12	Valve Stem Seal	67-62	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	67-62	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	67-62	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	67-62	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	67-62	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	67-62	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	67-62	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	67-62	VK-115	1 groove; Square cut key groove
24	Keeper	67-62	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	67-62	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	67-62	259-203C	.015"; Carton of 100
12	Spring Insert	67-62	259-203B	.030"; Carton of 100
12	Spring Insert	67-62	259-203BRS	.030"; Carton of 500
12	Spring Insert	67-62	259-203A	.060"; Carton of 100
12	Spring Insert	67-62	259-203ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	67-62	311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
6	Cast Piston - Individual	67-62	W311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
6	Pin	67-62	P-2208 Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	67-62	E-250X Std-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	67-62	WE-250X Std Only	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-62	4124MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings
1	Rod Set	67-62	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set	67-63	6-2020CA60 60	Unplated & resizeable
6	Rod Pair	67-62	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	67-62	1203M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	67-63	224-4147	
1	Oil Pump	67-63	224-4157	High Volume, check pan for clearance
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	67-62	260-1005	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	67-62	381-8006	

## 34 3.2L 195 OHV L4 (Pontiac), 4.0625" Bore 1963-61

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	63-61	KT3-350S	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	63-61	222-350	60 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	63-61	HT-951 Std Only	Hyd.
8	Lifter, Bulk	63-61	HT-951B Std Only	Hyd.; Carton of 128
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	63-61	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
8	Push Rod	63-61	RP-3164	8.6930" O.A.L.
8	Push Rod	63-61	RP-316435	8.7280" O.A.L.
8	Push Rod	63-61	RP-316460	8.7530" O.A.L.

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**3.2L 195 OHV L4 (Pontiac), 4.0625" Bore 1963-61 34 (cont.)**

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
8	Push Rod, Bulk	63-61	BRP-3164	Carton of 100; 8.6930" O.A.L.
8	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	62-61	R-853	Incl. arm, ball & nut
8	Arm	62-61	R-853A	
4	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	Intake	62-61	V-1532 Std Only	1.8820" Head Dia., .3409" Stem Dia., 4.8543" O.A.L.
8	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	63-61	VS-445	Inner; 1.8120" Free Height
8	Spring	63-61	VS-446	Outer; 1.9800" Free Height
8	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	63-61	MV-1903	Use w/repair guide; Positive type; Rubber
8	Valve Stem Seal	63-61	ST-2003	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber
8	Valve Stem Seal	63-61	ST-2092	Use w/O.E. guide; Positive type; Rubber
8	Valve Stem Seal	63-61	MV-1233C	O-Ring; Rubber
8	Valve Stem Seal Bulk	63-61	MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	63-61	ST-2003BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	63-61	VK-115	1 groove; Square cut key groove
16	Keeper	63-61	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	63-61	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	63-61	259-301A	.060"; Carton of 100
4	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	63-61	288P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 10.1:1 C.R.
4	Cast Piston - Individual	63-61	W288P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 10.1:1 C.R.
4	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Rod Pair	63-61	1555CPA Std-1-10-20-30-40	
1	Cam Set	63	1220M Std Only	
1	Cam Set	62-61	1146M Std Only	
1	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	63	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	62-61	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen
1	Inter. Shaft	63-61	224-61236	
1	Screen Assy.	63-61	224-11232	5/8" inlet tube

**3.2L 196 OHV V6 (Buick), 3.5" Bore 1979-78 35 VIN Code "C" 1978-79**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	79-78	KT3-359SA1	Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	Timing Chain	79-78	222-359	54 Links
1	Timing Chain Tensioner	79-78	222-44CT	R.H.; Incl. spring
1	Crank Sprocket	79-78	223-323	20 Teeth
1	Cam Sprocket	79-78	223-610	40 Teeth
1	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	79	CS-702	
1	Performance Cam	79-78	CS-1112R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	79-78	CS-1016R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
12	Lifter	79-78	HT-969 Std Only	Hyd.; w/.440" wide oil groove
12	Lifter	79-78	HT-969R Std Only	Speed-Pro Hi-Revolution Hyd.
12	Lifter, Bulk	79-78	HT-969B Std Only	Hyd.; Carton of 128
12	Lifter, Bulk	79-78	HT-969RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	79-78	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	79	KC-702	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	79-78	KC-1112R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 114 Degrees; Incl. (1) CS-1112R, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	79-78	KC-1016R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B

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## 35 3.2L 196 OHV V6 (Buick), 3.5" Bore 1979-78

(cont.) VIN Code "C" 1978-79

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	79	KCT-702	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	79-78	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	79-78	RP-3164	8.6930" O.A.L.
12	Push Rod	79-78	RP-316435	8.7280" O.A.L.
12	Push Rod	79-78	RP-316460	8.7530" O.A.L.
12	Push Rod, Bulk	79-78	BRP-3164	Carton of 100; 8.6930" O.A.L.
QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Arm Assy.	79-78	R-870	Left; Incl. arm & retainer; Stamped steel
6	Arm	79-78	R-870W	Left; Stamped steel
12	Retainer	79-78	MR-1829	
QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	79	V-4168 Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	79	V-4168B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Intake	79	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	79-78	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	79-78	VS-744	2.0200" Free Height
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	79-78	ST-2001	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	79-78	ST-2001BC	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	79	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	79	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	79	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
6	Exh.	78	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	78	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	78	245-1750-1N Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	78	245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	79-78	VK-115	1 groove; Square cut key groove
24	Keeper	79-78	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	79-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	79-78	259-201B	.030"; Carton of 100
12	Spring Insert	79-78	259-201A	.060"; Carton of 100
12	Spring Insert	79-78	259-201ARS	.060"; Carton of 500
QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	79-78	E-197K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-78	E-197X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	79-78	WE-197K Std-20-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	79-78	WE-197X Std-20-30-40-60	2-5/64, 1-3/16
QTY	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Repair Sleeve	79-78	SL-15M Std Only	3/32" wall, Must be cut to correct length
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	79-78	7144MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	79-78	7150MA10 10-20-30	<b>A-Series aluminum bearings; .020" O/S length flange brg.</b>
1	Rod Set	79-78	6-3755A Std-1-10-20-30-40	<b>A-Series aluminum bearings; .659" O.A.L.</b>
1	Rod Set	79-78	6-3755A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set	79-78	6-3755AP10X2 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
6	Rod Pair	79-78	3755A Std-1-10-20-30-40	<b>A-Series aluminum bearings; .659" O.A.L.</b>
1	Cam Set	79-78	1462M Std Only	Babbitt material
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pump Repair Kit	79-78	224-51382	
1	Pump Repair Kit	79-78	224-518	Gear type
1	Pump Repair Kit	79-78	224-518V	High Volume; Installation may require timing cover removal

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## 3.2L 196 OHV V6 (Buick), 3.5" Bore 1979-78 **35**

VIN Code "C" 1978-79 (cont.)

BLOCK	<b>QTY</b>	<b>OIL PUMP (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	BLOCK
	1	Pump Repair Kit	79-78	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gsks. and instructions	
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	79-78	260-1032	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	79	260-4006			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	79-78	381-8035			
1	Steel Block Plug Kit	79-78	381-4023			
		<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	79-78	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Re-ring		205-6016	205-1016

## 3.2L 198 OHV V6 (Buick), 3.625" Bore 1963-62 **36**

VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	VALVE TRAIN
	1	3 Piece Set	63-62	KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334	
	1	Timing Chain	63-62	222-359	54 Links	
	1	Crank Sprocket	63-62	223-323	20 Teeth	
	1	Cam Sprocket	63-62	223-334	40 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	63-62	CS-657		
	12	Lifter	63-62	HT-896 Std Only	Hyd.	
	12	Lifter, Bulk	63-62	HT-896B Std Only	Hyd.; Carton of 126	
	1	Prelube	63-62	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Push Rod	63-62	RP-3300	8.4460" O.A.L.	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exhaust	63-62	V-1550 Std Only	1.3110" Head Dia., .3392" Stem Dia., 4.6063" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Spring	63-62	VS-521	Incl. damper; 2.1090" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Valve Stem Seal	63-62	ST-2001	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE		
12	Valve Stem Seal Bulk	63-62	ST-2001BC	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exh.	63-62	245-1375-4 Std Only	1.3795" OD, 1.1250" ID, .1855" Depth		
6	Int.	63-62	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth		
6	Int.	63-62	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
24	Keeper	63-62	VK-194			
6	Spring Insert	63-62	259-201B	.030"; Carton of 100		
6	Spring Insert	63-62	259-201A	.060"; Carton of 100		
6	Spring Insert	63-62	259-201ARS	.060"; Carton of 500		
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Repair Sleeve	63-62	SL-17M Std Only	3/32" wall, must be cut to correct length & notched		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Rod Set	63-62	6-2500RAA Std-10-20-30-40	<b>A-Series aluminum bearings</b>		
6	Rod Pair	63-62	2500RAA Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
1	Cam Set	63-62	1205M Std Only			

## 3.3L 200 OHV V6 (Chevrolet), 3.5" Bore 1979-78 **37**

VIN Code "M" 1978-79

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	79-78	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	79-78	KT3-499SA	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
1	Timing Chain	79-78	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	79-78	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	79-78	223-505	Steel; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	79-78	223-390	.405" tooth width sprocket; 36 Teeth

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## 37 3.3L 200 OHV V6 (Chevrolet), 3.5" Bore 1979-78

(cont.) VIN Code "M" 1978-79

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam Sprocket	79-78	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	79-78	CS-712	
12	Lifter	79-78	HT-817 Std Only	Hyd.
12	Lifter, Bulk	79-78	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	79-78	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	79-78	KC-712	Hyd.; Incl. (1) CS-712, (12) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-78	KCT-712	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-712, (12) HT-817, (1) KT3-499S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	79-78	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
12	Push Rod	79-78	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
12	Push Rod	79-78	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
12	Push Rod	79-78	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
12	Push Rod	79-78	RP-3093	7.7940" O.A.L.
12	Push Rod, Bulk	79-78	BRP-3093	Carton of 100; 7.7940" O.A.L.
12	Push Rod, Bulk	79-78	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	79-78	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	79-78	R-826	Incl. arm, ball & nut
12	Arm Assy., Bulk	79-78	R-826B	Incl. arm, ball & nut; Carton of 64
12	Arm	79-78	R-826A	
12	Nut	79-78	MR-1751	Self-locking, 3/8" x 24 threads
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	79-78	VG-5038	Exh.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	79-78	VG-5038B	Exh.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	79-78	VS-677	Incl. damper; 2.0300" Free Height
12	Spring, Bulk	79-78	VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	79-78	ST-2003	Positive type; Installation requires valve guide machining; Rubber
12	Valve Stem Seal	79-78	ST-2092	Positive type; Rubber
12	Valve Stem Seal	79-78	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	79-78	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	79-78	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	79-78	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
6	Exh.	79-78	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
6	Int.	79-78	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6	Int.	79-78	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	79-78	VK-115	1 groove; Square cut key groove
24	Keeper	79-78	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	79-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	79-78	259-203C	.015"; Carton of 100
12	Spring Insert	79-78	259-203B	.030"; Carton of 100
12	Spring Insert	79-78	259-203BRS	.030"; Carton of 500
12	Spring Insert	79-78	259-203A	.060"; Carton of 100
12	Spring Insert	79-78	259-203ARS	.060"; Carton of 500
6	Rotocap	79-78	RC-157S	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	79-78	475NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9272" Pin Dia., Recessed Head .142" deep x 2.880" dia. - 8.2:1 C.R.
6	Cast Piston - Individual	79-78	W475NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9272" Pin Dia., Recessed Head .142" deep x 2.880" dia. - 8.2:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	79-78	E-197K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-78	E-197X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	79-78	WE-197K Std-20-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	79-78	WE-197X Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Repair Sleeve	79-78	SL-15M Std Only	3/32" wall, Must be cut to correct length
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	79-78	5085M Std-1-10-20-30-40	

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**3.3L 200 OHV V6 (Chevrolet), 3.5" Bore 1979-78 37**

VIN Code "M" 1978-79 (cont.)

BLOCK	<b>ENGINE BEARINGS</b>				BLOCK	
	QTY	(cont.)	YEARS	PART NO.		DESCRIPTION
	1	Main Set	79-78	6687M10 10-20-30		.020" O/S length flange brg.
	1	Main Set	79-78	5085MA Std-1-10-20-30-40		<b>A-Series aluminum bearings</b>
	1	Rod Set	79-78	6-3750P Std-10-20-30-40		
	6	Rod Pair	79-78	3750P Std-1-10-20-30-40		
	1	Cam Set	79-78	1463M Std-1		Babbitt material; Full round design
1	Cam Set	79-78	1791M Std Only	O.E. split type design		
BLOCK	<b>OIL PUMP</b>				BLOCK	
	QTY		YEARS	PART NO.		DESCRIPTION
	1	Oil Pump	79-78	224-4146A		High Pressure; 5/8" inlet
	1	Oil Pump	79-78	224-4146		5/8" inlet
	1	Inter. Shaft	79-78	224-6146E		Has steel shaft guide; Eliminates nylon shaft guide
	1	Inter. Shaft	79-78	224-6146		Use w/nylon shaft guide
	1	Oil Pump Shaft Guide	79-78	224-43343		Nylon
1	Screen Assy.	79-78	224-1246	5/8" inlet tube		
BLOCK	<b>FREEZE PLUGS</b>				BLOCK	
	QTY		YEARS	PART NO.		DESCRIPTION
	1	Brass Block Plug Kit	79-78	381-8049		
1	Steel Block Plug Kit	79-78	381-9676			

**3.3L 204 OHV V6 (Buick), 3.7" Bore 1990-89 38**

VIN Code "N" 1989-93

VALVE TRAIN	<b>TIMING</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
	1	3 Piece Set	90-89	KT3-377S		Incl. (1) 222-377, (1) 223-684, (1) 223-691		
	1	Timing Chain	90-89	222-377		54 Links		
	1	Timing Chain Tensioner	90-89	222-175CT		1st design; w/Chamfered mounting hole		
	1	Timing Chain Tensioner	90-89	222-295CT		2nd design; w/Counter bored mounting hole		
	1	Crank Sprocket	90-89	223-691		20 Teeth		
	1	Cam Sprocket	90-89	223-684		40 Teeth		
	VALVE TRAIN	<b>CAMSHAFT/LIFTER</b>				VALVE TRAIN		
		QTY		YEARS			PART NO.	DESCRIPTION
		1	Camshaft	90-89			CS-1505	Do not install the steel washer between the flange and block; It is not needed with this camshaft
		1	Thrust Button	90-89			MR-1876	Hyd. rlr.
		12	Lifter	90-89			HT-2148 Std Only	Hyd. rlr.; Carton of 128
	12	Lifter, Bulk	90-89	HT-2148B Std Only				
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.				
VALVE TRAIN	<b>CAM KIT</b>				VALVE TRAIN			
QTY		YEARS	PART NO.	DESCRIPTION				
1	Cam/Lifter Kit	90-89	KC-1505	Hyd. rlr.; Do not install the steel washer between the flange and block; It is not needed with the CS-1505 camshaft; Incl. (1) CS-1505, (12) HT-2148, (1) 55-403B				
VALVE TRAIN	<b>PUSH ROD</b>				VALVE TRAIN			
QTY		YEARS	PART NO.	DESCRIPTION				
12	Push Rod	90-89	RP-3283	6.7200" O.A.L.				
VALVE TRAIN	<b>ROCKER PARTS</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
12	Bolt	90-89	MR-1887	Use to replace orig. bolt w/staked-on pivot				
12	Pivot	90-89	MR-1886	Use to replace orig. bolt w/staked-on pivot				
VALVE TRAIN	<b>VALVE</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
	6	Exhaust	90-89	V-3915 Std-15		Chrome plated stem; 1.4870" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.		
	6	Exhaust, Bulk	90-89	V-3915B15 15		Chrome plated stem; Carton of 25; 1.4870" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.		
	6	Intake	90-89	V-3916 Std-15		Chrome plated stem; 1.7100" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.		
6	Intake, Bulk	90-89	V-3916B15 15	Chrome plated stem; Carton of 25; 1.7100" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.				
VALVE TRAIN	<b>VALVE GUIDE</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
	12	Guide	90-89	VG-5006		Exh. & Int.; .3440" ID, 2.3750" O.A.L.		
12	Guide	90-89	VG-5006T	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.				
12	Guide, Bulk	90-89	VG-5006B	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.				
VALVE TRAIN	<b>VALVE SPRING</b>				VALVE TRAIN			
QTY		YEARS	PART NO.	DESCRIPTION				
12	Spring	90-89	VS-924	Exh. & Int.; w/o damper; 2.1100" Free Height				
VALVE TRAIN	<b>VALVE SEAL</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
12	Valve Stem Seal	90-89	MV-1888A	Positive type; Viton®				
12	Valve Stem Seal Bulk	90-89	MV-1888	Positive type; Carton of 50; Viton®				
VALVE TRAIN	<b>VALVE SEAT</b>				VALVE TRAIN			
QTY		YEARS	PART NO.	DESCRIPTION				
6	Int.	90-89	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth				
VALVE TRAIN	<b>VALVE, MISC</b>				VALVE TRAIN			
	QTY		YEARS	PART NO.		DESCRIPTION		
	24	Keeper	90-89	VK-115		1 groove; Square cut key groove		
	24	Keeper	90-89	VK-115R		1 groove; Square cut key groove; Hardened		
24	Keeper, Bulk	90-89	VK-115B	1 groove; Square cut key groove; Carton of 1000				

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## 38 3.3L 204 OHV V6 (Buick), 3.7" Bore 1990-89

(cont.) VIN Code "N" 1989-93

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-89	<b>H564P</b> Std.-50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.298" CD, .9054" Pin Dia., Recessed Head .135" deep x 2.768" dia.
6	Cast Piston - Individual	90-89	<b>WH564P</b> Std.-50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.298" CD, .9054" Pin Dia., Recessed Head .135" deep x 2.768" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	<b>E-533K</b> Std-20-30-40	2-1.50MM, 1-3.00MM
6	Premium Single Cylinder Set	90-89	<b>WE-533K</b> Std-30	2-1.50MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	<b>7144MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	90	<b>6-3760A</b> Std-1-10-20-30-40	.721" O.A.L.
1	Rod Set	90	<b>6-3760A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	90-89	<b>6-3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> .659" O.A.L.
1	Rod Set	90-89	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	90-89	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
6	Rod Pair	90	<b>3760A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> .721" O.A.L.
6	Rod Pair	90-89	<b>3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> .659" O.A.L.
1	Cam Set	90-89	<b>1755M</b> Std Only	Babbitt material
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	90-89	<b>224-51379</b>	
1	Screen Assy.	90-89	<b>224-14269</b>	For 4-3/4" deep oil pan
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	<b>260-1467</b>	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-89	<b>260-2533</b>	Replacement recommended

RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings;</b> PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.659" O.A.L. brgs.		Re-ring Re-ring w/Mains	<b>205-6140</b> <b>205-6140M</b>	----- -----
OVERHAUL KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings;</b> w/.721" O.A.L. brgs.		Block	<b>BK-6029</b>	-----
90-89	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings;</b> PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Do not install the steel washer on the camshaft between the flange and block; w/.659" O.A.L. brgs.		Master Master w/o Pistons	<b>MKP-6140A</b> <b>MK-6140A</b>	----- -----
90-89	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Do not install the steel washer on the camshaft between the flange and block		Master w/o Rods & Mains	<b>505-6140A</b>	-----

## 39 3.5L 215 OHV V8 (Buick), 3.5" Bore 1963-61

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	63-61	<b>KT3-359S</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-334
1	Timing Chain	63-61	<b>222-359</b>	54 Links
1	Crank Sprocket	63-61	<b>223-323</b>	20 Teeth
1	Cam Sprocket	63-61	<b>223-334</b>	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	63-61	<b>CS-364</b>	
16	Lifter	63-61	<b>HT-896</b> Std Only	Hyd.
16	Lifter, Bulk	63-61	<b>HT-896B</b> Std Only	Hyd.; Carton of 126
1	Prelube	63-61	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	63-61	<b>R-1051</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	63-61	<b>V-1550</b> Std Only	1.3110" Head Dia., .3392" Stem Dia., 4.6063" O.A.L.

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**3.5L 215 OHV V8 (Buick), 3.5" Bore 1963-61 39**

(cont.)

<b>VALVE TRAIN</b>		<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Guide	63-61	<b>VG-585</b>	.3435" ID, 2.6090" O.A.L.
		16	<b>VALVE SPRING</b> Spring	63-61	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
		16	<b>VALVE SEAL</b> Valve Stem Seal	63-61	<b>ST-2001</b>	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE
		16	Valve Stem Seal Bulk	63-61	<b>ST-2001BC</b>	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
		8	<b>VALVE SEAT</b> Exh.	63-61	<b>245-1437-3N</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
		8	Exh.	63-61	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
		8	Int.	63-61	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
		8	Int.	63-61	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
		32	<b>VALVE, MISC</b> Keeper	63-61	<b>VK-194</b>	
<b>BLOCK</b>		8	<b>PISTON</b> Cast Piston	61	<b>71P20</b> 20-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.843" CD, .8750" Pin Dia., Recessed Head .156" deep x 2.8125" dia.
		8	Cast Piston - Individual	61	<b>W71P20</b> 20-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.843" CD, .8750" Pin Dia., Recessed Head .156" deep x 2.8125" dia.
		1	<b>RINGS</b> Premium Set	63-61	<b>E-236K</b> Std-30	2-5/64, 1-3/16
		1	Standard Set	63-61	<b>E-236X</b> Std-30-40	2-5/64, 1-3/16
		8	Premium Single Cylinder Set	63-61	<b>WE-236K</b> Std-30	2-5/64, 1-3/16
		8	Standard Single Cylinder Set	63-61	<b>WE-236X</b> Std-30-40	2-5/64, 1-3/16
		8	<b>SLEEVE</b> Repair Sleeve	63-61	<b>SL-15M</b> Std Only	3/32" wall, Must be cut to correct length
		1	<b>ENGINE BEARINGS</b> Main Set	63-61	<b>4096MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b>
		1	Main Set	63-61	<b>7427MA40</b> 40	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
		1	Rod Set	63-61	<b>8-2500RAA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
8	Rod Pair	63-61	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
1	Cam Set	63-61	<b>1421M</b> Std Only			
		1	<b>OIL PUMP</b> Pump Repair Kit	63-61	<b>224-518TP</b>	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions

**3.5L 215 OHV Turbo V8 (Oldsmobile), 3.5001" Bore 1963-62 40**

<b>VALVE TRAIN</b>		<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	3 Piece Set	63-62	<b>KT3-359S</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-334
		1	Timing Chain	63-62	<b>222-359</b>	54 Links
		1	Crank Sprocket	63-62	<b>223-323</b>	20 Teeth
		1	Cam Sprocket	63-62	<b>223-334</b>	40 Teeth
		1	<b>CAMSHAFT/LIFTER</b> Camshaft	63-62	<b>CS-364</b>	
		16	Lifter	63-62	<b>HT-896</b> Std Only	Hyd.
		16	Lifter, Bulk	63-62	<b>HT-896B</b> Std Only	Hyd.; Carton of 126
		1	Prelube	63-62	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
		16	<b>ROCKER PARTS</b> Arm	63-62	<b>R-1051</b>	
		8	<b>VALVE</b> Exhaust	63-62	<b>V-1550</b> Std Only	1.3110" Head Dia., .3392" Stem Dia., 4.6063" O.A.L.
		8	<b>VALVE GUIDE</b> Guide	63-62	<b>VG-585</b>	.3435" ID, 2.6090" O.A.L.
		16	<b>VALVE SPRING</b> Spring	63-62	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
		16	<b>VALVE SEAL</b> Valve Stem Seal	63-62	<b>ST-2001</b>	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE
		16	Valve Stem Seal Bulk	63-62	<b>ST-2001BC</b>	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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## 40 3.5L 215 OHV Turbo V8 (Oldsmobile), 3.5001" Bore 1963-62

(cont.)

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	63-62	245-1437-3N Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
8	Exh.	63-62	245-1437-3 Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
8	Int.	63-62	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	63-62	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	63-62	VK-194	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	63-62	E-236K Std-30	2-5/64, 1-3/16
1	Standard Set	63-62	E-236X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	63-62	WE-236K Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	63-62	WE-236X Std-30-40	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	63-62	SL-15M Std Only	3/32" wall, Must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-62	4096MA Std-10-20-30	A-Series aluminum bearings
1	Main Set	63-62	7427MA40 40	A-Series aluminum bearings; w/.020" O/S length flange brg.
1	Rod Set	63-62	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	63-62	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	63-62	1421M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	63-62	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions

## 41 3.5L 215 OHV L6 (Pontiac), 3.75" Bore 1965-64

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	65-64	221-2537	27 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	65-64	CS-633	
12	Lifter	65-64	HT-817 Std Only	Hyd.
12	Lifter, Bulk	65-64	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	65-64	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	65-64	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	65-64	RP-3180	9.6800" O.A.L.
12	Push Rod, Bulk	65-64	BRP-3180	Carton of 100; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	65-64	R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk	65-64	R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm	65-64	R-832A	
12	Stud	65-64	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	65-64	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	65-64	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	65-64	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	65-64	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	65-64	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	65-64	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	65-64	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	65-64	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	65-64	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	65-64	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	65-64	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	65-64	VK-115	1 groove; Square cut key groove
24	Keeper	65-64	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	65-64	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	65-64	259-105B	.030"; Carton of 100

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**3.5L 215 OHV L6 (Pontiac), 3.75" Bore 1965-64 41**

(cont.)

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin	65-64	P-2208 Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	65-64	E-222K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	65-64	E-222X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	65-64	WE-222K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	65-64	WE-222X Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	65-64	SL-19M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	65-64	4124MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings
1	Rod Set	65-64	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set	65-64	6-2020CA60 60	Unplated & resizeable
6	Rod Pair	65-64	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	65-64	1203M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	65-64	224-4147	
1	Oil Pump	65-64	224-4157	High Volume, check pan for clearance
1	Screen Assy.	65-64	224-1347	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	65-64	260-1005	

**3.5L 216.5 OHV L6 (Chevrolet), 3.5" Bore 1952-37 42**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	52-46	221-2537	27 Teeth
1	Cam Gear	52-46	221-2514	Alum.; 54 Teeth
1	Cam Gear	52-46	221-2500	Silent type; 54 Teeth
1	Cam Gear	42-37	221-2514	Alum.; 54 Teeth
1	Cam Gear	42-37	221-2500	Silent type; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	52-46	CS-338	
1	Camshaft	42-37	CS-338	
1	Prelube	52-46	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	42-37	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	52-46	RP-3019	10.4650" O.A.L.
12	Push Rod	42-37	RP-3019	10.4650" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Nut	52-46	MR-1940	7/16-20 thread
6	Nut	42-40	MR-1940	7/16-20 thread
6	Adj. Screw	52-46	MR-1939	7/16-20 thread
6	Adj. Screw	42-40	MR-1939	7/16-20 thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	52-50	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	52-46	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust	49-46	V-957 Std Only	1.4665" Head Dia., .3402" Stem Dia., 4.8760" O.A.L.
6	Exhaust	42-41	V-957 Std Only	1.4665" Head Dia., .3402" Stem Dia., 4.8760" O.A.L.
6	Exhaust, Bulk	52-46	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	52-46	V-958 Std Only	1.6410" Head Dia., .3412" Stem Dia., 6.2830" O.A.L.
6	Intake	42-41	V-958 Std Only	1.6410" Head Dia., .3412" Stem Dia., 6.2830" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	52-46	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.
6	Guide	52-46	VG-473	Int.; .3435" ID, 3.3400" O.A.L.
6	Guide	42-41	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.
6	Guide	42-37	VG-473	Int.; .3435" ID, 3.3400" O.A.L.
6	Guide	40-37	VG-509	Exh.; .3435" ID, 2.1880" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	52-46	VS-424	2.2500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	52-46	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	42-37	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	52-46	MV-1233C	O-Ring; Rubber

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## 42 3.5L 216.5 OHV L6 (Chevrolet), 3.5" Bore 1952-37

(cont.)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	42-37	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	52-46	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	52-46	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	42-37	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	42-37	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6		52-46	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6		52-46	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
6	Exh.	52-46	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.	52-46	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6		42-41	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6	Exh.	42-41	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.	42-41	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	52-46	VK-115	1 groove; Square cut key groove
24	Keeper	52-46	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper	42-37	VK-115	1 groove; Square cut key groove
24	Keeper	42-37	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	52-46	VK-115B	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	42-37	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	52-46	259-200B	.030"; Carton of 100
12	Spring Insert	52-46	259-200A	.060"; Carton of 100
12	Spring Insert	42-37	259-200B	.030"; Carton of 100
12	Spring Insert	42-37	259-200A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	52-46	1012P Std-30-40-60	Cast; 2-1/8", 1-3/16" Ring Groove, 2.047" CD, .8650" Pin Dia., Flat Head - 6.5:1 C.R.; Not factory duplicate; Repl. in sets only
6	Cast Piston	42-41	1012P Std-30-40-60	Cast; 2-1/8", 1-3/16" Ring Groove, 2.047" CD, .8650" Pin Dia., Flat Head - 6.5:1 C.R.; Not factory duplicate; Repl. in sets only
6	Cast Piston - Individual	52-46	W1012P Std-30-40-60	Cast; 2-1/8", 1-3/16" Ring Groove, 2.047" CD, .8650" Pin Dia., Flat Head - 6.5:1 C.R.; Not factory duplicate; Repl. in sets only
1	Cast Piston - Individual	42-41	W1012P Std-30-40-60	Cast; 2-1/8", 1-3/16" Ring Groove, 2.047" CD, .8650" Pin Dia., Flat Head - 6.5:1 C.R.; Not factory duplicate; Repl. in sets only
12	Pin Bushing	52-46	9559X	2 req'd. per rod
12	Pin Bushing	42-40	9559X	2 req'd. per rod
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	52-46	E-103X Std-30	2-1/8, 1-3/16
1	Standard Set	42-37	E-103X Std-30	2-1/8, 1-3/16
6	Standard Single Cylinder Set	52-46	WE-103X Std Only	2-1/8, 1-3/16
6	Standard Single Cylinder Set	42-37	WE-103X Std Only	2-1/8, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	52-46	SL-15M Std Only	3/32" wall, Must be cut to correct length
6	Repair Sleeve	42-37	SL-15M Std Only	3/32" wall, Must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	52-48	648M Std-10-20-30	Use w/FSM-105S shim set
1	Shim Set	52-48	FSM-105S	
1	Shim Set	52-46	FSM-104S	
1	Shim Set	42-37	FSM-104S	
6	Rod Pair	52-46	1415SB10 10-20	Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
1	Rod Pair	42-37	1415SB10 10-20	Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
1	Cam Set	52-46	1094M Std Only	
1	Cam Set	42-37	1094M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	52-46	224-4140	
1	Oil Pump	42-37	224-4140	

## 43 3.7L 225 OHV V6 (Buick), 3.75" Bore 1967-64

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-64	KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334

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<b>QTY</b>	<b>TIMING (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Chain	67-64	<b>222-359</b>	54 Links
1	Crank Sprocket	67-64	<b>223-323</b>	20 Teeth
1	Cam Sprocket	67-64	<b>223-334</b>	40 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	67-64	<b>CS-657</b>	
12	Lifter	67-64	<b>HT-896</b> Std Only	Hyd.
12	Lifter, Bulk	67-64	<b>HT-896B</b> Std Only	Hyd.; Carton of 126
1	Prelube	67-64	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	67-65	<b>RP-3173</b>	8.7230" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm	67-64	<b>R-1051</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	67-65	<b>V-1744</b> Std Only	1.3750" Head Dia., .3401" Stem Dia., 4.5430" O.A.L.
6	Intake	67-65	<b>V-1745</b> Std Only	1.6250" Head Dia., .3410" Stem Dia., 4.5430" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	65	<b>VG-5034</b>	Int.; Cut to fit; .3430" ID, 2.5000" O.A.L.
12	Guide	64	<b>VG-5034</b>	Exh. & Int.; Cut to fit; .3430" ID, 2.5000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	66-65	<b>VS-644</b>	2.0300" Free Height
12	Spring	64	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	67-64	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	67-64	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	67-64	<b>245-1437-3N</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	67-64	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	67-64	<b>245-1750-1N</b> Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	67-64	<b>245-1750-1</b> Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	67-64	<b>VK-194</b>	
12	Spring Insert	67-64	<b>259-201B</b>	.030"; Carton of 100
12	Spring Insert	67-64	<b>259-201A</b>	.060"; Carton of 100
12	Spring Insert	67-64	<b>259-201ARS</b>	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	67-64	<b>1110P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	67-64	<b>W1110P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	67-64	<b>E-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-64	<b>E-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	67-64	<b>WE-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	67-64	<b>WE-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Repair Sleeve	67-64	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	67-64	<b>7144MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	67-64	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
1	Rod Set	67-64	<b>6-2500RAA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
6	Rod Pair	67-64	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set	67-64	<b>1205M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pump Repair Kit	67-64	<b>224-51382</b>	Gear type
1	Pump Repair Kit	67-64	<b>224-518</b>	High Volume; Installation may require timing cover removal
1	Pump Repair Kit	67-64	<b>224-518V</b>	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Pump Repair Kit	67-64	<b>224-518TP</b>	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

# GM Car

## 44 3.8L 229 OHV V6 (Chevrolet), 3.736" Bore 1984-80

VIN Codes "K" 1980-82, "9" 1983-84

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	84-80	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	84-80	KT3-499SA	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
1	Timing Set w/Gaskets	84-80	CTS-1000	w/.405" tooth width sprocket
1	Timing Chain	84-80	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	84-80	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	84-80	223-505	Steel; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	84-80	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	84-80	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	84-80	CS-712	
12	Lifter	84-80	HT-817 Std Only	Hyd.
12	Lifter, Bulk	84-80	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	84-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	84-80	KC-712	Hyd.; Incl. (1) CS-712, (12) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-80	KCT-712	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-712, (12) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	84-80	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
12	Push Rod	84-80	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
12	Push Rod	84-80	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
12	Push Rod	84-80	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
12	Push Rod	84-80	RP-3093	7.7940" O.A.L.
12	Push Rod, Bulk	84-80	BRP-3093	Carton of 100; 7.7940" O.A.L.
12	Push Rod, Bulk	84-80	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	84-80	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	84-80	R-826	Incl. arm, ball & nut
12	Arm Assy., Bulk	84-80	R-826B	Incl. arm, ball & nut; Carton of 64
12	Arm	84-80	R-826A	
12	Nut	84-80	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	84-80	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	84-80	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	84-80	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	84-80	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Intake	84-80	V-2143 Std-3-5-15	Chrome plated stem; 1.8390" Head Dia., .3410" Stem Dia., 4.9120" O.A.L.
6	Intake, Bulk	84-80	V-2143B Std-15	Chrome plated stem; Carton of 25; 1.8400" Head Dia., .3413" Stem Dia., 4.9120" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	84-80	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	84-80	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	84-80	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	84-80	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	84-80	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	84-80	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	84-80	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	84-80	VS-677	Incl. damper; 2.0300" Free Height
12	Spring, Bulk	84-80	VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	84-81	MV-1920	Exh.; Umbrella type; Nylon
6	Valve Stem Seal	84-81	MV-1888C	Int.; Positive type; Viton®
12	Valve Stem Seal	84-80	MV-1233C	Exh. & Int.; O-Ring; Rubber
6	Valve Stem Seal Bulk	84-81	MV-1888	Int.; Positive type; Carton of 50; Viton®
12	Valve Stem Seal Bulk	84-80	MV-1233	Exh. & Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	84-80	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	84-80	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	84-80	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	84-80	VK-115	1 groove; Square cut key groove
24	Keeper	84-80	VK-115R	1 groove; Square cut key groove; Hardened

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**3.8L 229 OHV V6 (Chevrolet), 3.736" Bore 1984-80 44**

VIN Codes "K" 1980-82, "9" 1983-84 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
24	Keeper, Bulk	84-80	VK-115B	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	84-80	259-203C	.015"; Carton of 100	
12	Spring Insert	84-80	259-203B	.030"; Carton of 100	
12	Spring Insert	84-80	259-203BRS	.030"; Carton of 500	
12	Spring Insert	84-80	259-203A	.060"; Carton of 100	
12	Spring Insert	84-80	259-203ARS	.060"; Carton of 500	
6	Rotacap	84-80	RC-157S		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Cast Piston	84-80	698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.	
6	Cast Piston - Individual	84-80	W698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	84-80	E-414K Std-30-40	2-5/64, 1-3/16	
1	Standard Set	84-80	E-414X Std-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	84-80	WE-414K Std-30-40	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	84-80	WE-414X Std-30-40	2-5/64, 1-3/16	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	84-80	5085M Std-1-10-20-30-40		
1	Main Set	84-80	6687M10 10-20-30	.020" O/S length flange brg.	
1	Main Set	84-80	5085MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Rod Set	84-80	6-3750P Std-10-20-30-40		
1	Rod Pair	84-80	3750P Std-1-10-20-30-40		
1	Cam Set	84-80	1463M Std-1	Babbitt material; Full round design	
1	Cam Set	84-80	1791M Std Only	O.E. split type design	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	84-80	224-4146A	High Pressure; 5/8" inlet	
1	Oil Pump	84-80	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
1	Oil Pump	84-80	224-4146	5/8" inlet	
1	Inter. Shaft	84-80	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	84-80	224-6146	Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	84-80	224-43343	Nylon	
1	Screen Assy.	84-80	224-1246	5/8" inlet tube	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	84-80	260-1101	Premium valve stem seals incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	84-80	381-8049		
1	Steel Block Plug Kit	84-80	381-9676		
<b>KITS</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	84-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring w/Mains	205-692M	205-192M
	84-80	Premium valve stem seals incl.	Re-ring	205-692	205-192
<b>KITS</b>	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	84-80	Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-692A MK-692A	MKP-192A MK-192A
	84-80	Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-692A	505-192A

**3.8L 230 OHV L6 (Chevrolet), 3.875" Bore 1970-63 45**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	70-65	221-2525S	Incl. (1) 221-2524, (1) 221-2537
1	Gear Set	64-63	221-2523S	Incl. (1) 221-2522, (1) 221-2537
1	Crank Gear	70-63	221-2537	27 Teeth
1	Cam Gear	70-65	221-2524	Alum.; 54 Teeth
1	Cam Gear	64-63	221-2522	Alum.; 54 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	70-63	CS-633	
12	Lifter	70-63	HT-817 Std Only	Hyd.
12	Lifter, Bulk	70-63	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	70-63	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	70-63	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B

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## 45 3.8L 230 OHV L6 (Chevrolet), 3.875" Bore 1970-63

(cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	70-65	<b>KCT-633A</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B
1	Cam/Lifter/Timing Kit	64-63	<b>KCT-633</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2523S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	70-63	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.
12	Push Rod	70-63	<b>RP-3180</b>	9.6800" O.A.L.
12	Push Rod, Bulk	70-63	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	70-63	<b>R-832</b>	Incl. arm, ball & nut
12	Arm Assy., Bulk	70-63	<b>R-832B</b>	Incl. arm, ball & nut; Carton of 64
12	Arm	70-63	<b>R-832A</b>	
12	Pivot Ball	70-63	<b>MR-1780</b>	
12	Nut	70-63	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
12	Stud	70-63	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	70-63	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	70-63	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	70-63	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust	70-63	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	70-63	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	70-63	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Intake	70-63	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake	70-63	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	70-63	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	70-63	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	70-63	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	70-63	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	70-65	<b>VS-653</b>	1.9000" Free Height
12	Spring	64-63	<b>VS-521</b>	W/Rotocaps; Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	70-63	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	70-63	<b>MV-1233C</b>	O-Ring; Rubber
12	Valve Stem Seal Bulk	70-63	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	70-63	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	70-63	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	70-63	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	70-63	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	70-63	<b>VK-115</b>	1 groove; Square cut key groove
12	Keeper	70-63	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	70-63	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	70-63	<b>259-203C</b>	.015"; Carton of 100
12	Spring Insert	70-63	<b>259-203B</b>	.030"; Carton of 100
12	Spring Insert	70-63	<b>259-203BRS</b>	.030"; Carton of 500
12	Spring Insert	70-63	<b>259-203A</b>	.060"; Carton of 100
12	Spring Insert	70-63	<b>259-203ARS</b>	.060"; Carton of 500
6	Rotocap	68-63	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	70-63	<b>1107P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 1107NP
6	Cast Piston	70-63	<b>1107NP *</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
6	Pin	70-63	<b>P-2208</b> Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	70-63	<b>E-234K</b> Std-20-30-40-60	2-5/64, 1-3/16

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**3.8L 230 OHV L6 (Chevrolet), 3.875" Bore 1970-63 45**

(cont.)

BLOCK		QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
		1	Standard Set	70-63	<b>E-234X</b> Std-20-30-40-60	2-5/64, 1-3/16
		6	Premium Single Cylinder Set	70-63	<b>WE-234K</b> Std-20-30-40-60	2-5/64, 1-3/16
		6	Standard Single Cylinder Set	70-63	<b>WE-234X</b> Std-20-30-40-60	2-5/64, 1-3/16
BLOCK		QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
		6	Repair Sleeve	70-63	<b>SL-20Y</b> Std Only	1/8" wall, must be cut to correct length
BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
		1	Main Set	70-63	<b>4124MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
		1	Rod Set	70-63	<b>6-2020CP</b> Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
		1	Rod Set	70-63	<b>6-2020CA60</b> 60	Unplated & resizeable
		6	Rod Pair	70-63	<b>2020CP</b> Std-1-2-10-20-30-40-50	
		1	Cam Set	70-63	<b>1203M</b> Std Only	
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
		1	Oil Pump	70-63	<b>224-4147</b>	
		1	Oil Pump	70-63	<b>224-4157</b>	High Volume, check pan for clearance
		1	Screen Assy.	70-68	<b>224-1347</b>	
		1	Screen Assy.	67	<b>224-1347</b>	Exc. Chevy II
BLOCK		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
		1	Kit Gasket Set	70-63	<b>260-1005</b>	
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
		1	Brass Block Plug Kit	70-63	<b>381-8006</b>	
KITS		RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
		70-63	DESCRIPTION	Re-ring	<b>205-614</b>	<b>205-114</b>
		70-63	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-614M</b>	<b>205-114M</b>
KITS		OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
		70-65	DESCRIPTION	Master w/o Rods & Mains	<b>505-614D</b>	<b>505-114D</b>
		70-65	Incl. <b>A-Series aluminum bearings</b>	Master	<b>MKP-614D</b>	<b>MKP-114D</b>
				Master w/o Pistons	<b>MK-614D</b>	<b>MK-114D</b>

**3.8L 230 SOHC L6 (Pontiac), 3.875" Bore 1967-66 46**

VALVE TRAIN		QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
		6	Guide	67-66	<b>VG-5061</b>	Exh.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; .3430" ID, 2.3800" O.A.L.
		12	Guide	67-66	<b>VG-5002</b>	Exh. & Int.; Eng. Codes "ZF", "ZG", "ZK", "ZM", "ZN" & "ZS"; .3420" ID, 3.0600" O.A.L.
		12	Guide	67-66	<b>VG-5002T</b>	Exh. & Int.; Eng. Codes "ZF", "ZG", "ZK", "ZM", "ZN" & "ZS"; Threaded; .3430" ID, 3.0630" O.A.L.
		6	Guide	67-66	<b>VG-5005</b>	Int.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; .3430" ID, 2.2500" O.A.L.
		6	Guide	67-66	<b>VG-5005H</b>	Int.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; Hardened; .3430" ID, 2.2500" O.A.L.
		6	Guide	67-66	<b>VG-5005T</b>	Int.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; Threaded; .3425" ID, 2.2500" O.A.L.
		12	Guide, Bulk	67-66	<b>VG-5002B</b>	Exh. & Int.; Eng. Codes "ZF", "ZG", "ZK", "ZM", "ZN" & "ZS"; Carton of 50; .3420" ID, 3.0600" O.A.L.
		12	Guide, Bulk	67-66	<b>VG-5002TB</b>	Exh. & Int.; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
		6	Guide, Bulk	67-66	<b>VG-5005B</b>	Int.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; Carton of 50; .3430" ID, 2.2500" O.A.L.
		6	Guide, Bulk	67-66	<b>VG-5005TB</b>	Int.; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
VALVE TRAIN		QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
		12	Spring	67-66	<b>VS-651</b>	Inner; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; 1.7600" Free Height
		12	Spring	67-66	<b>VS-665</b>	Outer; Eng. Codes "ZD", "ZE", "ZL" & "ZR"; 1.9400" Free Height
VALVE TRAIN		QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
		12	Valve Stem Seal	67-66	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
		12	Valve Stem Seal	67-66	<b>ST-2092</b>	Positive type; Rubber
		12	Valve Stem Seal	67-66	<b>MV-1233C</b>	O-Ring; Rubber
		12	Valve Stem Seal Bulk	67-66	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
		12	Valve Stem Seal Bulk	67-66	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber

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(cont.)

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	67-66	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Exh.	67-66	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	67-66	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	67-66	VK-115	1 groove; Square cut key groove
24	Keeper	67-66	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	67-66	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	67-66	259-301A	.060"; Carton of 100
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	67-66	E-234K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-66	E-234X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	67-66	WE-234K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	67-66	WE-234X Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	67-66	SL-20Y Std Only	1/8" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-66	4124MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings
1	Rod Set	67-66	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set	67-66	6-2020CA60 60	Unplated & resizeable
6	Rod Pair	67-66	2020CP Std-1-2-10-20-30-40-50	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	67-66	381-8006	

## 47 3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75

VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 & 2004-2008, "3" 1984-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-86	KT3-381SA	VIN Code "C"; w/3 bolt cam sprocket mounting; Incl. (1) 222-375, (1) 223-718, (1) 223-729
1	3 Piece Set	90-86	KT3-359SA2	VIN Codes "B" & "3"; Incl. crank sprocket w/double flats & 36MM balancer hub; Incl. (1) 222-359, (1) 223-610, (1) 223-621
1	3 Piece Set	90-86	KT3-381S	VIN Codes "C" & "L"; w/1 bolt cam sprocket mounting; Incl. (1) 222-375, (1) 223-716, (1) 223-729
1	3 Piece Set	87-86	KT3-359SA1	VIN Code "A"; Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	3 Piece Set	85-78	KT3-359SA1	Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	3 Piece Set	85-78	KT3-359SA2	Incl. crank sprocket w/double flats & 36MM balancer hub; Incl. (1) 222-359, (1) 223-610, (1) 223-621
1	3 Piece Set	77	KT3-359SA1	w/Integral dist. drive gear; Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	3 Piece Set	77-75	KT3-359S	w/o Integral dist. drive gear; Incl. (1) 222-359, (1) 223-323, (1) 223-334
1	Timing Chain	90-88	222-375	VIN Codes "C", "L" & "1"; 54 Links
1	Timing Chain	88-75	222-359	Exc. VIN Codes "C" & "L"; 54 Links
1	Timing Chain Tensioner	90-88	222-175CT	
1	Timing Chain Tensioner	88-87	222-175CT	VIN Code "3"
1	Timing Chain Tensioner	87-86	222-44CT	R.H.; VIN Code "A"; Incl. spring
1	Timing Chain Tensioner	86	222-175CT	VIN Codes "B" & "3"
1	Timing Chain Tensioner	85-82	222-44CT	R.H.; VIN Codes "A" & "3"; Incl. spring
1	Timing Chain Tensioner	81-75	222-44CT	R.H.; Incl. spring
1	Crank Sprocket	90-86	223-621	VIN Codes "B" & "3"; Crank sprocket w/double flats & 36MM balancer hub; 20 Teeth
1	Crank Sprocket	90-86	223-729	VIN Codes "C" & "L"; 20 Teeth
1	Crank Sprocket	88-75	223-323	20 Teeth
1	Crank Sprocket	87-86	223-323	VIN Code "A"; 20 Teeth
1	Cam Sprocket	90-86	223-718	VIN Code "C"; w/3 bolt cam sprocket mounting; 40 Teeth
1	Cam Sprocket	90-86	223-610	VIN Codes "A", "B" & "3"; 40 Teeth
1	Cam Sprocket	90-86	223-716	VIN Codes "C" & "L"; w/1 bolt cam sprocket mounting; 40 Teeth
1	Cam Sprocket	87-77	223-610	w/Integral dist. drive gear; 40 Teeth
1	Cam Sprocket	77-75	223-334	w/o Integral dist. drive gear; 40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-1506	VIN Code "L"
1	Camshaft	90-89	CS-1505	VIN Code "C"; Do not install the steel washer between the flange and block; It is not needed with this camshaft
1	Camshaft	88	CS-702	VIN Code "3"
1	Camshaft	88	CS-836	VIN Code "3"
1	Camshaft	87	CS-836	VIN Code "3"

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**3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75 47**

VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 (cont.) & 2004-2008, "3" 1984-88

QTY		CAMSHAFT/LIFTER			DESCRIPTION
		(cont.)	YEARS	PART NO.	
1	1	Camshaft	87	<b>CS-702</b>	VIN Codes "A" & "3"
1	1	Camshaft	86	<b>CS-813</b>	VIN Code "B"
1	1	Camshaft	86	<b>CS-836</b>	VIN Code "3"
1	1	Camshaft	86	<b>CS-702</b>	VIN Codes "A" & "3"
1	1	Camshaft	85-84	<b>CS-702</b>	VIN Codes "A" & "3"
1	1	Camshaft	83-79	<b>CS-702</b>	VIN Code "A"
1	1	Camshaft	79	<b>CS-702</b>	VIN Code "2"
1	1	Thrust Button	90-89	<b>MR-1876</b>	VIN Code "C"
1	1	Thrust Button	88-84	<b>MR-1874</b>	VIN Codes "B" & "3"; Steel button
1	1	Performance Cam	80-77	<b>CS-1112R</b>	VIN Code "A"; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 114 Degrees
1	1	Performance Cam	80-77	<b>CS-1016R</b>	VIN Code "A"; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
1	1	Performance Cam	79-78	<b>CS-1016R</b>	VIN Code "2"; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
12	12	Lifter	90-88	<b>HT-2148</b> Std Only	Hyd. rlr.
12	12	Lifter	87-86	<b>HT-2148</b> Std Only	VIN Code "3"; Hyd. rlr.
12	12	Lifter	87-86	<b>HT-969</b> Std Only	VIN Codes "A" & "B"; Hyd.; w/.440" wide oil groove
12	12	Lifter	87-86	<b>HT-969R</b> Std Only	VIN Codes "A" & "B"; Speed-Pro Hi-Revolution Hyd.
12	12	Lifter	85-75	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove
12	12	Lifter	85-75	<b>HT-969R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
12	12	Lifter, Bulk	90-88	<b>HT-2148B</b> Std Only	Hyd. rlr.; Carton of 128
12	12	Lifter, Bulk	87-86	<b>HT-2148B</b> Std Only	VIN Code "3"; Hyd. rlr.; Carton of 128
12	12	Lifter, Bulk	87-86	<b>HT-969B</b> Std Only	VIN Codes "A" & "B"; Hyd.; Carton of 128
12	12	Lifter, Bulk	87-86	<b>HT-969RB</b> Std Only	VIN Codes "A" & "B"; Speed-Pro Hi-Revolution Hyd.; Carton of 128
12	12	Lifter, Bulk	85-75	<b>HT-969B</b> Std Only	Hyd.; Carton of 128
12	12	Lifter, Bulk	85-75	<b>HT-969RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	1	Prelube	90-77	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY		CAM KIT	YEARS	PART NO.	DESCRIPTION
1	1	Cam/Lifter Kit	90	<b>KC-1506</b>	VIN Code "L"; Hyd. rlr.; Incl. (1) CS-1506, (12) HT-2148, (1) 55-403B
1	1	Cam/Lifter Kit	90-89	<b>KC-1505</b>	VIN Code "C"; Hyd. rlr.; Do not install the steel washer between the flange and block; It is not needed with the CS-1505 camshaft; Incl. (1) CS-1505, (12) HT-2148, (1) 55-403B
1	1	Cam/Lifter Kit	88	<b>KC-702</b>	VIN Code "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	88	<b>KC-836</b>	VIN Code "3"; Hyd.; Incl. (1) CS-836, (12) HT-2148, (1) 55-403B
1	1	Cam/Lifter Kit	87	<b>KC-836</b>	VIN Code "3"; Hyd.; Incl. (1) CS-836, (12) HT-2148, (1) 55-403B
1	1	Cam/Lifter Kit	87	<b>KC-702</b>	VIN Codes "A" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	86	<b>KC-813</b>	VIN Code "B"; Hyd.; Incl. (1) CS-813, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	86	<b>KC-836</b>	VIN Code "3"; Hyd.; Incl. (1) CS-836, (12) HT-2148, (1) 55-403B
1	1	Cam/Lifter Kit	86	<b>KC-702</b>	VIN Codes "A" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	85-84	<b>KC-702</b>	VIN Codes "A" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	83-79	<b>KC-702</b>	VIN Code "A"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	80-77	<b>KC-1112R</b>	VIN Code "A"; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 114 Degrees; Incl. (1) CS-1112R, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	80-77	<b>KC-1016R</b>	VIN Code "A"; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	79	<b>KC-702</b>	VIN Code "2"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	1	Cam/Lifter Kit	79-78	<b>KC-1016R</b>	VIN Code "2"; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B

**VALVE TRAIN**

**VALVE TRAIN**

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**47 3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75**  
 (cont.) VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 & 2004-2008, "3" 1984-88

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	88	<b>KCT-702</b>	VIN Code "A"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	87-86	<b>KCT-702</b>	VIN Codes "A" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	86	<b>KCT-813</b>	VIN Code "B"; Hyd.; Incl. crank sprocket w/double flats & 36mm balancer hub; Incl. (1) CS-813, (12) HT-969, (1) KT3-359SA2, (1) 55-403B
1	Cam/Lifter/Timing Kit	85-84	<b>KCT-702</b>	VIN Codes "A" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-79	<b>KCT-702</b>	VIN Code "A"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	79	<b>KCT-702</b>	VIN Code "2"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-88	<b>RP-3285</b>	VIN Codes "C" & "L"; 7.9650" O.A.L.
12	Push Rod	88-86	<b>RP-3313</b>	VIN Code "3"; 7.8820" O.A.L.
12	Push Rod	88-86	<b>RP-3261</b>	VIN Code "3"; 7.9420" O.A.L.
12	Push Rod	87-86	<b>RP-3213R</b>	VIN Code "A"; Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	87-86	<b>RP-3164</b>	VIN Code "A"; 8.6930" O.A.L.
12	Push Rod	87-86	<b>RP-316435</b>	VIN Code "A"; 8.7280" O.A.L.
12	Push Rod	87-86	<b>RP-316460</b>	VIN Code "A"; 8.7530" O.A.L.
12	Push Rod	86	<b>RP-3253</b>	VIN Code "B"; 8.4710" O.A.L.
12	Push Rod	85-75	<b>RP-3213R</b>	Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	85-75	<b>RP-3164</b>	8.6930" O.A.L.
12	Push Rod	85-75	<b>RP-316435</b>	8.7280" O.A.L.
12	Push Rod	85-75	<b>RP-316460</b>	8.7530" O.A.L.
12	Push Rod	76-75	<b>RP-3261</b>	7.9420" O.A.L.
12	Push Rod, Bulk	90-88	<b>BRP-3285</b>	VIN Codes "C" & "L"; Carton of 100; 7.9650" O.A.L.
12	Push Rod, Bulk	88-86	<b>BRP-3261</b>	VIN Code "3"; Carton of 100; 7.9420" O.A.L.
12	Push Rod, Bulk	87-86	<b>BRP-3164</b>	VIN Code "A"; Carton of 100; 8.6930" O.A.L.
12	Push Rod, Bulk	86	<b>BRP-3253</b>	VIN Code "B"; Carton of 100; 8.4710" O.A.L.
12	Push Rod, Bulk	85-75	<b>BRP-3164</b>	Carton of 100; 8.6930" O.A.L.
12	Push Rod, Bulk	76-75	<b>BRP-3261</b>	Carton of 100; 7.9420" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	87-86	<b>R-947</b>	VIN Code "A"; Rocker arm w/on-center push rod socket; Incl. arm & retainer
6	Arm Assy.	87-86	<b>R-870</b>	L.H.; VIN Code "A"; Incl. arm & retainer; Stamped steel
12	Arm Assy.	85-75	<b>R-947</b>	Rocker arm w/on-center push rod socket; Incl. arm & retainer
6	Arm Assy.	85-75	<b>R-870</b>	L.H.; Incl. arm & retainer; Stamped steel
6	Arm	87-86	<b>R-870W</b>	L.H.; VIN Code "A"; Stamped steel
6	Arm	85-75	<b>R-870W</b>	L.H.; Stamped steel
12	Bolt	90-88	<b>MR-1887</b>	VIN Codes "C" & "L"; Use to replace orig. bolt w/staked-on pivot
12	Pivot	90-88	<b>MR-1886</b>	VIN Codes "C" & "L"; Use to replace orig. bolt w/staked-on pivot
12	Pivot	88-86	<b>MR-1885</b>	VIN Codes "B" & "3"; Pedestal type pivot; w/.375" ID hole
12	Retainer	87-86	<b>MR-1829</b>	VIN Code "A"
12	Retainer	85-75	<b>MR-1829</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-89	<b>V-3915</b> Std-15	VIN Codes "C" & "L"; Chrome plated stem; 1.4870" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.
6	Exhaust	88	<b>V-4168</b> Std-15	Exc. VIN Code "C"; Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust	88	<b>V-3915</b> Std-15	VIN Code "C"; Chrome plated stem; 1.4870" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.
6	Exhaust	87-79	<b>V-4168</b> Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	90-89	<b>V-3915B15</b> 15	VIN Codes "C" & "L"; Chrome plated stem; Carton of 25; 1.4870" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.
6	Exhaust, Bulk	88	<b>V-4168B</b> Std-15	Exc. VIN Code "C"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	88	<b>V-3915B15</b> 15	VIN Code "C"; Chrome plated stem; Carton of 25; 1.4870" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.
6	Exhaust, Bulk	87-79	<b>V-4168B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Intake	90-89	<b>V-3916</b> Std-15	VIN Codes "C" & "L"; Chrome plated stem; 1.7100" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.
6	Intake	88	<b>V-2117</b> Std-15	Exc. VIN Code "C"; Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.

(continued on next page)



**3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75 47**

VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "Z" 1978-79 (cont.) & 2004-2008, "3" 1984-88

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
6	Intake	88	V-3916 Std-15	VIN Code "C"; Chrome plated stem; 1.7100" Head Dia., .3405" Stem Dia., 4.7270" O.A.L.
6	Intake	87-79	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
6	Intake, Bulk	90-89	V-3916B15 15	VIN Codes "C" & "L"; Chrome plated stem; Carton of 25; 1.7100" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.
6	Intake, Bulk	88	V-3916B15 15	VIN Code "C"; Chrome plated stem; Carton of 25; 1.7100" Head Dia., .3555" Stem Dia., 4.7270" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90-88	VG-5006	Exh. & Int.; .3440" ID, 2.3750" O.A.L.
12	Guide	90-88	VG-5006T	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.
6	Guide	87-75	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
6	Guide	87-75	VG-5051T	Exh.; Threaded; .3440" ID, 2.5000" O.A.L.
6	Guide	87-75	VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
6	Guide	87-75	VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	87-75	VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
12	Guide, Bulk	90-88	VG-5006B	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.
6	Guide, Bulk	87-75	VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	87-75	VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	89	VS-924	VIN Code "C"; 2.1100" Free Height
12	Spring	87-86	VS-744	VIN Code "A"; 2.0200" Free Height
12	Spring	85-77	VS-744	Exc. Regal & Riviera; 2.0200" Free Height
12	Spring	76-75	VS-744	w/o damper; 2.0200" Free Height
12	Spring	76-75	VS-677	Incl. damper; 2.0300" Free Height
12	Spring, Bulk	76-75	VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-75	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	90-88	MV-1888A	Exh. & Int.; O.E. design; Positive type; Viton®
6	Valve Stem Seal	87-82	MV-1888A	Int.; O.E. design; Positive type; Viton®
12	Valve Stem Seal Bulk	90-88	MV-1888	Exh. & Int.; O.E. design; Positive type; Carton of 50; Viton®
12	Valve Stem Seal Bulk	90-75	ST-2001BC	Exh. & Int.; Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	87-82	MV-1888	Int.; O.E. design; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Int.	90-88	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
6	Exh.	90-79	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	90-79	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	87-79	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
6	Exh.	78-75	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	78-75	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	78-75	245-1750-1N Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	78-75	245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-77	VK-115	Exh. & Int.; 1 groove; Square cut key groove
24	Keeper	90-77	VK-115R	Exh. & Int.; 1 groove; Square cut key groove; Hardened
24	Keeper	76-75	VK-194	Exh. & Int.
24	Keeper, Bulk	90-77	VK-115B	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	90-75	259-201B	.030"; Carton of 100
12	Spring Insert	90-75	259-201A	.060"; Carton of 100
12	Spring Insert	90-75	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-88	H558P Std-.50-.75-1.00-1.50MM	VIN Codes "C" & "L"; Use w/E-532K ring set; Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.377" CD, .9054" Pin Dia., Recessed Head .260" deep x 3.050" dia. - 8.5:1 C.R.
6	Cast Piston	87-75	450NP Std-20-30-40-60	Use w/E-369K or E-369X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.
6	Cast Piston - Individual	90-88	WH558P Std-.50-.75-1.00-1.50MM	VIN Codes "C" & "L"; Use w/WE-532K ring set; Hypereutectic; 2-1.50mm, 1-3.00mm Ring Groove, 1.377" CD, .9054" Pin Dia., Recessed Head .260" deep x 3.050" dia. - 8.5:1 C.R.
6	Cast Piston - Individual	87-75	W450NP Std-20-30-40-60	Use w/WE-369K or WE-369X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

**47 3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75**  
 (cont.) VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 & 2004-2008, "3" 1984-88

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	87-75	<b>6K450NP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	<b>E-532K</b> Std-20-30-40-60	2-1.50MM, 1-3.00MM
1	Premium Set	88	<b>E-532K</b> Std-20-30-40-60	VIN Code "C"; 2-1.50MM, 1-3.00MM
1	Premium Set	88	<b>E-369K</b> Std-20-30-40-60	VIN Code "3"; 2-5/64, 1-3/16
1	Premium Set	87-75	<b>E-369K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-89	<b>E-532X</b> Std Only	2-1.50MM, 1-3.00MM
1	Standard Set	88	<b>E-532X</b> Std Only	VIN Code "C"; 2-1.50MM, 1-3.00MM
1	Standard Set	88	<b>E-369X</b> Std-20-30-40-60	VIN Code "3"; 2-5/64, 1-3/16
1	Standard Set	87-75	<b>E-369X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-89	<b>WE-532K</b> Std-20-30-40	2-1.50MM, 1-3.00MM
6	Premium Single Cylinder Set	88	<b>WE-532K</b> Std-20-30-40	VIN Code "C"; 2-1.50MM, 1-3.00MM
6	Premium Single Cylinder Set	88	<b>WE-369K</b> Std-20-30-40-60	VIN Code "3"; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	87-75	<b>WE-369K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	88	<b>WE-369X</b> Std-20-30-40-60	VIN Code "3"; 2-5/64, 1-3/16
6	Standard Single Cylinder Set	87-75	<b>WE-369X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	<b>7144MA</b> Std-1-10-20-30-40	w/1/2" main bolt; <b>A-Series aluminum bearings</b>
1	Main Set	90-75	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
1	Main Set	89-75	<b>7144MA</b> Std-1-10-20-30-40	w/1/2" main bolt; <b>A-Series aluminum bearings</b>
1	Rod Set	90	<b>6-3760A</b> Std-1-10-20-30-40	.721" O.A.L.
1	Rod Set	90	<b>6-3760A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	90	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	Exc. VIN Code "L"; Even fire Eng.; <b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	90	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Exc. VIN Code "L"; Even fire Eng.; Use in .002" O/S Rod Bore
1	Rod Set	90	<b>6-3755A</b> Std-1-10-20-30-40	VIN Code "C"; <b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Rod Set	89-77	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	Even fire Eng.; <b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	89-77	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Even fire Eng.; Use in .002" O/S Rod Bore
1	Rod Set	89-77	<b>6-3755A</b> Std-1-10-20-30-40	VIN Code "A"; Even fire; <b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Rod Set	77-75	<b>6-2500RAA</b> Std-10-20-30-40	VIN Code "C"; <b>A-Series aluminum bearings</b>
6	Rod Pair	90	<b>3760A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .721" O.A.L.
6	Rod Pair	90	<b>3755A</b> Std-1-10-20-30-40	VIN Code "C"; <b>A-Series aluminum bearings</b> ; .659" O.A.L.
6	Rod Pair	89-77	<b>3755A</b> Std-1-10-20-30-40	Even fire; <b>A-Series aluminum bearings</b> ; .659" O.A.L.
6	Rod Pair	77-75	<b>2500RAA</b> Std-1-2-10-20-30-40	VIN Code "C"; Odd fire; <b>A-Series aluminum bearings</b>
1	Cam Set	90-88	<b>1755M</b> Std Only	VIN Code "C"; Babbitt material
1	Cam Set	88-86	<b>1755M</b> Std Only	VIN Code "3"; Babbitt material
1	Cam Set	87-85	<b>1755M</b> Std Only	VIN Code "A"; Babbitt material
1	Cam Set	85	<b>1462M</b> Std Only	VIN Code "3"; w/14 bolt oil pan; Babbitt material
1	Cam Set	85	<b>1755M</b> Std Only	VIN Code "3"; w/20 bolt oil pan; Babbitt material
1	Cam Set	85-75	<b>1782M</b> Std Only	1st design; w/14 bolt oil pan; Special oil control set contains 360 degree groove OD front brg.
1	Cam Set	84	<b>1462M</b> Std Only	VIN Code "A"; w/14 bolt oil pan; Babbitt material
1	Cam Set	84	<b>1755M</b> Std Only	VIN Code "A"; w/20 bolt oil pan; Babbitt material
1	Cam Set	84	<b>1462M</b> Std Only	VIN Code "3"; Babbitt material
1	Cam Set	83-75	<b>1462M</b> Std Only	VIN Code "A"; Babbitt material
1	Cam Set	77-75	<b>1462M</b> Std Only	VIN Code "C"; Babbitt material
1	Ball Brg.	90-88	<b>205-L</b>	Position Front; Bal. shaft ball brg.
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	90	<b>224-51379</b>	VIN Codes "C" & "L"
1	Pump Repair Kit	89-88	<b>224-51379</b>	VIN Code "C"
1	Pump Repair Kit	89-88	<b>224-518</b>	VIN Code "2"; Gear type
1	Pump Repair Kit	87-86	<b>224-51379</b>	VIN Codes "B" & "3"
1	Pump Repair Kit	87-80	<b>224-518V</b>	VIN Code "A"; High Volume; Installation may require timing cover removal
1	Pump Repair Kit	87-80	<b>224-518TP</b>	VIN Code "A"; Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Pump Repair Kit	87-77	<b>224-51382</b>	VIN Code "A"
1	Pump Repair Kit	87-77	<b>224-518</b>	VIN Code "A"; Gear type
1	Pump Repair Kit	79-78	<b>224-51382</b>	VIN Code "2"
1	Pump Repair Kit	79-78	<b>224-518</b>	VIN Code "2"; Gear type
1	Pump Repair Kit	79-78	<b>224-518V</b>	VIN Codes "A" & "2"; High Volume; Installation may require timing cover removal

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**3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75 47**

VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 (cont.) & 2004-2008, "3" 1984-88

<b>QTY</b>	<b>OIL PUMP (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pump Repair Kit	79-78	<b>224-518TP</b>	VIN Codes "A" & "2"; Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Pump Repair Kit	77	<b>224-518V</b>	VIN Codes "A" & "C"; High Volume; Installation may require timing cover removal
1	Pump Repair Kit	77	<b>224-518TP</b>	VIN Codes "A" & "C"; Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Pump Repair Kit	77-75	<b>224-51382</b>	VIN Code "C"
1	Pump Repair Kit	77-75	<b>224-518</b>	VIN Code "C"; Gear type
1	Pump Repair Kit	76-75	<b>224-518V</b>	VIN Code "C"; High Volume; Installation may require timing cover removal
1	Pump Repair Kit	76-75	<b>224-518TP</b>	VIN Code "C"; Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Screen Assy.	90	<b>224-14269</b>	VIN Code "C"; 1st design; w/oil level indicator; For 4-3/4" deep oil pan
1	Screen Assy.	89	<b>224-14269</b>	VIN Code "C"; For 4-3/4" deep oil pan
1	Screen Assy.	88	<b>224-14269</b>	VIN Codes "3" & "C"; For 4-3/4" deep oil pan
1	Screen Assy.	87	<b>224-148</b>	VIN Code "A"
1	Screen Assy.	87	<b>224-14269</b>	VIN Code "3"; For 4-3/4" deep oil pan
1	Screen Assy.	86	<b>224-148</b>	VIN Code "A"
1	Screen Assy.	86	<b>224-138</b>	VIN Code "B"; Exc. Riviera; Exc. Toronado; 1st design; w/5.375" deep oil pan; For 5-3/8" deep oil pan
1	Screen Assy.	86	<b>224-138</b>	VIN Code "3"; 1st design w/5.34" deep oil pan; For 5-3/8" deep oil pan
1	Screen Assy.	86	<b>224-14269</b>	VIN Codes "3" & "B"; 2nd design; w/4.72" deep oil pan; For 4-3/4" deep oil pan
1	Screen Assy.	85	<b>224-148</b>	VIN Code "A"
1	Screen Assy.	85	<b>224-138</b>	VIN Code "3"; For 5-3/8" deep oil pan
1	Screen Assy.	84	<b>224-148</b>	VIN Code "A"
1	Screen Assy.	84	<b>224-138</b>	VIN Code "3"; For 5-3/8" deep oil pan
1	Screen Assy.	83-81	<b>224-128</b>	VIN Code "A"; For 5-1/4" deep oil pan
1	Screen Assy.	80	<b>224-128</b>	VIN Code "A"; 2nd design; w/5.25" deep oil pan; For 5-1/4" deep oil pan
1	Screen Assy.	79	<b>224-128</b>	VIN Codes "A", & "2"; 2nd design; w/5.25" deep oil pan; For 5-1/4" deep oil pan
1	Tool	76-75	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90	<b>260-1566</b>	VIN Code "L"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-88	<b>260-1469</b>	VIN Code "C"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88	<b>260-1465</b>	VIN Code "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87-86	<b>260-1138</b>	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87-86	<b>260-1236</b>	VIN Codes "B" & "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1181</b>	VIN Code "3"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-84	<b>260-1138</b>	VIN Code "A"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-84	<b>260-1182</b>	VIN Code "3"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84	<b>260-1149</b>	VIN Code "A"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	<b>260-1032</b>	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	<b>260-1149</b>	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	82-75	<b>260-1032</b>	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.

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# GM Car

## 47 3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75

(cont.) VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 & 2004-2008, "3" 1984-88

QTY	GASKETS (cont.)		YEARS	PART NO.	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
	1	Valley Pan Gasket Set	88-84	260-4006	VIN Codes "B" & "3"		
1	Valley Pan Gasket Set	87-85	260-4014	VIN Code "A"			
1	Valley Pan Gasket Set	84	260-4014	VIN Code "A"; w/Alum. manifold			
1	Valley Pan Gasket Set	84	260-4006	VIN Code "A"; w/Cast iron manifold			
1	Valley Pan Gasket Set	83-79	260-4006	VIN Code "A"			
1	Head Bolt Set	90	260-2533	VIN Codes "C" & "L"; Replacement recommended			
1	Head Bolt Set	89-88	260-2533	VIN Code "C"; Replacement recommended			
1	Head Bolt Set	88-86	260-2526	VIN Codes "B" & "3"; Replacement recommended			
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-85	381-8073				
1	Brass Block Plug Kit	84-75	381-8035				
1	Steel Block Plug Kit	84-75	381-4023				
RE-RING KIT							
YEARS	DESCRIPTION						
90	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		205-6141M	205-1141M	
90	VIN Code "C"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring		205-6141	205-1141	
90	VIN Code "L"; Exh. pipe packing not incl.; w/1/2" main bolt; Incl. <b>A-Series aluminum bearings</b> ; w/.721" O.A.L. brgs. PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		205-6415M	205-1415M	
90	VIN Code "L"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.721" O.A.L. brgs.		Re-ring		205-6415	205-1415	
90	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.659" O.A.L. brgs.		Re-ring w/Mains		----	205-1921M	
90	VIN Code "C"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.659" O.A.L. brgs.		Re-ring		----	205-1921	
90	VIN Code "L"; Exh. pipe packing not incl.; w/1/2" main bolt; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.721" O.A.L. brgs.		Re-ring w/Mains		----	205-1922M	
90	VIN Code "L"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; w/.721" O.A.L. brgs.		Re-ring		----	205-1922	
89	VIN Code "C"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring Re-ring w/Mains		205-6141 205-6141M	----	----
88	VIN Code "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring		205-6138	205-1138	
88	VIN Code "C"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring Re-ring w/Mains		205-6141 205-6141M	----	----
87	VIN Codes "B" & "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		Re-ring		205-6015	205-1015	

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VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 (cont.) & 2004-2008, "3" 1984-88

YEARS	RE-RING KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
87	VIN Codes "B" & "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6015M	205-1015M
87	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-725	205-225
86	VIN Codes "B" & "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6015	205-1015
86	VIN Codes "B" & "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6015M	205-1015M
86	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-725	205-225
85	VIN Code "3"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-772	205-272
85-84	VIN Code "A"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-725	205-225
85-84	VIN Code "3"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; w/Integral dist. drive gear; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring	205-773	205-273
84	VIN Code "A"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-724 205-724M	205-224 205-224M
83	VIN Code "A"; 1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6083 205-6083M	205-1083 205-1083M
83	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-724 205-724M	205-224 205-224M
82-78	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6083 205-6083M	205-1083 205-1083M
77	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6083 205-6083M	205-1083 205-1083M
77	VIN Code "C"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-691 205-691M	205-191 205-191M
76-75	VIN Code "C"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-691 205-691M	205-191 205-191M

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# GM Car

## 47 3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75

(cont.) VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 & 2004-2008, "3" 1984-88

YEARS	OVERHAUL KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90	VIN Code "L"; w/1/2" main bolt; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.721" O.A.L. brgs.	Block	BK-6040
90	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master	MKP-6141A	----
90	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master w/o Pistons	MK-6141A	----
90	VIN Code "C"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141A	----
90	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master Master w/o Pistons	MKP-6141E MK-6141E	---- ----
90	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141E	----
90	VIN Code "L"; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Oil pump & cam kit not incl.	Master w/o Rods & Mains	505-6222A	----
90	VIN Code "L"; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Freeze plugs not incl.	Master w/o Rods & Mains	505-6382A	----
90	VIN Code "L"; w/1/2" main bolt; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.721" O.A.L. brgs.	Master Master w/o Pistons	MKP-6405A MK-6405A	---- ----
89	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master	MKP-6141A	----
89	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master w/o Pistons	MK-6141A	----
89	VIN Code "C"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141A	----
89	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master Master w/o Pistons	MKP-6141E MK-6141E	---- ----

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**3.8L 231 OHV V6 (Buick), 3.8" Bore 1990-75 47**

VIN Codes "A" 1977-87, "B" 1986-87, "C" 1975-77 & 1988-91, "K" 1995-2005, "L" 1990-95, "2" 1978-79 (cont.) & 2004-2008, "3" 1984-88

YEARS	OVERHAUL KIT (cont.)		PREMIUM	ECONOMY
	DESCRIPTION		KIT NO.	KIT NO.
89	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141E	----
88	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master	MKP-6141A	----
88	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/3 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master w/o Pistons	MK-6141A	----
88	VIN Code "C"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit, Timing kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141A	----
88	VIN Code "C"; Exh. pipe packing not incl.; w/1/2" main bolt; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Master Master w/o Pistons	MKP-6141E MK-6141E	----
88	VIN Code "C"; Exh. pipe packing not incl.; Cam sprocket w/1 bolt camshaft mounting; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & oil pump kit not incl.	Master w/o Rods & Mains	505-6141E	----
87	VIN Code "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. crank sprocket w/double flats & 36MM balancer hub	Master w/o Rods & Mains	505-6015E	505-1015E
86	VIN Code "3"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. crank sprocket w/double flats & 36MM balancer hub	Master w/o Rods & Mains	505-6015E	505-1015E
84	VIN Codes "A" & "3"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; w/Integral dist. drive gear; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Rods & Mains	505-724A	505-224A
83	VIN Code "A"; 1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Rods & Mains	505-650E	505-150E
83	VIN Codes "A" & "3"; 2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; w/Integral dist. drive gear; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Rods & Mains	505-724A	505-224A
82-79	VIN Code "A"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Rods & Mains	505-650E	505-150E
77	VIN Code "C"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; w/Integral dist. drive gear; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master Master w/o Pistons	MKP-691C MK-691C	MKP-191C MK-191C

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**3.8L 231 OHV Turbo V6 (Buick), 3.8" Bore 1989-78 48**

VIN Codes "G" 1978, "3" 1978-82, "7" 1986-87 & 1989, "8" 1983, "9" 1984-85

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	89	KT3-359SA1	Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	3 Piece Set	87-78	KT3-359SA1	Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	Timing Chain	89	222-359	54 Links
1	Timing Chain	87-78	222-359	54 Links

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**48 3.8L 231 OHV Turbo V6 (Buick), 3.8" Bore 1989-78**  
 (cont.) VIN Codes "G" 1978, "3" 1978-82, "7" 1986-87 & 1989, "8" 1983, "9" 1984-85

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	89	222-44CT	Incl. spring
1	Timing Chain Tensioner	87-78	222-44CT	Incl. spring
1	Crank Sprocket	89	223-323	20 Teeth
1	Crank Sprocket	87-78	223-323	20 Teeth
1	Cam Sprocket	89	223-610	40 Teeth
1	Cam Sprocket	87-78	223-610	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89	CS-792	
1	Camshaft	87-86	CS-792	
1	Camshaft	85-84	CS-792	VIN Code "9"; Regal
1	Camshaft	85-84	CS-702	VIN Code "9"; Riviera
1	Camshaft	83	CS-702	VIN Code "8"
1	Camshaft	82-79	CS-702	VIN Code "3"
1	Camshaft	78	CS-702	VIN Codes "G" & "3"
1	Performance Cam	80-78	CS-1112R	VIN Code "3"; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	80-78	CS-1016R	VIN Code "3"; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	78	CS-1016R	VIN Code "G"; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees
12	Lifter	89	HT-969 Std Only	Hyd.; w/.440" wide oil groove
12	Lifter	89	HT-969R Std Only	Speed-Pro Hi-Revolution Hyd.
12	Lifter	87-78	HT-969 Std Only	Hyd.; w/.440" wide oil groove
12	Lifter	87-78	HT-969R Std Only	Speed-Pro Hi-Revolution Hyd.
12	Lifter, Bulk	89	HT-969B Std Only	Hyd.; Carton of 128
12	Lifter, Bulk	89	HT-969RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
12	Lifter, Bulk	87-78	HT-969B Std Only	Hyd.; Carton of 128
12	Lifter, Bulk	87-78	HT-969RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	87-78	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	89	KC-792	Hyd.; Incl. (1) CS-792, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	87-86	KC-792	Hyd.; Incl. (1) CS-792, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	85-84	KC-792	VIN Code "9"; Regal; Hyd.; Incl. (1) CS-792, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	85-84	KC-702	VIN Code "9"; Riviera; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	83	KC-702	VIN Code "8"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	82-79	KC-702	VIN Code "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	80-78	KC-1112R	VIN Code "3"; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 114 Degrees; Incl. (1) CS-1112R, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	80-78	KC-1016R	VIN Code "3"; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	78	KC-1016R	VIN Code "G"; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	78	KC-702	VIN Codes "G" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	85-84	KCT-702	VIN Code "9"; Riviera; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	83	KCT-702	VIN Code "8"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-79	KCT-702	VIN Code "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
1	Cam/Lifter/Timing Kit	78	KCT-702	VIN Codes "G" & "3"; Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	89	RP-3253	8.4710" O.A.L.
12	Push Rod	87-78	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	87-78	RP-3164	8.6930" O.A.L.
12	Push Rod	87-78	RP-316435	8.7280" O.A.L.
12	Push Rod	87-78	RP-316460	8.7530" O.A.L.

VALVE TRAIN

VALVE TRAIN

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**3.8L 231 OHV Turbo V6 (Buick), 3.8" Bore 1989-78 48**

VIN Codes "G" 1978, "3" 1978-82, "7" 1986-87 & 1989, "8" 1983, "9" 1984-85 (cont.)

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
12	Push Rod, Bulk	89	BRP-3253	Carton of 100; 8.4710" O.A.L.
12	Push Rod, Bulk	87-78	BRP-3164	Carton of 100; 8.6930" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.	89	R-947	Rocker arm w/on-center push rod socket; Incl. arm & retainer
6	Arm Assy.	89	R-870	L.H.; Incl. arm & retainer; Stamped steel
12	Arm Assy.	87-78	R-947	Rocker arm w/on-center push rod socket; Incl. arm & retainer
6	Arm Assy.	87-78	R-870	L.H.; Incl. arm & retainer; Stamped steel
6	Arm	89	R-870W	L.H.; Stamped steel
6	Arm	87-78	R-870W	L.H.; Stamped steel
12	Retainer	89	MR-1829	L.H.; Stamped steel
12	Retainer	87-78	MR-1829	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	89	V-4168 Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust	87-79	V-4168 Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	89	V-4168B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	87-79	V-4168B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Intake	89	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
6	Intake	87-79	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	89	VS-744	2.0200" Free Height
12	Spring	87-85	VS-744	2.0200" Free Height
12	Spring	84	VS-744	w/o damper; 2.0200" Free Height
12	Spring	83-82	VS-744	Exc. Regal & Riviera; 2.0200" Free Height
12	Spring	81-78	VS-744	2.0200" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	89	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	87-78	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
6	Valve Stem Seal	89	MV-1888A	Int.; O.E. design; Positive type; Viton®
6	Valve Stem Seal	87-78	MV-1888A	Int.; O.E. design; Positive type; Viton®
12	Valve Stem Seal Bulk	89	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	89	MV-1888	Int.; O.E. design; Positive type; Carton of 50; Viton®
12	Valve Stem Seal Bulk	87-78	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	87-78	MV-1888	Int.; O.E. design; Positive type; Carton of 50; Viton®
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	89	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	89	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	89	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
6	Exh.	87-79	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	87-79	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	87-79	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
6	Exh.	78	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	78	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	78	245-1750-1N Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	78	245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	89	VK-115	1 groove; Square cut key groove
24	Keeper	89	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper	87-78	VK-115	1 groove; Square cut key groove
24	Keeper	87-78	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	89	VK-115B	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	87-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	89	259-201B	.030"; Carton of 100
12	Spring Insert	89	259-201A	.060"; Carton of 100
12	Spring Insert	89	259-201ARS	.060"; Carton of 500
12	Spring Insert	87-78	259-201B	.030"; Carton of 100
12	Spring Insert	87-78	259-201A	.060"; Carton of 100
12	Spring Insert	87-78	259-201ARS	.060"; Carton of 500

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 48 3.8L 231 OHV Turbo V6 (Buick), 3.8" Bore 1989-78 (cont.) VIN Codes "G" 1978, "3" 1978-82, "7" 1986-87 & 1989, "8" 1983, "9" 1984-85

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	87-86	<b>H521ACP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston	85-78	<b>H521ACP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	87-86	<b>WH521ACP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	87-86	<b>WH521AP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets.
6	Cast Piston - Individual	85-78	<b>WH521ACP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	85-78	<b>WH521AP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 7.9:1 C.R. Use in complete sets.
6	Powerforged	83	<b>L-2481F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.825" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. <b>DurOshield® skirt coated piston.</b>
6	Powerforged	82-79	<b>L-2481F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.825" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. <b>DurOshield® skirt coated piston.</b>
6	Forged Piston - Individual	83	<b>WL-2481F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.825" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. <b>DurOshield® skirt coated piston.</b>
6	Forged Piston - Individual	82-79	<b>WL-2481F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.825" CD, .9393" Pin Dia., Recessed Head .245" deep x 3.050" dia. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89	<b>E-434K</b> Std-20-30-40	2-5/64, 1-3/16
1	Premium Set	87-78	<b>E-434K</b> Std-20-30-40	2-5/64, 1-3/16
6	Premium Single Cylinder Set	89	<b>WE-434K</b> Std-20-30-40	2-5/64, 1-3/16
6	Premium Single Cylinder Set	87-78	<b>WE-434K</b> Std-20-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
1	Main Set	87-78	<b>7144MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	87-78	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
1	Rod Set	89	<b>6-3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Rod Set	89	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	89	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
1	Rod Set	87-78	<b>6-3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Rod Set	87-78	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	87-78	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
6	Rod Pair	89	<b>3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
6	Rod Pair	87-78	<b>3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b> ; .659" O.A.L.
1	Cam Set	89	<b>1755M</b> Std Only	Babbitt material
1	Cam Set	89	<b>1782M</b> Std Only	Special oil control set contains 360 degree groove OD front brg.
1	Cam Set	87-85	<b>1755M</b> Std Only	w/20 bolt oil pan; Babbitt material
1	Cam Set	87-78	<b>1782M</b> Std Only	1st design; w/14 bolt oil pan; Special oil control set contains 360 degree groove OD front brg.
1	Cam Set	84	<b>1462M</b> Std Only	w/14 bolt oil pan; Babbitt material
1	Cam Set	84	<b>1755M</b> Std Only	w/20 bolt oil pan; Babbitt material
1	Cam Set	83-78	<b>1462M</b> Std Only	w/14 bolt oil pan; Babbitt material
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	89	<b>224-51382</b>	
1	Pump Repair Kit	89	<b>224-518</b>	Gear type
1	Pump Repair Kit	89	<b>224-518V</b>	High Volume; Installation may require timing cover removal

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**3.8L 231 OHV Turbo V6 (Buick), 3.8" Bore 1989-78 48**

VIN Codes "G" 1978, "3" 1978-82, "7" 1986-87 & 1989, "8" 1983, "9" 1984-85 (cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Pump Repair Kit	89	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gsks. and instructions		
	1	Pump Repair Kit	87-83	224-51382	Gear type		
	1	Pump Repair Kit	87-78	224-518	High Volume; Installation may require timing cover removal		
	1	Pump Repair Kit	87-78	224-518V	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gsks. and instructions		
	1	Pump Repair Kit	87-78	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gsks. and instructions		
	1	Pump Repair Kit	78	224-51382	Regal		
	1	Screen Assy.	89	224-128	For 5-1/4" deep oil pan		
	1	Screen Assy.	87-86	224-128	VIN Code "7"; For 5-1/4" deep oil pan		
	1	Screen Assy.	85-84	224-148	Regal		
	1	Screen Assy.	83-80	224-128	Exc. Riviera; For 5-1/4" deep oil pan		
	1	Screen Assy.	79-78	224-128	2nd design; w/5.25" deep oil pan; For 5-1/4" deep oil pan		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Kit Gasket Set	87-86	260-1238	VIN Code "7"; Int. manifold gskt. not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	85-84	260-1138	VIN Code "9"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	84	260-1149	VIN Code "9"; w/14 bolt oil pan; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	83	260-1032	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Premium valve stem seals incl.		
	1	Kit Gasket Set	83	260-1149	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	82-78	260-1032	Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Premium valve stem seals incl.			
1	Valley Pan Gasket Set	87-84	260-4006	VIN Codes "7" & "9"			
1	Valley Pan Gasket Set	83-82	260-4006	Exc. Riviera			
1	Valley Pan Gasket Set	83-82	260-4014	Riviera			
1	Valley Pan Gasket Set	81-80	260-4014				
1	Valley Pan Gasket Set	79	260-4006				
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	89	381-8073				
1	Brass Block Plug Kit	87-85	381-8073				
1	Brass Block Plug Kit	84-80	381-8035				
1	Brass Block Plug Kit	79-78	381-8035				
1	Steel Block Plug Kit	84-80	381-4023				
1	Steel Block Plug Kit	79-78	381-4023				
<b>K I T S</b>	<b>RE-RING KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	87-86	VIN Code "7"; Int. manifold gskt. not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Re-ring		205-6018	----	
			Re-ring w/Mains		205-6018M	----	
	85-84	VIN Code "9"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.	Re-ring		205-6017	----	
			Re-ring w/Mains		205-6017M	----	
<b>K I T S</b>	<b>OVERHAUL KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	85	VIN Code "9"; w/20 bolt oil pan; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Pistons		MK-6017A	----	
83	VIN Code "8"; w/14 bolt oil pan; 2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Turbo mtg. gsks. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Mster w/Frg. Pstn. Prm. Rings		MKF-724D	----		
<b>3.8L 235 OHV L6 (Chevrolet), 3.5625" Bore 1962-53 49</b>							
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Crank Gear	62-53	221-2537	27 Teeth			

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## 49 3.8L 235 OHV L6 (Chevrolet), 3.5625" Bore 1962-53

(cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam Gear	62-53	221-2514	Alum.; 54 Teeth
1	Cam Gear	62-53	221-2500	Silent type; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	62-59	CS-323	
1	Camshaft	55-54	CS-251	w/o Powerglide trans.
1	Camshaft	53	CS-338	w/o Powerglide trans.
1	Prelube	62-53	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	62-56	RP-3020	11.4740" O.A.L.
12	Push Rod	55-53	RP-3018	w/o Powerglide trans.; 10.8190" O.A.L.
12	Push Rod	55-53	RP-3020	w/Powerglide trans.; 11.4740" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Rocker Shaft	62-56	RS-602	
2	Rocker Shaft	55-53	RS-602	w/Powerglide trans.
6	Nut	62-53	MR-1940	7/16-20 thread
6	Adj. Screw	62-53	MR-1939	7/16-20 thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	62-53	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	62-53	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	62-53	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	62-54	V-1076 Std Only	1.8750" Head Dia., .3415" Stem Dia., 6.3910" O.A.L.
6	Intake	53	V-958 Std Only	w/o Powerglide trans.; 1.6410" Head Dia., .3412" Stem Dia., 6.2830" O.A.L.
6	Intake	53	V-1076 Std Only	w/Powerglide trans.; 1.8750" Head Dia., .3415" Stem Dia., 6.3910" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	62-53	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.
6	Guide	62-53	VG-473	Int.; .3435" ID, 3.3400" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	62-59	VS-534	2.1600" Free Height
12	Spring	58-53	VS-424	2.2500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	62-53	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	62-53	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	62-53	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	62-53	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	62-53	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	62-53	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	62-53	VK-115	1 groove; Square cut key groove
24	Keeper	62-53	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	62-53	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	62-53	259-200B	.030"; Carton of 100
12	Spring Insert	62-53	259-200A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	62-53	1009P Std-20-30-40-60-80	Use w/E-237KC or E-237X ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 2.062" CD, .8650" Pin Dia., Flat Head
6	Cast Piston - Individual	62-53	W1009P Std-20-30-40-60-80	Use w/WE-237KC or WE-237X ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 2.062" CD, .8650" Pin Dia., Flat Head
12	Pin Bushing	53	9559X	2 req'd. per rod
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	62-54	E-237KC Std-20-30-40-60	2-3/32, 1-3/16
1	Premium Set	53	E-237KC Std-20-30-40-60	w/Powerglide trans.; 2-3/32, 1-3/16
1	Standard Set	62-54	E-237X Std-20-30-40-60-80	2-3/32, 1-3/16
1	Standard Set	53	E-135X Std-30	w/o Powerglide trans.; 1-3/32, 1-1/8, 1-3/16
1	Standard Set	53	E-237X Std-20-30-40-60-80	w/Powerglide trans.; 2-3/32, 1-3/16
6	Premium Single Cylinder Set	62-54	WE-237KC Std-20-30-40-60	2-3/32, 1-3/16
6	Premium Single Cylinder Set	53	WE-237KC Std-20-30-40-60	w/Powerglide trans.; 2-3/32, 1-3/16
6	Standard Single Cylinder Set	62-54	WE-237X Std-30-40-60-80	2-3/32, 1-3/16
6	Standard Single Cylinder Set	53	WE-237X Std-30-40-60-80	w/Powerglide trans.; 2-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	62-56	960M Std-10-20-30-40-50-60	Use w/FSM-124S shim set

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**3.8L 235 OHV L6 (Chevrolet), 3.5625" Bore 1962-53 49**  
(cont.)

B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
			(cont.)		
	1	Main Set	55-54	<b>853M</b> Std-10-20-30-40	Use w/FSM-124S shim set
	1	Main Set	53	<b>648M</b> Std-10-20-30	w/o Powerglide trans.; Use w/FSM-105S shim set
	1	Main Set	53	<b>853M</b> Std-10-20-30-40	w/Powerglide trans.; Use w/FSM-124S shim set
	1	Shim Set	62-53	<b>FSM-124S</b>	
	1	Shim Set	53	<b>FSM-104S</b>	
	1	Shim Set	53	<b>FSM-105S</b>	
	1	Rod Set	62-54	<b>6-1950CP</b> Std-10-20-30-40-50	6-1950CA 60 avail. as unplated & resizeable
	1	Rod Set	53	<b>6-1950CP</b> Std-10-20-30-40-50	W/Powerglide trans.; 6-1950CA 60 avail. as unplated & resizeable
	1	Rod Set	62-54	<b>6-1950CA60</b> 60	Unplated & resizeable
	1	Rod Set	53	<b>6-1950CA60</b> 60	W/Powerglide trans.; Unplated & resizeable
	6	Rod Pair	62-54	<b>1950CP</b> Std-10-20-30-40-50	
	6	Rod Pair	53	<b>1415SB10</b> 10-20	w/M/T; Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
	6	Rod Pair	53	<b>1950CP</b> Std-10-20-30-40-50	W/Powerglide trans.
	1	Cam Set	62-54	<b>1170M</b> Std Only	w/Large dia. brgs.
	1	Cam Set	54-53	<b>1094M</b> Std Only	w/small dia. brgs.
B L O C K					
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	62-55	<b>224-4141</b>		
1	Oil Pump	54	<b>224-4142</b>	w/o Powerglide trans.	
1	Oil Pump	53	<b>224-4140</b>	w/o Powerglide trans.	
1	Oil Pump	53	<b>224-4142</b>	W/Powerglide trans.	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	62-53	<b>260-1569</b>		

**4.1L 250 (4097cc) OHV V8 (Cadillac), 88mm Bore 1988-82 50**  
VIN Codes "7" 1987-88, "8" 1982-87

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	3 Piece Set	87-82	<b>KT3-503S</b>
	1	Timing Chain	88-82	<b>222-503</b>	44 Links
	1	Crank Sprocket	88-82	<b>223-533</b>	17 Teeth
	1	Cam Sprocket	87-82	<b>223-546</b>	VIN Code "8"; 34 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	88-87	<b>CS-1540</b>	VIN Code "7"	
1	Camshaft	87-82	<b>CS-751</b>	VIN Code "8"; Must be used w/new distributor gear O.E. No. 10499813	
16	Lifter	88-87	<b>HT-2148</b> Std Only	VIN Code "7"; Hyd. rlr.	
16	Lifter	87-82	<b>HT-969</b> Std Only	VIN Code "8"; Hyd.; w/.440" wide oil groove	
16	Lifter, Bulk	88-87	<b>HT-2148B</b> Std Only	VIN Code "7"; Hyd. rlr.; Carton of 128	
16	Lifter, Bulk	87-82	<b>HT-969B</b> Std Only	VIN Code "8"; Hyd.; Carton of 128	
1	Prelube	88-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	88-87	<b>KC-1540</b>	VIN Code "7"; Hyd. rlr.; Incl. (1) CS-1540, (16) HT-2148, (1) 55-403B	
1	Cam/Lifter Kit	87-82	<b>KC-751</b>	VIN Code "8"; Must be used w/new distributor gear O.E. No. 10499813; Hyd.; Incl. (1) CS-751, (16) HT-969, (1) 55-403B	
1	Cam/Lifter/Timing Kit	87-82	<b>KCT-751</b>	VIN Code "8"; Must be used w/new distributor gear O.E. No. 10499813; Hyd.; Incl. (1) CS-751, (16) HT-969, (1) KT3-503S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	87-82	<b>RP-3240</b>	VIN Code "8"; 8.2100" O.A.L.	
16	Push Rod, Bulk	87-82	<b>BRP-3240</b>	VIN Code "8"; Carton of 100; 8.2100" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm	88-82	<b>R-913</b>		
16	Arm, Bulk	88-82	<b>R-913B</b>	Carton of 64	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
8	Exhaust	88-87	<b>V-2528</b> Std Only	Chrome plated stem; w/round cut groove; 1.2990" Head Dia., .3404" Stem Dia., 4.7290" O.A.L.	
8	Exhaust	86	<b>V-2528</b> Std Only	2nd design; Chrome plated stem; w/round cut groove; 1.2990" Head Dia., .3404" Stem Dia., 4.7290" O.A.L.	
8	Intake	88-87	<b>V-3948</b> Std Only	Chrome plated stem; w/round cut groove; 1.5350" Head Dia., .3416" Stem Dia., 4.8230" O.A.L.	
8	Intake	86-82	<b>V-3948</b> Std Only	2nd design; Chrome plated stem; w/round cut groove; 1.5350" Head Dia., .3416" Stem Dia., 4.8230" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
16	Guide	88-82	<b>VG-5006</b>	Exh. & Int.; .3440" ID, 2.3750" O.A.L.	

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## 50 4.1L 250 (4097cc) OHV V8 (Cadillac), 88mm Bore 1988-82

(cont.) VIN Codes "7" 1987-88, "8" 1982-87

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
16	Guide	88-82	VG-5006T	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.
16	Guide, Bulk	88-82	VG-5006B	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	88-82	VS-1531	Exh.; 2.1800" Free Height
8	Spring	88-82	VS-1532	Int.; 2.2650" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	88-82	ST-2065	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	88-82	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	86-82	VK-115	1st design; 1 groove; Square cut key groove
32	Keeper	86-82	VK-115R	1st design; 1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	86-82	VK-115B	1st design; 1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	88-82	259-201B	.030"; Carton of 100
16	Spring Insert	88-82	259-201A	.060"; Carton of 100
16	Spring Insert	88-82	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	87-82	502NP * Std-.25-.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.630" CD, .8658" Pin Dia., Recessed Head .161" deep x 2.125" dia. - 8.5:1 C.R.
8	Cast Piston	87-82	502P + Std-.25-.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.630" CD, .8658" Pin Dia., Recessed Head .161" deep x 2.125" dia. - 8.5:1 C.R.; When depleted use 502NP
8	Cast Piston - Individual	87-82	W502NP * Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.630" CD, .8658" Pin Dia., Recessed Head .161" deep x 2.125" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	87-82	W502P + Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 1.630" CD, .8658" Pin Dia., Recessed Head .161" deep x 2.125" dia. - 8.5:1 C.R.; When depleted use W502NP
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-82	E-444K Std-.25-.50MM	VIN Code "8"; 2-2.00MM, 1-4.00MM
1	Standard Set	87-82	E-444X Std-.25MM	VIN Code "8"; 2-2.00MM, 1-4.00MM
8	Premium Single Cylinder Set	87-82	WE-444K Std-.25-.50MM	VIN Code "8"; 2-2.00MM, 1-4.00MM
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Sealing Ring	87-82	SLR-9129	VIN Code "8"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-82	7046MA Std-.25-.50-.75MM	A-Series aluminum bearings; w/std. length flange brg.
1	Main Set	88-82	7222M.25MM .25MM	Use in .25MM O/S Housing Bore
1	Rod Set	88-82	8-3870RA Std-.25-.50-.75MM	A-Series aluminum bearings
1	Rod Set	88-82	8-3870RA25X2 25X2-75X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore
8	Rod Pair	88-82	3870RA Std-.026-.25-.50-.75MM	A-Series aluminum bearings
1	Cam Set	88-82	1757M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	88	224-43433S	Allante; Incl. screen
1	Oil Pump	87	224-43433S	Allante, Eldorado & Seville; Incl. screen
1	Oil Pump	86	224-43433S	Eldorado & Seville; Incl. screen
1	Oil Pump	85-82	224-43432S	Eldorado & Seville; Incl. screen
1	Oil Pump	85-82	224-43433S	Fleetwood & DeVille; Incl. screen
1	Pump Repair Kit	87-82	224-5129	VIN Code "8"; Use w/oil pump housing having 9 tooth gears
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87	260-1473	VIN Code "8"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	260-1473	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1473	DeVille, Fleetwood 75, Fleetwood 75 Formal, Fleetwood Base, Fleetwood D'Elegance, Series 75 Fleetwood; w/Alum. valve covers; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1470	60 Special, Eldorado, Seville, Commercial Chassis, Fleetwood Brougham, Fleetwood Brougham D'Elegance; w/Steel valve covers; Premium valve stem seals incl.
1	Kit Gasket Set	84-82	260-1470	Premium valve stem seals incl.

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4.1L 250 (4097cc) OHV V8 (Cadillac), 88mm Bore 1988-82 **50**

VIN Codes "7" 1987-88, "8" 1982-87 (cont.)

K I T S	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	87	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144M	----	
	87	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144	----	
	86	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144M	----	
	86	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144	----	
	85	VIN Code "8"; 60 Special, Eldorado, Seville, Commercial Chassis, Fleetwood Brougham, Fleetwood Brougham D'Elegance; w/Steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; Premium valve stem seals incl.	205-6142M	----	
	85	60 Special, Eldorado, Seville, Commercial Chassis, Fleetwood Brougham, Fleetwood Brougham D'Elegance; w/Steel valve covers; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-6142	----	
	85	VIN Code "8"; DeVille, Fleetwood 75, Fleetwood 75 Formal, Fleetwood Base, Fleetwood D'Elegance, Series 75 Fleetwood; w/Alum. valve covers; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144M	----	
	85	VIN Code "8"; DeVille, Fleetwood 75, Fleetwood 75 Formal, Fleetwood Base, Fleetwood D'Elegance, Series 75 Fleetwood; w/Alum. valve covers; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6144	----	
	84-82	VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; Premium valve stem seals incl.	205-6142M	----	
	84-82	VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	205-6142	----	
	OVERHAUL KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	
	YEARS	DESCRIPTION			
	87	VIN Code "8"; Exh. pipe packing not incl.; Must be used w/new distributor gear O.E. No. 10499813; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Use w/oil pump housing having 9 tooth gears	MK-6144A	----	
	86	VIN Code "8"; Exh. pipe packing not incl.; Must be used w/new distributor gear O.E. No. 10499813; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Use w/oil pump housing having 9 tooth gears	MK-6144A	----	
	85	VIN Code "8"; 60 Special, Eldorado, Seville, Commercial Chassis, Fleetwood Brougham, Fleetwood Brougham D'Elegance; w/Steel valve covers; Must be used w/new distributor gear O.E. No. 10499813; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; Premium valve stem seals incl.; Use w/oil pump housing having 9 tooth gears	MK-6142A	----	

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## 50 4.1L 250 (4097cc) OHV V8 (Cadillac), 88mm Bore 1988-82 (cont.) VIN Codes "7" 1987-88, "8" 1982-87

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO. MK-6144A	ECONOMY KIT NO. ----	K I T S
	YEARS	DESCRIPTION			
	85	VIN Code "8"; DeVille, Fleetwood 75, Fleetwood 75 Formal, Fleetwood Base, Fleetwood D'Elegance, Series 75 Fleetwood; w/Alum. valve covers; Exh. pipe packing not incl.; Must be used w/new distributor gear O.E. No. 10499813; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Use w/oil pump housing having 9 tooth gears	Master w/o Pistons	----	
	84-82	VIN Code "8"; Must be used w/new distributor gear O.E. No. 10499813; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; Premium valve stem seals incl.; Use w/oil pump housing having 9 tooth gears	Master w/o Pistons	MK-6142A	----

## 51 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1979-65 VIN Code "D" 1972-79

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Gear Set	79-77	221-2540S	Incl. (1) 221-2526, (1) 221-2541	
	1	Gear Set	76	221-2540S	Late 1976; w/Integral cyl. head; Incl. (1) 221-2526, (1) 221-2541	
	1	Gear Set	76-75	221-2525S	w/o Integral cyl. head; Cam gear stamped "14"; Crank gear stamped "71"; Incl. (1) 221-2524, (1) 221-2537	
	1	Gear Set	76-75	221-2528S	w/o Integral cyl. head; Cam gear stamped "20"; Crank gear stamped "20"; Incl. (1) 221-2526, (1) 221-2527	
	1	Gear Set	74-66	221-2525S	Incl. (1) 221-2524, (1) 221-2537	
	1	Crank Gear	79-77	221-2541	27 Teeth	
	1	Crank Gear	76-75	221-2527	w/o Integral int. manifold; w/"GM20" stamped on gear face; 27 Teeth	
	1	Crank Gear	76-75	221-2537	w/Integral int. manifold; w/"GM71" stamped on gear face; 27 Teeth	
	1	Crank Gear	75-68	221-2537	27 Teeth	
	1	Cam Gear	79-77	221-2526	Alum.; 54 Teeth	
	1	Cam Gear	76	221-2524	w/"14" stamped on gear face; Alum.; 54 Teeth	
	1	Cam Gear	76	221-2526	w/"20" stamped on gear face; Alum.; 54 Teeth	
	1	Cam Gear	75	221-2526	w/o integral int. manifold; Alum.; 54 Teeth	
	1	Cam Gear	75	221-2524	w/Integral int. manifold; Alum.; 54 Teeth	
	1	Cam Gear	74-66	221-2524	Alum.; 54 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	79-77	CS-677		
	1	Camshaft	76-75	CS-633	w/o Integral cyl. head	
	1	Camshaft	76-75	CS-677	w/Integral cyl. head	
	1	Camshaft	74-66	CS-633		
	12	Lifter	79-66	HT-817 Std Only	Hyd.	
	12	Lifter, Bulk	79-66	HT-817B Std Only	Hyd.; Carton of 128	
	1	Prelube	79-66	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	79-77	KC-677	Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	76-75	KC-633	w/o Integral cyl. head; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	76-75	KC-677	w/Integral cyl. head; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	74-66	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	79-77	KCT-677C	Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	76	KCT-677C	Late 1976; w/Integral cyl. head; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	76-75	KCT-633A	w/o Integral cyl. head; Cam gear stamped "14"; Crank gear stamped "71"; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	74-66	KCT-633A	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B	
V A L V E T R A I N	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Push Rod	79-66	RP-3214R	Chrome-Moly; 9.6800" O.A.L.	
	12	Push Rod	79-66	RP-3180	9.6800" O.A.L.	
	12	Push Rod, Bulk	79-66	BRP-3180	Carton of 100; 9.6800" O.A.L.	
V A L V E T R A I N	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	12	Arm Assy.	79-66	R-832	Incl. arm, ball & nut	
	12	Arm Assy., Bulk	79-66	R-832B	Incl. arm, ball & nut; Carton of 64	
	12	Arm	79-66	R-832A		
	12	Pivot Ball	79-66	MR-1780		

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4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1979-65 **51**  
VIN Code "D" 1972-79 (cont.)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
12	Nut	79-66	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	79-66	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	79-66	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	79-66	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	79-66	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	79-66	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Intake	79-66	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	79-66	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	74-66	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	74-66	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	79-77	VS-521	Exh. & Int.; Incl. damper; 2.1090" Free Height
12	Spring	76-75	VS-653	Exh. & Int.; w/o Integral cyl. head; 1.9000" Free Height
12	Spring	76-75	VS-521	Exh. & Int.; W/Integral cyl. head; Incl. damper; 2.1090" Free Height
12	Spring	74-67	VS-653	Exh. & Int.; 1.9000" Free Height
12	Spring	66	VS-521	Exh. & Int.; Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	79-75	ST-2003	Positive type; Installation requires valve guide machining; Rubber
12	Valve Stem Seal	79-75	ST-2092	Positive type; Rubber
12	Valve Stem Seal	74-66	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	74-66	MV-1903	Use w/VG-5038 repair guide; Positive type; Rubber
12	Valve Stem Seal	79-66	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	79-75	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
12	Valve Stem Seal Bulk	79-66	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	74-66	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	79-66	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	79-66	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	74-66	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	79-66	VK-115	1 groove; Square cut key groove
24	Keeper	79-66	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	79-66	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	79-66	259-203C	.015"; Carton of 100
12	Spring Insert	79-66	259-203B	.030"; Carton of 100
12	Spring Insert	79-66	259-203BRS	.030"; Carton of 500
12	Spring Insert	79-66	259-203A	.060"; Carton of 100
12	Spring Insert	79-66	259-203ARS	.060"; Carton of 500
6	Rotocap	74-71	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	79-66	403CP30 30-40-60	Use w/E-234K or E-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	79-66	403P Std-20-30-40-60-80	Use w/E-234K or E-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep
6	Cast Piston	79-66	599P40 40-60	Use w/E-234K or E-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .115" deep
6	Cast Piston - Individual	79-66	W403CP30 30-40-60	Use w/WE-234K or WE-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	79-66	W403P Std-20-30-40-60-80	Use w/WE-234K or WE-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep
6	Cast Piston - Individual	79-66	W599P40 * 40-60	Use w/WE-234K or WE-234X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .115" deep

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

\* New Item — Check For Availability

# GM Car

**51** 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1979-65  
(cont.) VIN Code "D" 1972-79

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
6	Pin	79-66	P-2208 Std-3-5-0015		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	79-71	E-234K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	79-71	E-234X Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	79-71	WE-234K Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	79-71	WE-234X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
6	Repair Sleeve	79-66	SL-20Y Std Only	1/8" wall, must be cut to correct length	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	79-66	4124MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	79-66	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable	
1	Rod Set	79-66	6-2020CA60 60	Unplated & resizeable	
6	Rod Pair	79-66	2020CP Std-1-2-10-20-30-40-50		
1	Cam Set	79-71	1557M Std Only		
1	Cam Set	70-68	1203M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	79-66	224-4147		
1	Oil Pump	79-66	224-4157	High Volume, check pan for clearance	
1	Screen Assy.	79-66	224-1347		
1	Tool	79-66	MT-J21882	Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	79-75	260-1019	w/Integral cyl. head	
1	Kit Gasket Set	79-66	260-1005	w/o Integral cyl. head	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	79-65	381-8006		
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
79-77	w/o Integral cyl. head	Re-ring		205-614	205-114
79-77	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains		205-614M	205-114M
79-77	w/Integral cyl. head	Re-ring		205-615	205-115
79-77	w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains		205-615M	205-115M
76-75	w/o Integral cyl. head	Re-ring		205-614	205-114
76-75	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains		205-614M	205-114M
76-75	w/Integral cyl. head	Re-ring		205-615	205-115
76-75	w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains		205-615M	205-115M
74-71	w/o Integral cyl. head	Re-ring		205-614	205-114
74-71	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains		205-614M	205-114M
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
79-77	w/o Integral cyl. head	Master w/o Rods & Mains		505-614G	505-114G
79-77	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons		MKP-614G MK-614G	MKP-114G MK-114G
79-77	w/Integral cyl. head	Master w/o Rods & Mains		505-615A	505-115A
79-77	w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons		MKP-615A MK-615A	MKP-115A MK-115A
76	Cam gear stamped "14"; Crank gear stamped "71"; w/o Integral cyl. head	Master w/o Rods & Mains		505-614A	505-114A
76	Cam gear stamped "14"; Crank gear stamped "71"; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons		MKP-614A MK-614A	MKP-114A MK-114A
76	Cam gear stamped "20"; Crank gear stamped "20"; w/o Integral cyl. head	Master w/o Rods & Mains		505-614C	505-114C
76	Cam gear stamped "20"; Crank gear stamped "20"; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons		MKP-614C MK-614C	MKP-114C MK-114C
76	Late 1976; w/Integral cyl. head	Master w/o Rods & Mains		505-615A	505-115A

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## 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1979-65 **51**

VIN Code "D" 1972-79 (cont.)

KITS	OVERHAUL KIT (cont.)			PREMIUM	ECONOMY	KITS
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
	76	Late 1976; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-615A</b> <b>MK-615A</b>	<b>MKP-115A</b> <b>MK-115A</b>	
	75	Cam gear stamped "14"; Crank gear stamped "71"; w/o Integral cyl. head	Master w/o Rods & Mains	<b>505-614A</b>	<b>505-114A</b>	
	75	Cam gear stamped "14"; Crank gear stamped "71"; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-614A</b> <b>MK-614A</b>	<b>MKP-114A</b> <b>MK-114A</b>	
	75	Cam gear stamped "20"; Crank gear stamped "20"; w/o Integral cyl. head	Master w/o Rods & Mains	<b>505-614C</b>	<b>505-114C</b>	
	75	Cam gear stamped "20"; Crank gear stamped "20"; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-614C</b> <b>MK-614C</b>	<b>MKP-114C</b> <b>MK-114C</b>	
	74-71	w/o Integral cyl. head	Master w/o Rods & Mains	<b>505-614A</b>	<b>505-114A</b>	
	74-71	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-614A</b> <b>MK-614A</b>	<b>MKP-114A</b> <b>MK-114A</b>	

## 4.1L 250 SOHC L6 (Pontiac), 3.875" Bore 1969-68 **52**

BLOCK	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	BLOCK
	6	Valve Stem Seal	69-68	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber	
	6	Valve Stem Seal	69-68	<b>ST-2092</b>	Positive type; Rubber	
	6	Valve Stem Seal Bulk	69-68	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber	
BLOCK	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	BLOCK
	12	Keeper	69-68	<b>VK-115</b>	1 groove; Square cut key groove	
	12	Keeper	69-68	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	
	12	Keeper, Bulk	69-68	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
	12	Spring Insert	69-68	<b>259-301A</b>	.060"; Carton of 100	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	69-68	<b>E-234K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	69-68	<b>E-234X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Premium Single Cylinder Set	69-68	<b>WE-234K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Standard Single Cylinder Set	69-68	<b>WE-234X</b> Std-20-30-40-60	2-5/64, 1-3/16	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Main Set	69-68	<b>4124MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
	1	Rod Set	69-68	<b>6-2020CP</b> Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable	
	1	Rod Set	69-68	<b>6-2020CA60</b> 60	Unplated & resizeable	
	6	Rod Pair	69-68	<b>2020CP</b> Std-1-2-10-20-30-40-50		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Brass Block Plug Kit	69-68	<b>381-8006</b>		

## 4.1L 252 OHV V6 (Buick), 3.965" Bore 1985-80 **53**

VIN Code "4" 1980-85

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	85-80	<b>KT3-359SA1</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-610	
	1	Timing Chain	82-80	<b>222-359</b>	54 Links	
	1	Crank Sprocket	82-80	<b>223-323</b>	20 Teeth	
	1	Cam Sprocket	82-80	<b>223-610</b>	40 Teeth	
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Camshaft	84-80	<b>CS-702</b>		
	1	Performance Cam	80	<b>CS-1112R</b>	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .4240" Int., .4480" Exh.; Lobe Separation 114 Degrees	
	1	Performance Cam	80	<b>CS-1016R</b>	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4480" Int., .4720" Exh.; Lobe Separation 112 Degrees	
	12	Lifter	84-80	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove	
	12	Lifter	84-80	<b>HT-969R</b> Std Only	Speed-Pro Hi-Revolution Hyd.	
	12	Lifter, Bulk	84-80	<b>HT-969B</b> Std Only	Hyd.; Carton of 128	
	12	Lifter, Bulk	84-80	<b>HT-969RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128	
	1	Prelube	84-80	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Cam/Lifter Kit	84-80	<b>KC-702</b>	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B	

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# GM Car

**53 4.1L 252 OHV V6 (Buick), 3.965" Bore 1985-80**  
 (cont.) VIN Code "4" 1980-85

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80	KC-1112R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .424" Int., .448" Exh.; Lobe Separation 114 Degrees; Incl. (1) CS-1112R, (12) HT-969, (1) 55-403B
1	Cam/Lifter Kit	80	KC-1016R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .448" Int., .472" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1016R, (12) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-80	KCT-702	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	85-80	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	85-80	RP-3164	8.6930" O.A.L.
12	Push Rod	85-80	RP-316435	8.7280" O.A.L.
12	Push Rod	85-80	RP-316460	8.7530" O.A.L.
12	Push Rod, Bulk	85-80	BRP-3164	Carton of 100; 8.6930" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Arm Assy.	85-80	R-870	Exh. 1-4-5; Incl. arm & retainer; Stamped steel
6	Arm Assy.	85-80	R-870	Int. 2-3-6; Incl. arm & retainer; Stamped steel
6	Arm	85-80	R-870W	Exh. 1-4-5; Stamped steel
6	Arm	85-80	R-870W	Int. 2-3-6; Stamped steel
12	Retainer	85-80	MR-1829	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	84-80	V-4168 Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	84-80	V-4168B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Intake	84-80	V-2117 Std-15	Chrome plated stem; 1.7100" Head Dia., .3407" Stem Dia., 4.7130" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	84-80	VG-5002	.3420" ID, 3.0600" O.A.L.
12	Guide	84-80	VG-5002T	Exh. & Int.; Threaded; .3430" ID, 3.0630" O.A.L.
12	Guide, Bulk	84-80	VG-5002B	Carton of 50; .3420" ID, 3.0600" O.A.L.
12	Guide, Bulk	84-80	VG-5002TB	Exh. & Int.; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
6	Spring	84-80	VS-677	Exh.; Incl. damper; 2.0300" Free Height
6	Spring	84-80	VS-744	Int.; 2.0200" Free Height
6	Spring, Bulk	84-80	VS-677B	Exh.; Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	85-80	ST-2001	Exh. & Int.; Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE
6	Valve Stem Seal	83-82	MV-1888C	Int.; w/.605" valve guide OD; Positive type; Viton®
12	Valve Stem Seal Bulk	85-80	ST-2001BC	Exh. & Int.; Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	83-82	MV-1888	Int.; w/.605" valve guide OD; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	84-80	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
6	Exh.	84-80	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
6	Int.	84-80	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	85-80	VK-115	1 groove; Square cut key groove
24	Keeper	85-80	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	85-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	84-80	259-201B	.030"; Carton of 100
12	Spring Insert	84-80	259-201A	.060"; Carton of 100
12	Spring Insert	84-80	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	84-80	H471CP30 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.808" CD, .9397" Pin Dia., Recessed Head .276" deep x 3.215" dia. - 7.9:1 C.R. DurOshield® skirt coated piston.
6	Cast Piston - Individual	84-80	WH471CP30 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.808" CD, .9397" Pin Dia., Recessed Head .276" deep x 3.215" dia. - 7.9:1 C.R. DurOshield® skirt coated piston.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	84-80	E-408X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	84-80	WE-408K30 30-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	84-80	WE-408X Std-20-30-40	2-5/64, 1-3/16

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BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
		1	Main Set	85-80	7144MA	Std-1-10-20-30-40	A-Series aluminum bearings	
		1	Main Set	85-80	7150MA10	10-20-30	A-Series aluminum bearings; .020" O/S length flange brg.	
		1	Rod Set	85-80	6-3755A	Std-1-10-20-30-40	A-Series aluminum bearings; .659" O.A.L.	
		1	Rod Set	85-80	6-3755A10X2	10X2-20X2-30X2-40X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore	
		1	Rod Set	85-80	6-3755AP10X2	10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore	
		6	Rod Pair	85-80	3755A	Std-1-10-20-30-40	A-Series aluminum bearings; .659" O.A.L.	
		1	Cam Set	85-80	1462M	Std Only	Babbitt material	
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
		1	Pump Repair Kit	84-80	224-51382			
		1	Pump Repair Kit	84-80	224-518		Gear type	
		1	Pump Repair Kit	84-80	224-518V		High Volume; Installation may require timing cover removal	
		1	Pump Repair Kit	84-80	224-518TP		Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions	
		1	Screen Assy.	84-80	224-128		For 5-1/4" deep oil pan	
BLOCK		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
		1	Kit Gasket Set	85-84	260-1149		Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.	
		1	Kit Gasket Set	83	260-1032		1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.	
		1	Kit Gasket Set	83	260-1149		2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.	
		1	Kit Gasket Set	82-80	260-1032		Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.	
		1	Valley Pan Gasket Set	85-80	260-4014			
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
		1	Brass Block Plug Kit	84-80	381-8035			
		1	Steel Block Plug Kit	84-80	381-4023			
KITS		YEARS	RE-RING KIT DESCRIPTION			RE-RING	PREMIUM KIT NO.	ECONOMY KIT NO.
		84	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.			Re-ring	----	205-233
		83	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.			Re-ring	----	205-232
		83	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.			Re-ring	----	205-233
		82-80	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.			Re-ring	----	205-232
KITS		YEARS	OVERHAUL KIT DESCRIPTION			OVERHAUL	PREMIUM KIT NO.	ECONOMY KIT NO.
		84	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	----	MKP-233A MK-233A
		83	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	----	MKP-232A MK-232A
		83	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	----	MKP-233A MK-233A
		82-80	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. A-Series aluminum bearings; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	----	MKP-232A MK-232A

# GM Car

## 54 4.3L 260 OHV V8 (Oldsmobile), 3.5" Bore 1982-75

VIN Codes "F" 1975-81, "8" 1982

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	82-75	KT3-498SA3	Incl. (1) 222-498, (1) 223-348, (1) 223-349
1	Timing Set w/Gaskets	82-75	CTS-1005	
1	Timing Chain	82-77	222-498	48 Links
1	Timing Chain	76-75	222-498	48 Links
1	Crank Sprocket	82-75	223-349	18 Teeth
1	Cam Sprocket	82-75	223-348	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-75	CS-698	
16	Lifter	82-75	HT-951 Std Only	Hyd.
16	Lifter, Bulk	82-75	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	82-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-75	KC-698	Hyd.; Incl. (1) CS-698, (16) HT-951, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-80	RP-3205	8.2480" O.A.L.
16	Push Rod	79-75	RP-3174	8.2340" O.A.L.
16	Push Rod, Bulk	82-80	BRP-3205	Carton of 100; 8.2480" O.A.L.
16	Push Rod, Bulk	79-75	BRP-3174	Carton of 100; 8.2340" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	82-80	R-882	Incl. 2-arms, 2-pivots & 1-pivot bridge
8	Arm Assy.	79-75	R-856	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	82-80	R-882B	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32
8	Arm Assy., Bulk	79-75	R-856B	Incl. 2-arms & 1-pivot assy.; Carton of 64
8	Arm	82-80	R-882A	
8	Arm	79-75	R-856A	
8	Arm, Bulk	82-80	R-882AB	Carton of 64
8	Pivot	82-75	MR-1903	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	82-75	VG-5038	Exh. & Int.; .3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	82-75	VG-5038B	Exh. & Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	82-75	VS-721	1.9600" Free Height
16	Spring, Bulk	82-75	VS-721B	Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	82-75	ST-2001	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	82-75	MV-1903	Exh. & Int.; Use w/VG-5038 repair guide; Positive type; Rubber
8	Valve Stem Seal	82-75	MV-1819C	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	82-75	ST-2001BC	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	82-75	MV-1819	Int.; Umbrella type; Carton of 50; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	82-75	245-1437-4 Std Only	1.4420" OD, 1.1250" ID, .2160" Depth
8	Int.	82-75	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	82-75	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	82-75	VK-115	1 groove; Square cut key groove
32	Keeper	82-75	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	82-75	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	82-75	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	82-75	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	82-75	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	82-75	259-303ARS	.060"; ID .703"; Carton of 500
8	Rotocap	82-75	RC-140	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	80-75	W449P30 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.576" CD, .9804" Pin Dia., Recessed Head .183" deep x 2.240" dia. - 8.0:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	82-75	E-236K Std-30	2-5/64, 1-3/16
1	Standard Set	82-75	E-236X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	82-75	WE-236K Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	82-75	WE-236X Std-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	82-75	4281M Std-1-10-20-30-40	3.824" max. flange OD
1	Rod Set	82-75	8-3045A Std-10-20-30-40	A-Series aluminum bearings

(continued on next page)

**4.3L 260 OHV V8 (Oldsmobile), 3.5" Bore 1982-75 54**

VIN Codes "F" 1975-81, "8" 1982 (cont.)

4.3L 260 OHV V8 (Oldsmobile), 3.5" Bore 1982-75 54						
VIN Codes "F" 1975-81, "8" 1982 (cont.)						
<b>B L O C K</b>	<b>ENGINE BEARINGS</b>					
	<b>QTY</b>	<b>DESCRIPTION</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Rod Set	82-75	<b>8-3045A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore	
	1	Rod Set	82-75	<b>8-3045APA</b> Std-1	Overplated alum. alloy	
	1	Rod Set	82-75	<b>8-3045APA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy	
	8	Rod Pair	82-75	<b>3045A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
	8	Rod Pair	82-75	<b>3045APA</b> Std Only	Overplated alum. alloy	
	1	Cam Set	82-78	<b>1466M</b> Std Only	Full round design	
	1	Cam Set	82-78	<b>1787M</b> Std Only	O.E. split type design	
	1	Cam Set	77-75	<b>1234M</b> Std Only	Babbitt material; Full round design	
	1	Cam Set	77-75	<b>1789M</b> Std Only	O.E. split type design	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	82-75	<b>224-41203</b>		
	1	Oil Pump	82-75	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen	
	1	Inter. Shaft	82-75	<b>224-61203</b>		
	1	Screen Assy.	82-75	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump	
	1	Screen Assy.	82-75	<b>224-11203</b>	5/8" inlet tube	
	1	Tool	82-75	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	82-77	<b>260-1103</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	76-75	<b>260-4001</b>			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	82-75	<b>381-8037</b>			
1	Steel Block Plug Kit	82-75	<b>381-4020</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>205-694</b>	<b>205-194</b>
	82-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.	Re-ring			
<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>MK-694B</b>	<b>MK-194B</b>
	82-78	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.; w/3.824" max. brg. flange OD	Master w/o Pistons			
4.3L 260 OHV Diesel V8 (Oldsmobile), 3.5" Bore 1979 55						
VIN Code "P" 1979						
<b>B L O C K</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	3 Piece Set	79	<b>KT3-180S</b>	Cam & crank gears not sold separately; Incl. (1) 222-180, (1) 223-498, (1) 223-503	
	1	Timing Chain	79	<b>222-180</b>	48 Links	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Pin Bushing	79	<b>2564V20</b>		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	79	<b>4294M</b> Std-1-10-20-30		
	1	Rod Set	79	<b>8-3045A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>	
	1	Rod Set	79	<b>8-3045A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore	
	1	Rod Set	79	<b>8-3045APA</b> Std-1	Overplated alum. alloy	
	1	Rod Set	79	<b>8-3045APA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy	
	8	Rod Pair	79	<b>3045A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
	8	Rod Pair	79	<b>3045APA</b> Std Only	Overplated alum. alloy	
	1	Cam Set	79	<b>1466M</b> Std Only	Full round design	
	1	Cam Set	79	<b>1787M</b> Std Only	O.E. split type design	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	79	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen	
	1	Inter. Shaft	79	<b>224-61203</b>		
	1	Screen Assy.	79	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump	
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	79	<b>381-8037</b>		
4.3L 261 OHV L6 (Chevrolet), 3.75" Bore 1962-55 56						
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	62-56	<b>960M</b> Std-10-20-30-40-50-60	Use w/FSM-124S shim set		
1	Main Set	55	<b>853M</b> Std-10-20-30-40	Use w/FSM-124S shim set		

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# GM Car

## 56 4.3L 261 OHV L6 (Chevrolet), 3.75" Bore 1962-55

(cont.)

ENGINE BEARINGS				
QTY	(cont.)	YEARS	PART NO.	DESCRIPTION
1	Shim Set	62-55	FSM-124S	
1	Rod Set	62-55	6-1950CP	Std-10-20-30-40-50 6-1950CA 60 avail. as unplated & resizeable
1	Rod Set	62-55	6-1950CA60	60 Unplated & resizeable
6	Rod Pair	62-55	1950CP	Std-10-20-30-40-50
1	Cam Set	62-55	1170M	Std Only w/Large dia. brgs.

## 57 4.3L 262 OHV V8 (Chevrolet), 3.671" Bore 1976-75

VIN Code "G" 1975-76

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	76-75	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	76-75	CTS-1000	w/.405" tooth width sprocket
1	Timing Chain	76-75	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	76-75	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	76-75	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	76-75	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-75	CS-711	
16	Lifter	76-75	HT-817	Std Only Hyd.
16	Lifter, Bulk	76-75	HT-817B	Std Only Hyd.; Carton of 128
1	Prelube	76-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	76-75	KC-711	Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-711	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	76-75	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	76-75	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	76-75	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	76-75	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	76-75	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	76-75	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	76-75	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	76-75	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	76-75	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	76-75	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	76-75	R-826A	
16	Pivot Ball	76-75	MR-1783	
16	Nut	76-75	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	76-75	V-1904	Std-3-15-30 Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	76-75	V-1904B	Std-15 Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Intake	76-75	V-1927	Std-15 Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	76-75	V-1927B	Std-15 Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	76-75	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	76-75	VS-677	Int.; Incl. damper; 2.0300" Free Height
8	Spring, Bulk	76-75	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	76-75	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-75	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	76-75	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	76-75	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	76-75	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-75	245-1562-2N	Std Only Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	76-75	245-1562-2	Std Only 1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	76-75	245-1812-3	Std Only 1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-75	VK-115	1 groove; Square cut key groove

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**4.3L 262 OHV V8 (Chevrolet), 3.671" Bore 1976-75 57**

VIN Code "G" 1975-76 (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-75	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-75	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-75	259-203C	.015"; Carton of 100
16	Spring Insert	76-75	259-203B	.030"; Carton of 100
16	Spring Insert	76-75	259-203BRS	.030"; Carton of 500
16	Spring Insert	76-75	259-203A	.060"; Carton of 100
16	Spring Insert	76-75	259-203ARS	.060"; Carton of 500
8	Rotocap	76-75	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin	76-75	P-2208	Std-3-5-0015 Pin bushing not req'd.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	76-75	4663M	Std-1-2-10-20-30-40-60
1	Main Set	76-75	6688M10	10-20-30 .020" O/S length flange brg.
1	Main Set	76-75	4663MA	Std-1-2-10-20-30-40-60 <b>A-Series aluminum bearings</b>
1	Main Set	76-75	7329MA10	10-20-30 <b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Rod Set	76-75	8-2555A	Std-1-2-10-20-30-40-50-60 <b>A-Series aluminum bearings</b>
1	Rod Set	76-75	8-2555A10X2	10X2-20X2-30X2-40X2 <b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	76-75	8-2555CP10X2	10X2-20X2-40X2 Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	76-75	8-2555CP	Std-1-2-10-20-30-40-50 8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	76-75	8-2555CA60	60 Unplated & resizeable
8	Rod Pair	76-75	2555A	Std-1-2-10-20-30-40-50-60 <b>A-Series aluminum bearings</b>
8	Rod Pair	76-75	2555CP	Std-1-2-10-20-30-40-50 Overplated copper-lead alloy
8	Rod Pair	76-75	2555CA60	60 Unplated & resizeable
1	Cam Set	76-75	1235M	Std-1-10 Babbitt material; Full round design
1	Cam Set	76-75	1749M	Std Only Bi-Metal Aluminum
1	Cam Set	76-75	1750M	Std Only 2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	76-75	224-4146A	High Pressure; 5/8" inlet
1	Oil Pump	76-75	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	76-75	224-4146	5/8" inlet
1	Inter. Shaft	76-75	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	76-75	224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	76-75	224-43343	Nylon
1	Screen Assy.	76-75	224-1246	5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	76-75	260-1023	
2	Head Bolt Set	76-75	260-2500	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	76-75	381-8007	
1	Steel Block Plug Kit	76-75	381-4011	

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**4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85 58**

VIN Code "Z" 1985-93

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-87	KT3-499SA6	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-505, (1) 223-732T
1	3 Piece Set	90-87	KT3-499SA3	Incl. hardened cam sprocket; Incl. (1) 222-499, (1) 223-391, (1) 223-732T
1	3 Piece Set	86-85	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	86-85	KT3-499SA	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
1	Timing Chain	90-85	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	90-85	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	90-85	223-505	Steel; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	90-87	223-732T	Hardened; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	86-85	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	86-85	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-87	CS-783	w/o Balance shaft
1	Camshaft	86-85	CS-756	
12	Lifter	90-87	HT-2148	Std Only Hyd. rlr.

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# GM Car

## 58 4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85

(cont.) VIN Code "Z" 1985-93

VALVE TRAIN

VALVE TRAIN

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	86-85	HT-817 Std Only	Hyd.
12	Lifter, Bulk	90-87	HT-2148B Std Only	Hyd. rlr.; Carton of 128
12	Lifter, Bulk	86-85	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	90-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-87	KC-783	w/o Balance shaft; Hyd. rlr.; Incl. (1) CS-783, (12) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	86-85	KC-756	Hyd.; Incl. (1) CS-756, (12) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-87	KCT-783A	w/o Balance shaft; Incl. hardened cam sprocket; Hyd. rlr.; Incl. (1) CS-783, (12) HT-2148, (1) KT3-499SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	KCT-756	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-756, (12) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-87	RP-3262	7.1920" O.A.L.
12	Push Rod	86-85	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
12	Push Rod	86-85	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
12	Push Rod	86-85	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
12	Push Rod	86-85	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
12	Push Rod	86-85	RP-3093	7.7940" O.A.L.
12	Push Rod, Bulk	90-87	BRP-3262	Carton of 100; 7.1920" O.A.L.
12	Push Rod, Bulk	86-85	BRP-3093	Carton of 100; 7.7940" O.A.L.
12	Push Rod, Bulk	86-85	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	86-85	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-87	R-973	Adj.; w/standard threads; Incl. arm, ball & nut
12	Arm Assy.	86-85	R-826	Incl. arm, ball & nut
12	Arm Assy., Bulk	90-87	R-973B	Adj.; w/standard threads; Incl. arm, ball & nut; Carton of 64
12	Arm Assy., Bulk	86-85	R-826B	Incl. arm, ball & nut; Carton of 64
12	Arm	90-87	R-973A	Adj.; w/standard threads
12	Arm	86-85	R-826A	
12	Pivot Ball	90-85	MR-1783	Adj.; w/standard threads
12	Pivot Ball	90-85	MR-1822	H/D 4 groove ball
12	Pivot Ball	90-85	MR-1946	Non-Adj.; w/metric threads
12	Nut	90-85	MR-1947	w/Metric threads; 10 x 1.25 threads
12	Nut	90-85	MR-1751	Adj.; w/std. threads; Self-locking, 3/8" x 24 threads
12	Stud	90-85	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	90-85	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Intake	90-85	V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
6	Intake, Bulk	90-85	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-85	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	90-85	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	90-85	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	90-85	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	90-85	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-85	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-85	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-85	VS-677	Incl. damper; 2.0300" Free Height
12	Spring, Bulk	90-85	VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-85	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal	90-85	MV-1921	Umbrella type; Nylon
12	Valve Stem Seal Bulk	90-85	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	90-85	MV-1921B	Umbrella type; Carton of 100; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-85	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.	90-85	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.	90-85	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-85	VK-115	1 groove; Square cut key groove
24	Keeper	90-85	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	90-85	VK-115B	1 groove; Square cut key groove; Carton of 1000

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QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
6	Rotocap	90-85	RC-157S	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90-85	H824CP20 20-30-40-60	Optional low comp.; Use w/E-229K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	90-85	H645NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/E-229K or E-229X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston	90-85	645P Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
6	Cast Piston	90-85	640P Std-20-30-40-60-80	Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	90-85	W640P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	90-85	WH824CP30 * 30-60	Optional low comp.; Use w/WE-229K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	90-85	WH645NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/WE-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	90-85	W645P Std-30-40-60	Perf. or reg. duty operation; Use w/WE-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	90-85	6K640P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-85	6X640P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-85	E-459K Std-20-30-40-60	.190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
1	Premium Set	90-85	E-229K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-85	E-459X Std-20-30-40-60	.190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-85	WE-459K Std-20-30-40-60	.190" deep oil ring groove; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-85	WE-229K Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-85	6687M10 10-20-30	.020" O/S length flange brg.
1	Main Set	90-85	5085M Std-1-10-20-30-40	w/std. length flange brg.
1	Main Set	90-85	5085MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	90-85	7380MA10X20 10X20	<b>A-Series aluminum bearings; Use in .020" O/S Bore</b>
1	Rod Set	90-85	6-1020CP Std-.026-.25-.50-.75-1.00MM	
1	Rod Set	90-85	6-1020A Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-85	6-1020A25X2 25X2-50X2-75X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
6	Rod Pair	90-85	1020CP Std-.026-.25-.50-.75-1.00MM	
6	Rod Pair	90-85	1020A Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Cam Set	90-85	1463M Std-1	Exc. Engs. w/"T" before the I.D. No. located on front of block; Babbitt material; Full round design
1	Cam Set	90-85	1791M Std Only	Exc. Engs. w/"T" before the I.D. No. located on front of block; O.E. split type design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90	224-43469V	High Volume, check pan for clearance; 3/4" inlet; Use w/steel guide
1	Oil Pump	90	224-43469	3/4" inlet; w/nylon shaft guide
1	Oil Pump	90-85	224-4146A	High Pressure; 5/8" inlet
1	Oil Pump	90-85	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	90-85	224-4146	5/8" inlet
1	Inter. Shaft	90	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	90-85	224-6146	Use w/nylon shaft guide

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# GM Car

**58** 4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85  
(cont.) VIN Code "Z" 1985-93

BLOCK	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump Shaft Guide	90-85	224-43343	Nylon
	1	Screen Assy.	90-85	224-1246	5/8" inlet tube
	1	Tool	90-85	MT-J21882	Pump screen installation tool for 5/8" tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-87	260-1241	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86	260-1240	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	85	260-1239	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-86	381-8058		
1	Brass Block Plug Kit	85	381-8049		
1	Steel Block Plug Kit	85	381-9676		

KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
	90-87	w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6021 205-6021M	205-1021 205-1021M
	86	w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6020 205-6020M	205-1020 205-1020M
	85	w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6019 205-6019M	205-1019 205-1019M
	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
	90-87	w/.190" deep oil ring groove; Exc. Eng. w/"T" before the I.D. No. located on front of block; w/o Balance shaft; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons		MKP-6021A MK-6021A	MKP-1021A MK-1021A
	90-87	w/.190" deep oil ring groove; Exc. Eng. w/"T" before the I.D. No. located on front of block; w/o Balance shaft; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains		505-6021A	505-1021A
	90-87	Exc. Eng. w/"T" before the I.D. No. located on front of block; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs		BKP-6067	----
90-87	Exc. Eng. w/"T" before the I.D. No. located on front of block; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6067	----	
90-87	Exc. Eng. w/"T" before the I.D. No. located on front of block; w/o Balance shaft; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Oil pump not incl.	Master		MKP-6380	----	
86	w/.190" deep oil ring groove; Exc. Eng. w/"T" before the I.D. No. located on front of block; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons		MKP-6020A MK-6020A	MKP-1020A MK-1020A	
86	w/.190" deep oil ring groove; Exc. Eng. w/"T" before the I.D. No. located on front of block; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains		505-6020A	505-1020A	
86	Exc. Eng. w/"T" before the I.D. No. located on front of block; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 645P piston	Block w/Pump & Freeze Plugs		BKP-6050	----	

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**4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85 58**

VIN Code "Z" 1985-93 (cont.)

<b>K I T S</b>	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>	
	86	Exc. Engs. w/"T" before the I.D. No. located on front of block; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 645P piston	<b>BK-6050</b>	----	
	85	w/.190" deep oil ring groove; Exc. Engs. w/"T" before the I.D. No. located on front of block; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; w/.405" tooth width sprocket	<b>MKP-6019A</b> <b>MK-6019A</b>	<b>MKP-1019A</b> <b>MK-1019A</b>	
	85	w/.190" deep oil ring groove; Exc. Engs. w/"T" before the I.D. No. located on front of block; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	<b>505-6019A</b>	<b>505-1019A</b>	

**4.3L 262 OHV Diesel V6 (Oldsmobile), 4.057" Bore 1985-82 59**

VIN Codes "T" 1982-85, "V" 1982-85, "7" 1985

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
		12	Lifter	85-82	<b>HT-2104</b> Std Only	
	12	Lifter, Bulk	85-82	<b>HT-2104B</b> Std Only	Hyd. rlr.; Carton of 113	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Arm Assy.	85-82	<b>R-882</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge	
	6	Arm Assy., Bulk	85-82	<b>R-882B</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32	
	12	Arm	85-82	<b>R-882A</b>		
	12	Arm, Bulk	85-82	<b>R-882AB</b>	Carton of 64	
	6	Pivot	85-82	<b>MR-1903</b>		
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Valve Stem Seal	85-82	<b>MV-1819C</b>	Int.; Umbrella type; Nylon	
	6	Valve Stem Seal Bulk	85-82	<b>MV-1819</b>	Int.; Umbrella type; Carton of 50; Nylon	
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	24	Keeper	85-82	<b>VK-115</b>	1 groove; Square cut key groove	
	24	Keeper	85-82	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	
	24	Keeper, Bulk	85-82	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
	12	Spring Insert	85-82	<b>259-303C</b>	.015"; ID .703"; Carton of 100	
	12	Spring Insert	85-82	<b>259-303B</b>	.030"; ID .703"; Carton of 100	
	12	Spring Insert	85-82	<b>259-303A</b>	.060"; ID .703"; Carton of 100	
	12	Spring Insert	85-82	<b>259-303ARS</b>	.060"; ID .703"; Carton of 500	
	6	Rotocap	85-82	<b>RC-140</b>		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam Set	85-82	<b>1489M</b> Std Only		
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	85-82	<b>381-8049</b>		
	1	Steel Block Plug Kit	85-82	<b>381-9676</b>		

**4.3L 263 OHV L8 (Buick), 3.1875" Bore 1953-50 60**

<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	53-50	<b>VK-97</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	53-50	<b>E-247KC30</b> 30-40-60	2-3/32, 2-3/16
1	Standard Set	53-50	<b>E-247X</b> Std-30-40-60-80	2-3/32, 2-3/16
8	Standard Single Cylinder Set	53-50	<b>WE-247X</b> Std-30-40	2-3/32, 2-3/16

**4.3L 264 OHV V8 (Buick), 3.625" Bore 1955-54 61**

<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	55-54	<b>VG-628</b>	Exh.; .3745" ID, 2.7500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	55-54	<b>VS-527</b>	Inner; 2.0100" Free Height
16	Spring	55-54	<b>VS-612</b>	Outer; 2.0700" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	55-54	<b>ST-2014</b>	Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal Bulk	55-54	<b>ST-2014BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; PTFE

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## 61 4.3L 264 OHV V8 (Buick), 3.625" Bore 1955-54

(cont.)

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	55-54	VK-97	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	55-54	E-239K Std-30-60	2-5/64, 1-3/16
1	Standard Set	55-54	E-239X Std-30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	55-54	WE-239X Std-30	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	55-54	SL-17M Std Only	3/32" wall, must be cut to correct length & notched

## 62 4.3L 265 OHV V8 (Pontiac), 3.75" Bore 1981-80

VIN Code "S" 1980-81

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	81-80	222-365	60 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	80	CS-690	
16	Lifter	81-80	HT-969 Std Only	Hyd.; w/.440" wide oil groove
16	Lifter, Bulk	81-80	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	81-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80	KC-690A	Hyd.; Incl. (1) CS-690, (16) HT-969, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	81-80	RP-3206	8.0450" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	81-80	R-1032	Incl. arm, ball & nut
16	Arm Assy., Bulk	81-80	R-1032B	Incl. arm, ball & nut; Carton of 64
16	Arm	81-80	R-849A	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	81-80	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	81-80	MV-1233C	O-Ring; Rubber
8	Valve Stem Seal	81-80	MV-1888C	Int.; Positive type; Viton®
16	Valve Stem Seal Bulk	81-80	MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	81-80	MV-1888	Int.; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	81-80	245-1437-2N Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth
8	Exh.	81-80	245-1437-2 Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
8	Int.	81-80	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	81-80	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	81-80	VK-115	1 groove; Square cut key groove
32	Keeper	81-80	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	81-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	81-80	259-201B	.030"; Carton of 100
16	Spring Insert	81-80	259-201A	.060"; Carton of 100
16	Spring Insert	81-80	259-201ARS	.060"; Carton of 500
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	81-80	5092M Std-10-20	
1	Rod Set	81-80	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	81-80	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	81-80	1220M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	81-80	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen
1	Inter. Shaft	81-80	224-61236	
1	Screen Assy.	81-80	224-11236	3/4" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	81-80	260-1122	Premium valve stem seals incl.

## 63 4.3L 265 OHV V8 (Chevrolet), 3.75" Bore 1957-55

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	57-55	KT3-489S	Incl. (1) 222-489, (1) 223-261, (1) 223-262
1	Timing Chain	57-55	222-489	46 Links
1	Crank Sprocket	57-55	223-262	18 Teeth
1	Cam Sprocket	57-55	223-261	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	57-55	CS-273	Use w/Hyd. lifters

(continued on next page)

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	(cont.) Lifter	57-55	<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk	57-55	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube	57-55	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	57-55	<b>KC-273</b>	Hyd.; Incl. (1) CS-273, (16) HT-817, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	57-55	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	57-55	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	57-55	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	57-55	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	57-55	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	57-55	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	57-55	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	57-55	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	57-55	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	57-55	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	57-55	<b>R-826A</b>	
16	Stud	57-55	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	57-55	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	57-55	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	57-55	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	57-55	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	57-55	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	57-55	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	57-55	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	57-55	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	57-55	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	57-55	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	57-55	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	57-55	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	57-55	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	57-55	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	57-55	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	57-55	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	57-55	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	57-55	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	57-55	<b>259-201B</b>	.030"; Carton of 100
16	Spring Insert	57-55	<b>259-201A</b>	.060"; Carton of 100
16	Spring Insert	57-55	<b>259-201ARS</b>	.060"; Carton of 500
8	Rotocap	57-55	<b>RC-157S</b>	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	57-55	<b>233P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.4:1 C.R.
8	Cast Piston - Individual	57-55	<b>W233P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.4:1 C.R.
8	Pin	57-55	<b>P-2208</b> Std-3-5-0015	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	57-55	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	57-55	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	57-55	<b>WE-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	57-55	<b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	57-55	<b>994M</b> Std-1-10-20-30-40	
1	Rod Set	57-55	<b>8-2020CP</b> Std-1-10-20-30-40	
8	Rod Pair	57-55	<b>2020CP</b> Std-1-2-10-20-30-40-50	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

## 63 4.3L 265 OHV V8 (Chevrolet), 3.75" Bore 1957-55 (cont.)

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
		(cont.)			
	1	Cam Set	57-55	1145M Std Only	Babbitt material; Full round design
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	57-55	224-43363	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	57	260-1000	Rear main brg. seal not incl.	
2	Head Bolt Set	57-55	260-2500		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	57-55	381-8007		
1	Steel Block Plug Kit	57-55	381-4011		

## 64 4.4L 267 OHV V8 (Chevrolet), 3.5" Bore 1982-79 VIN Code "J" 1979-82

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	82-79	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
	1	Timing Set w/Gaskets	82-79	CTS-1000	w/.405" tooth width sprocket
	1	Timing Chain	82-79	222-499	Use w/.405" tooth width sprocket; 46 Links
	1	Crank Sprocket	82-79	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Cam Sprocket	82-79	223-390	.405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	82-79	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	82-80	CS-711	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
	1	Camshaft	79	CS-673	
1	Performance Cam	80-79	CS-1103R		
1	Performance Cam	80-79	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	80-79	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees	
16	Lifter	82-79	HT-817 Std Only	Hyd.	
16	Lifter, Bulk	82-79	HT-817B Std Only	Hyd.; Carton of 128	
1	Prelube	82-79	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	82-80	KC-711	Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	80-79	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	80-79	KC-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	80-79	KC-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	79	KC-673	Hyd.; Incl. (1) CS-673, (16) HT-817, (1) 55-403B	
1	Cam/Lifter/Timing Kit	82-80	KCT-711	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	79	KCT-673	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-673, (16) HT-817, (1) KT3-499S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	82-79	RP-3212R	Chrome-Moly; 7.7900" O.A.L.	
16	Push Rod	82-79	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.	
16	Push Rod	82-79	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.	
16	Push Rod	82-79	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.	
16	Push Rod	82-79	RP-3093	7.7940" O.A.L.	
16	Push Rod, Bulk	82-79	BRP-3093	Carton of 100; 7.7940" O.A.L.	
16	Push Rod, Bulk	82-79	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.	
16	Push Rod, Bulk	82-79	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm Assy.	82-79	R-826	Incl. arm, ball & nut	
16	Arm Assy., Bulk	82-79	R-826B	Incl. arm, ball & nut; Carton of 64	

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		<b>QTY</b>	<b>ROCKER PARTS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>VALVE TRAIN</b>	16	Arm	82-79	<b>R-826A</b>		
	16	Nut	82-79	<b>MR-1751</b>		Self-locking, 3/8" x 24 threads
	16	Stud	82-79	<b>MR-1752</b>		.003" O/S, 3/8" x 24 x 2.495"
	16	Stud	82-79	<b>MR-1949</b>		3/8" x 24 x 2.495"
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Intake	82-79	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake, Bulk	82-79	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Guide	82-79	<b>VG-5005</b>	Exh.; .3430" ID, 2.2500" O.A.L.	
	8	Guide	82-79	<b>VG-5005H</b>	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.	
	8	Guide	82-79	<b>VG-5005T</b>	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.	
	8	Guide	82-79	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.	
	8	Guide, Bulk	82-79	<b>VG-5005B</b>	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.	
	8	Guide, Bulk	82-79	<b>VG-5005TB</b>	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.	
	8	Guide, Bulk	82-79	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Spring	82-79	<b>VS-677</b>	Incl. damper; 2.0300" Free Height		
16	Spring, Bulk	82-79	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal	82-79	<b>MV-1233C</b>	O-Ring; Rubber		
16	Valve Stem Seal	82-79	<b>MV-1921</b>	Umbrella type; Nylon		
16	Valve Stem Seal Bulk	82-79	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber		
16	Valve Stem Seal Bulk	82-79	<b>MV-1921B</b>	Umbrella type; Carton of 100; Nylon		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Exh.	82-79	<b>245-1437-2N</b> Std Only	Premium Material; 1.4425" OD, 1.2190" ID, .2160" Depth		
8	Exh.	82-79	<b>245-1437-2</b> Std Only	1.4425" OD, 1.2190" ID, .2160" Depth		
8	Int.	82-79	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
32	Keeper	82-79	<b>VK-115</b>	1 groove; Square cut key groove		
32	Keeper	82-79	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened		
32	Keeper, Bulk	82-79	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000		
16	Spring Insert	82-79	<b>259-203C</b>	.015"; Carton of 100		
16	Spring Insert	82-79	<b>259-203B</b>	.030"; Carton of 100		
16	Spring Insert	82-79	<b>259-203BRS</b>	.030"; Carton of 500		
16	Spring Insert	82-79	<b>259-203A</b>	.060"; Carton of 100		
16	Spring Insert	82-79	<b>259-203ARS</b>	.060"; Carton of 500		
8	Rotacap	82-79	<b>RC-157S</b>			
<b>BLOCK</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	82-79	<b>E-236K</b> Std-30	2-5/64, 1-3/16	
	1	Standard Set	82-79	<b>E-236X</b> Std-30-40	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	82-79	<b>WE-236K</b> Std-30	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	82-79	<b>WE-236X</b> Std-30-40	2-5/64, 1-3/16	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	82-79	<b>4663M</b> Std-1-2-10-20-30-40-60	.020" O/S length flange brg.	
	1	Main Set	82-79	<b>6688M10</b> 10-20-30	<b>A-Series aluminum bearings</b>	
	1	Main Set	82-79	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.	
	1	Main Set	82-79	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b>	
	1	Rod Set	82-79	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
	1	Rod Set	82-79	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore	
	1	Rod Set	82-79	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
	1	Rod Set	82-79	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
	1	Rod Set	82-79	<b>8-2555CA60</b> 60	Unplated & resizeable	
	8	Rod Pair	82-79	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
	8	Rod Pair	82-79	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy	
	8	Rod Pair	82-79	<b>2555CA60</b> 60	Unplated & resizeable	
	1	Cam Set	82-79	<b>1235M</b> Std-1-10	Babbitt material; Full round design	
	1	Cam Set	82-79	<b>1749M</b> Std Only	Bi-Metal Aluminum	
1	Cam Set	82-79	<b>1750M</b> Std Only	2.030" housing bore		

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# GM Car

## 64 4.4L 267 OHV V8 (Chevrolet), 3.5" Bore 1982-79

(cont.) VIN Code "J" 1979-82

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	82-79	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	82-79	224-4146	5/8" inlet
	1	Inter. Shaft	82-79	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
	1	Inter. Shaft	82-79	224-6146	Use w/nylon shaft guide
	1	Oil Pump Shaft Guide	82-79	224-43343	Nylon
1	Screen Assy.	82-79	224-1246	5/8" inlet tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
2	Head Bolt Set	82-79	260-2500		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	82-79	381-8007		
1	Steel Block Plug Kit	82-79	381-4011		

## 65 4.5L 273 (4474cc) OHV V8 (Cadillac), 92mm Bore 1990-88

VIN Codes "3" 1990, "5" 1988-90, "8" 1989-92

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	90-89	KT3-503SA	VIN Code "8"; Incl. (1) 222-503, (1) 223-533, (1) 223-706
	1	3 Piece Set	90-88	KT3-503S	VIN Code "5"; Incl. (1) 222-503, (1) 223-533, (1) 223-546
	1	Timing Chain	90-88	222-503	44 Links
	1	Crank Sprocket	90-88	223-533	17 Teeth
	1	Cam Sprocket	90-89	223-706	VIN Code "8"; 34 Teeth
	1	Cam Sprocket	90-88	223-546	VIN Code "5"; 34 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	90-88	CS-1540	
	16	Lifter	90-88	HT-2148 Std Only	Hyd. rlr.
16	Lifter, Bulk	90-88	HT-2148B Std Only	Hyd. rlr.; Carton of 128	
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	90-88	KC-1540	Hyd. rlr.; Incl. (1) CS-1540, (16) HT-2148, (1) 55-403B	
1	Cam/Lifter/Timing Kit	90-89	KCT-1540	VIN Code "8"; Hyd. rlr.; Incl. (1) CS-1540, (16) HT-2148, (1) KT3-503SA, (1) 55-403B	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm	90-88	R-913		
16	Arm, Bulk	90-88	R-913B	Carton of 64	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
8	Exhaust	90	V-2522 Std Only	Chrome plated stem; 1.4960" Head Dia., .3405" Stem Dia., 4.7130" O.A.L.	
8	Exhaust	89-88	V-2528 Std Only	Chrome plated stem; w/round cut groove; 1.2990" Head Dia., .3404" Stem Dia., 4.7290" O.A.L.	
8	Intake	90	V-2521 Std Only	Chrome plated stem; 1.7720" Head Dia., .3417" Stem Dia., 4.8000" O.A.L.	
8	Intake	89-88	V-3948 Std Only	Chrome plated stem; w/round cut groove; 1.5350" Head Dia., .3416" Stem Dia., 4.8230" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
16	Guide	90-88	VG-5006	Exh. & Int.; .3440" ID, 2.3750" O.A.L.	
16	Guide	90-88	VG-5006T	Exh. & Int.; Threaded; .3425" ID, 2.3800" O.A.L.	
16	Guide, Bulk	90-88	VG-5006B	Exh. & Int.; Carton of 50; .3440" ID, 2.3750" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	90	VS-1531	Exh.; Exc. Export & Fed. Emis.; 2.1800" Free Height	
16	Spring	90	VS-1551	Exh. & Int.; Export & Fed. Emis.; 2.1930" Free Height	
8	Spring	90	VS-1532	Int.; Exc. Export & Fed. Emis.; 2.2650" Free Height	
8	Spring	89-88	VS-1531	Exh.; Exc. Export & Fed. Emis.; 2.1800" Free Height	
16	Spring	89-88	VS-1552	Exh. & Int.; Export & Fed. Emis.; 1.9490" Free Height	
8	Spring	89-88	VS-1532	Int.; Exc. Export & Fed. Emis.; 2.2650" Free Height	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Exh.	90	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth	
8	Exh.	89-88	245-1375-1 Std Only	1.3795" OD, 1.1250" ID, .2160" Depth	
8	Int.	89-88	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston	90	573P Std-.25MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.240" CD, .8661" Pin Dia., Recessed Head .020" deep x 2.940" dia.	
8	Cast Piston	89	572P Std-.50MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.627" CD, .8661" Pin Dia., Recessed Head .160" deep x 2.940" dia.	
8	Cast Piston	88	572P Std-.50MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.627" CD, .8661" Pin Dia., Recessed Head .160" deep x 2.940" dia.	

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**4.5L 273 (4474cc) OHV V8 (Cadillac), 92mm Bore 1990-88 65**

VIN Codes "3" 1990, "5" 1988-90, "8" 1989-92 (cont.)

QTY		PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston - Individual	90	<b>W573P</b> Std-.25MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.240" CD, .8661" Pin Dia., Recessed Head .020" deep x 2.940" dia.		
8	Cast Piston - Individual	89	<b>W572P</b> Std-.50MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.627" CD, .8661" Pin Dia., Recessed Head .160" deep x 2.940" dia.		
8	Cast Piston - Individual	88	<b>W572P</b> Std-.50MM	Exc. Allante; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.627" CD, .8661" Pin Dia., Recessed Head .160" deep x 2.940" dia.		
QTY		RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-88	<b>E-534K</b> Std-.25MM	2-1.50MM, 1-3.00MM		
1	Standard Set	90-88	<b>E-534X</b> Std Only	2-1.50MM, 1-3.00MM		
8	Premium Single Cylinder Set	90-88	<b>WE-534K</b> Std Only	2-1.50MM, 1-3.00MM		
QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90	<b>7256MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b> ; w/std. length flange brg.		
1	Main Set	90-88	<b>7222M.25MM</b> .25MM	Use in .25MM O/S Housing Bore		
1	Main Set	89-88	<b>7046MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b> ; w/std. length flange brg.		
1	Rod Set	90-88	<b>8-3870RA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>		
1	Rod Set	90-88	<b>8-3870RA25X2</b> 25X2-.75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore		
8	Rod Pair	90-88	<b>3870RA</b> Std-.026-.25-.50-.75MM	<b>A-Series aluminum bearings</b>		
1	Cam Set	90-88	<b>1757M</b> Std Only			
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90	<b>224-43433S</b>	VIN Codes "3" & "8"; If screen assy. touches baffles in oil pan - oil pan must be replaced w/O.E. No. 3532055; Incl. screen		
1	Oil Pump	89	<b>224-43433S</b>	VIN Codes "5" & "8"; If screen assy. touches baffles in oil pan - oil pan must be replaced w/O.E. No. 3532055; Incl. screen		
1	Oil Pump	88	<b>224-43433S</b>	VIN Code "5"; If screen assy. touches baffles in oil pan - oil pan must be replaced w/O.E. No. 3538466; Incl. screen		
1	Pump Repair Kit	90-88	<b>224-5129</b>	Exc. VIN Code "8"; Use w/oil pump housing having 9 tooth gears		
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90	<b>260-1475</b>	VIN Codes "3" & "8"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-88	<b>260-1474</b>	VIN Code "5"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	89	<b>260-1475</b>	VIN Code "8"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90	VIN Codes "3" & "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6356M</b>	<b>205-1356M</b>
90	VIN Codes "3" & "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6356</b>	<b>205-1356</b>
90-88	VIN Code "5"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6146</b>	----
89	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6147M</b>	----
89	VIN Code "8"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6356</b>	<b>205-1356</b>
89-88	VIN Code "5"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-6146M</b>	----

**BLOCK**

**BLOCK**

**KITS**

**KITS**

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# GM Car

## 65 4.5L 273 (4474cc) OHV V8 (Cadillac), 92mm Bore 1990-88

(cont.) VIN Codes "3" 1990, "5" 1988-90, "8" 1989-92

K I T S	OVERHAUL KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90	VIN Code "5"; Exc. Allante; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block	<b>BK-6069</b>	----
	90	VIN Code "3"; Exc. Allante; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/std. length flange brg.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block	<b>BK-6071</b>	----

## 66 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	3 Piece Set	67	<b>KT3-499S</b>	
	1	3 Piece Set	66-57	<b>KT3-489S</b>	Incl. (1) 222-489, (1) 223-261, (1) 223-262	
	1	Timing Set w/Gaskets	66-57	<b>CTS-1002</b>	Incl. double rlr. type chain	
	1	Timing Chain	67	<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links	
	1	Timing Chain	66-57	<b>222-489</b>	46 Links	
	1	Crank Sprocket	67	<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth	
	1	Crank Sprocket	66-57	<b>223-262</b>	18 Teeth	
	1	Cam Sprocket	67	<b>223-390</b>	.405" tooth width sprocket; 36 Teeth	
	1	Cam Sprocket	67	<b>223-390N</b>	Nylon; .405" tooth width sprocket; 36 Teeth	
	1	Cam Sprocket	66-57	<b>223-261</b>	36 Teeth	
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	67-63	<b>CS-274</b>		
	1	Camshaft	62	<b>CS-273</b>	w/2 Bbl. Carb.; Use w/Hyd. lifters	
	1	Camshaft	62	<b>CS-274</b>	w/4 Bbl. Carb.	
	1	Camshaft	61-60	<b>CS-273</b>	w/2 Bbl. Carb.; Exc. w/high lift cam; Use w/Hyd. lifters	
	1	Camshaft	61-60	<b>CS-274</b>	w/4 Bbl. Carb.; Exc. w/high lift cam	
	1	Camshaft	59-57	<b>CS-274</b>	Exc. w/high lift cam	
	1	Performance Cam	67-57	<b>CS-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	67-57	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	67-57	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	61-60	<b>CS-113R</b>	w/high lift cam; Pro-5000 Perf. Cam; Mech.; Duration at .050: 228 Int., 230 Exh.; Valve lift .3950" Int., .4010" Exh.; Lobe Separation 110 Degrees	
	1	Performance Cam	59-57	<b>CS-113R</b>	w/high lift cam; Pro-5000 Perf. Cam; Mech.; Duration at .050: 228 Int., 230 Exh.; Valve lift .3950" Int., .4010" Exh.; Lobe Separation 110 Degrees	
	16	Lifter	67-62	<b>HT-817</b> Std Only	Hyd.	
	16	Lifter	61-57	<b>AT-992</b> Std Only	w/high lift cam; Mech.	
	16	Lifter	61-57	<b>HT-817</b> Std Only	Exc. w/high lift cam; Hyd.	
	16	Lifter, Bulk	67-62	<b>HT-817B</b> Std Only	Hyd.; Carton of 128	
	16	Lifter, Bulk	61-57	<b>AT-992B</b> Std Only	w/high lift cam; Mech.; Carton of 128	
	16	Lifter, Bulk	61-57	<b>HT-817B</b> Std Only	Exc. w/high lift cam; Hyd.; Carton of 128	
	1	Prelube	67-57	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	67-63	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	67-62	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	67-62	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	67-62	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	62	<b>KC-273</b>	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-273, (16) HT-817, (1) 55-403B	

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**4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57 66**

(cont.)

<b>QTY</b>	<b>CAM KIT (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	62	<b>KC-274</b>	w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	61-60	<b>KC-273</b>	w/2 Bbl. Carb.; Exc. w/high lift cam; Hyd.; Incl. (1) CS-273, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	61-60	<b>KC-274</b>	w/4 Bbl. Carb.; Exc. w/high lift cam; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	61-57	<b>KC-1103R</b>	Exc. w/high lift cam; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	61-57	<b>KC-1014R</b>	Exc. w/high lift cam; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	61-57	<b>KC-1106R</b>	Exc. w/high lift cam; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	59-57	<b>KC-274</b>	Exc. w/high lift cam; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	67	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-63	<b>KCT-274A</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
1	Cam/Lifter/Timing Kit	62	<b>KCT-274A</b>	w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
1	Cam/Lifter/Timing Kit	61-60	<b>KCT-274A</b>	w/4 Bbl. Carb.; Exc. w/high lift cam; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
1	Cam/Lifter/Timing Kit	59-57	<b>KCT-274A</b>	Exc. w/high lift cam; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	67-57	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	67-57	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	67-57	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	67-57	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	67-57	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	67-57	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	67-57	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	67-57	<b>R-826A</b>	
16	Pivot Ball	67-57	<b>MR-1783</b>	
16	Pivot Ball	67-57	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	67-57	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	67-57	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	67-57	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	67-57	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	67-57	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	67-57	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	67-57	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	67-57	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	67	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
16	Spring	67	<b>VS-739R</b>	Optional-H/D; 2.0000" Free Height
8	Spring	66-57	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
8	Spring, Bulk	67	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	67	<b>VS-739RB</b>	Optional-H/D; Carton of 300; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	67-57	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	67-57	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 66 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57

(cont.)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	63-61	ST-2018R	Positive type; Installation requires valve guide machining; Use w/double spring; PTFE
8	Valve Stem Seal	59	MV-1711	Int.; Positive type; Carton of 100; Rubber
16	Valve Stem Seal	67-60	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal	67-57	MV-1598C	Umbrella type; Rubber
8	Valve Stem Seal	59	MV-1233C	Exh.; O-Ring; Rubber
16	Valve Stem Seal	58-57	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	67-60	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	67-57	MV-1598	Umbrella type; Carton of 100; Rubber
16	Valve Stem Seal Bulk	67-57	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	63-61	ST-2018RBC	Positive type; Installation requires valve guide machining; Carton of 100; Use w/double spring; PTFE
8	Valve Stem Seal Bulk	59	MV-1233	Exh.; O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	58-57	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-57	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	67-57	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	67-57	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-57	VK-115	1 groove; Square cut key groove
32	Keeper	67-57	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-57	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-57	259-203C	.015"; Carton of 100
16	Spring Insert	67-57	259-203B	.030"; Carton of 100
16	Spring Insert	67-57	259-203BRS	.030"; Carton of 500
16	Spring Insert	67-57	259-203A	.060"; Carton of 100
16	Spring Insert	67-57	259-203ARS	.060"; Carton of 500
8	Rotocap	66-57	RC-1575	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	67-57	235P + Std-20-30-40-60	Exc. MFI; Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 235NP
8	Cast Piston	67-57	235NP Std-20-30-40-60	Exc. MFI; Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	67-57	W235P + Std-20-30-40-60	Exc. MFI; Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W235NP
8	Cast Piston - Individual	67-57	W235NP Std-20-30-40-60	Exc. MFI; Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Powerforged	67-64	L-2163F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	63-62	L-2163F30 30-40-60	Exc. w/high lift cam; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	61	L-2163F30 30-40-60	w/o FI; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	60-58	L-2163F30 30-40-60	Exc. w/high lift cam; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	67-64	WL-2163F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	63-62	WL-2163F30 30-40-60	Exc. w/high lift cam; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	61	WL-2163F30 30-40-60	w/o FI; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	60-58	WL-2163F30 30-40-60	Exc. w/high lift cam; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	67-57	E-245K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-57	E-245X Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	67-57	WE-245K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	67-57	WE-245X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-57	994M Std-1-10-20-30-40	

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QTY		ENGINE BEARINGS			DESCRIPTION
		YEARS	PART NO.		
<b>B L O C K</b>	1	(cont.) Rod Set	67-57	<b>8-2020CP</b>	Std-1-10-20-30-40
	8	Rod Pair	67-57	<b>2020CP</b>	Std-1-2-10-20-30-40-50
	1	Cam Set	67-64	<b>1235M</b>	Std-1-10
	1	Cam Set	67-64	<b>1749M</b>	Std Only
	1	Cam Set	67-64	<b>1750M</b>	Std Only
	1	Cam Set	63-57	<b>1145M</b>	Std Only
	<b>DESCRIPTION</b>				
	1	Oil Pump	67-64	<b>224-4149</b>	Chevy II; w/shallow sump oil pan
	1	Oil Pump	67-64	<b>224-4143</b>	Exc. Chevy II; High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	67-64	<b>224-4146</b>	Exc. Chevy II; 5/8" inlet
	1	Oil Pump	63-58	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	63-58	<b>224-4146</b>	5/8" inlet
	1	Oil Pump	57	<b>224-43363</b>	
	1	Inter. Shaft	67-64	<b>224-6146E</b>	Exc. Chevy II; Has steel shaft guide; Eliminates nylon shaft guide
	1	Inter. Shaft	67-64	<b>224-6146</b>	Exc. Chevy II; Use w/nylon shaft guide
1	Inter. Shaft	63-58	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	63-58	<b>224-6146</b>	Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	67-57	<b>224-43343</b>	Use w/224-6146; Nylon	
1	Screen Assy.	67-65	<b>224-1246</b>	Exc. Chevy II; 5/8" inlet tube	
1	Screen Assy.	64	<b>224-1146</b>	Exc. Chevy II; 5/8" inlet	
1	Screen Assy.	63-58	<b>224-1146</b>	5/8" inlet	
<b>DESCRIPTION</b>					
<b>QTY</b>		<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	67-59	<b>260-1000</b>	Exc. MFI	
1	Kit Gasket Set	67-59	<b>260-1079</b>	Premium Set; Performance head gskt. incl.; Performance manifold gskts. incl.; Complete set	
1	Kit Gasket Set	58-57	<b>260-1000</b>	Exc. MFI; Rear main brg. seal not incl.	
2	Head Bolt Set	67-57	<b>260-2500</b>		
<b>DESCRIPTION</b>					
<b>QTY</b>		<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	67-58	<b>381-8007</b>		
1	Steel Block Plug Kit	67-58	<b>381-4011</b>		
<b>DESCRIPTION</b>					
<b>RE-RING KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
67-59	Exc. MFI	Re-ring	<b>205-619</b>	<b>205-119</b>	
		Re-ring w/Mains	<b>205-619M</b>	<b>205-119M</b>	
58-57	Exc. MFI; Rear main brg. seal not incl.	Re-ring	<b>205-619</b>	<b>205-119</b>	
		Re-ring w/Mains	<b>205-619M</b>	<b>205-119M</b>	
<b>DESCRIPTION</b>					
<b>OVERHAUL KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
67	Exc. Chevy II; Exc. MFI; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-619F</b>	<b>MKP-119F</b>	
		Master w/o Pistons	<b>MK-619F</b>	<b>MK-119F</b>	
		Master w/o Rods & Mains	<b>505-619F</b>	<b>505-119F</b>	
67	Chevy II; Exc. MFI; w/shallow sump oil pan; w/.405" tooth width sprocket	Master	<b>MKP-619G</b>	<b>MKP-119G</b>	
		Master w/o Pistons	<b>MK-619G</b>	<b>MK-119G</b>	
		Master w/o Rods & Mains	<b>505-619G</b>	<b>505-119G</b>	
66-64	Exc. Chevy II; Exc. MFI; Incl. 5/8" inlet oil pump	Master	<b>MKP-619D</b>	<b>MKP-119D</b>	
		Master w/o Pistons	<b>MK-619D</b>	<b>MK-119D</b>	
		Master w/o Rods & Mains	<b>505-619D</b>	<b>505-119D</b>	
66-64	Chevy II; Exc. MFI; w/shallow sump oil pan	Master	<b>MKP-619E</b>	<b>MKP-119E</b>	
		Master w/o Pistons	<b>MK-619E</b>	<b>MK-119E</b>	
		Master w/o Rods & Mains	<b>505-619E</b>	<b>505-119E</b>	
63	Exc. MFI; Incl. 5/8" inlet oil pump	Master	<b>MKP-619A</b>	<b>MKP-119A</b>	
		Master w/o Pistons	<b>MK-619A</b>	<b>MK-119A</b>	
		Master w/o Rods & Mains	<b>505-619A</b>	<b>505-119A</b>	
62	w/4 Bbl. Carb.; Incl. 5/8" inlet oil pump	Master	<b>MKP-619A</b>	<b>MKP-119A</b>	
		Master w/o Pistons	<b>MK-619A</b>	<b>MK-119A</b>	
		Master w/o Rods & Mains	<b>505-619A</b>	<b>505-119A</b>	
62	w/2 Bbl. Carb.; Incl. 5/8" inlet oil pump	Master	<b>MKP-619C</b>	<b>MKP-119C</b>	
		Master w/o Pistons	<b>MK-619C</b>	<b>MK-119C</b>	
		Master w/o Rods & Mains	<b>505-619C</b>	<b>505-119C</b>	

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# GM Car

## 66 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57

(cont.)

K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
K I T S	61-60	w/4 Bbl. Carb.; Exc. w/high lift cam; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	MKP-619A MK-619A 505-619A	MKP-119A MK-119A 505-119A	K I T S
	61-60	w/2 Bbl. Carb.; Exc. w/high lift cam; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	MKP-619C MK-619C 505-619C	MKP-119C MK-119C 505-119C	
	59	Exc. MFI; Exc. w/high lift cam; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	MKP-619A MK-619A 505-619A	MKP-119A MK-119A 505-119A	
	58	Exc. MFI; Rear main brg. seal not incl.; Exc. w/high lift cam; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	MKP-619A MK-619A 505-619A	MKP-119A MK-119A 505-119A	

## 67 4.7L 287.2 OHV V8 (Pontiac), 3.75" Bore 1955

V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Camshaft	55	CS-187		
	16	Lifter	55	HT-951 Std Only	Hyd.	
	16	Lifter, Bulk	55	HT-951B Std Only	Hyd.; Carton of 128	
	1	Prelube	55	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Cam/Lifter Kit	55	KC-187	Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B	
V A L V E T R A I N	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	16	Push Rod	55	RP-3028	9.1360" O.A.L.	
	16	Push Rod, Bulk	55	BRP-3028	Carton of 100; 9.1360" O.A.L.	
V A L V E T R A I N	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	8	Guide	55	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.	
	8	Guide	55	VG-5037	Int.; .3420" ID, 2.7500" O.A.L.	
	8	Guide	55	VG-5072	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.	
	8	Guide, Bulk	55	VG-5072B	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.	
V A L V E T R A I N	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	16	Spring	55	VS-445	Inner; 1.8120" Free Height	
	16	Spring	55	VS-446	Outer; 1.9800" Free Height	
V A L V E T R A I N	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	16	Valve Stem Seal	55	ST-2018R	Positive type; Installation requires valve guide machining; Use w/double spring; PTFE	
	16	Valve Stem Seal	55	MV-1233C	O-Ring; Rubber	
	16	Valve Stem Seal Bulk	55	MV-1233	O-Ring; Carton of 100; Rubber	
	16	Valve Stem Seal Bulk	55	ST-2018RBC	Positive type; Installation requires valve guide machining; Carton of 100; Use w/double spring; PTFE	
V A L V E T R A I N	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	32	Keeper	55	VK-115	1 groove; Square cut key groove	
	32	Keeper	55	VK-115R	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	55	VK-115B	1 groove; Square cut key groove; Carton of 1000	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Premium Set	55	E-240K Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	55	E-240X Std-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	55	WE-240K Std-20-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	55	WE-240X Std-30-40-60	2-5/64, 1-3/16	
B L O C K	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Repair Sleeve	55	SL-19M Std Only	3/32" wall, must be cut to correct length	
B L O C K	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Inter. Shaft	55	224-61236		

## 68 4.9L 300 OHV V8 (Buick), 3.75" Bore 1967-64

B L O C K	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	3 Piece Set	67-64	KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334	
	1	Timing Chain	67-64	222-359	54 Links	
	1	Crank Sprocket	67-64	223-323	20 Teeth	
	1	Cam Sprocket	67-64	223-334	40 Teeth	
B L O C K	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Camshaft	67-64	CS-364		
	16	Lifter	67-64	HT-896 Std Only	Hyd.	
	16	Lifter, Bulk	67-64	HT-896B Std Only	Hyd.; Carton of 126	
	1	Prelube	67-64	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	

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**4.9L 300 OHV V8 (Buick), 3.75" Bore 1967-64 68**

(cont.)

<b>VALVE TRAIN</b>		<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Push Rod	67-65	<b>RP-3173</b>	8.7230" O.A.L.
<b>VALVE TRAIN</b>		<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Arm	67-64	<b>R-1051</b>	
<b>VALVE TRAIN</b>		<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Exhaust	67-65	<b>V-1744</b> Std Only	1.3750" Head Dia., .3401" Stem Dia., 4.5430" O.A.L.
<b>VALVE TRAIN</b>		<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16 16	Spring Spring	67-65 64	<b>VS-644</b> <b>VS-521</b>	2.0300" Free Height Incl. damper; 2.1090" Free Height
<b>VALVE TRAIN</b>		<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16 16	Valve Stem Seal Valve Stem Seal Bulk	67-64 67-64	<b>ST-2001</b> <b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>VALVE TRAIN</b>		<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8 8 8	Exh. Exh. Int.	67-65 67-65 67-65	<b>245-1437-3N</b> Std Only <b>245-1437-3</b> Std Only <b>245-1875-6</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.4425" OD, 1.1880" ID, .2160" Depth 1.8800" OD, 1.6250" ID, .2160" Depth
		<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	67-64	<b>VK-194</b>			
<b>BLOCK</b>		<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Cast Piston	67	<b>279P</b> Std-20-30-40-60	Eng. Code "NL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston	66	<b>279P</b> Std-20-30-40-60	Eng. Code "ML"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston	65	<b>279P</b> Std-20-30-40-60	Eng. Code "LL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston	64	<b>279P</b> Std-20-30-40-60	Eng. Code "KL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston - Individual	67	<b>W279P</b> Std-20-30-40-60	Eng. Code "NL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston - Individual	66	<b>W279P</b> Std-20-30-40-60	Eng. Code "ML"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
		8	Cast Piston - Individual	65	<b>W279P</b> Std-20-30-40-60	Eng. Code "LL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	64	<b>W279P</b> Std-20-30-40-60	Eng. Code "KL"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.		
<b>BLOCK</b>		<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Premium Set	67-64	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
		1	Standard Set	67-64	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16
		8 8	Premium Single Cylinder Set Standard Single Cylinder Set	67-64 67-64	<b>WE-240K</b> Std-20-30-40-60 <b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16 2-5/64, 1-3/16
<b>BLOCK</b>		<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Repair Sleeve	67-64	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
<b>BLOCK</b>		<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1 8	Rod Set Rod Pair	67-64 67-64	<b>8-2500RAA</b> Std-10-20-30-40 <b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b> <b>A-Series aluminum bearings</b>
		1	Cam Set	67-64	<b>1421M</b> Std Only	
<b>BLOCK</b>		<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1 1 1 1	Pump Repair Kit Pump Repair Kit Pump Repair Kit Pump Repair Kit	67-64 67-64 67-64 67-64	<b>224-51382</b> <b>224-518</b> <b>224-518V</b> <b>224-518TP</b>	Gear type High Volume; Installation may require timing cover removal Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions

**4.9L 301 OHV V8 (Pontiac), 4" Bore 1981-77 69**

VIN Codes "W" 1978-81, "Y" 1977-79

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Chain	81-77	<b>222-365</b>	60 Links

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## 69 4.9L 301 OHV V8 (Pontiac), 4" Bore 1981-77

(cont.) VIN Codes "W" 1978-81, "Y" 1977-79

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	80	CS-690	VIN Code "W"
1	Camshaft	79	CS-690	w/M/T
1	Camshaft	78	CS-690	VIN Code "Y"; w/A/T
1	Camshaft	77	CS-690	w/A/T
16	Lifter	81-77	HT-969 Std Only	Hyd.; w/.440" wide oil groove
16	Lifter, Bulk	81-77	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	81-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80	KC-690A	VIN Code "W"; Hyd.; Incl. (1) CS-690, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	79	KC-690A	w/M/T; Hyd.; Incl. (1) CS-690, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	78	KC-690A	VIN Code "Y"; w/A/T; Hyd.; Incl. (1) CS-690, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	77	KC-690A	w/A/T; Hyd.; Incl. (1) CS-690, (16) HT-969, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	81-79	RP-3206	8.0450" O.A.L.
16	Push Rod	78-77	RP-3166B	-1/16" shorter length; 8.0920" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	81-77	R-1032	Incl. arm, ball & nut
16	Arm Assy., Bulk	81-77	R-1032B	Incl. arm, ball & nut; Carton of 64
16	Arm	81-77	R-849A	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	81-77	VG-5002	Exh. & Int.; .3420" ID, 3.0600" O.A.L.
16	Guide	81-77	VG-5002T	Exh. & Int.; Threaded; .3430" ID, 3.0630" O.A.L.
16	Guide, Bulk	81-77	VG-5002B	Exh. & Int.; Carton of 50; .3420" ID, 3.0600" O.A.L.
16	Guide, Bulk	81-77	VG-5002TB	Exh. & Int.; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	81-77	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	81-77	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	81-77	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	81-77	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	81-77	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	81-77	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	81-77	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	81-77	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	81-77	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	81-77	VK-115	1 groove; Square cut key groove
32	Keeper	81-77	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	81-77	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	81-77	259-203C	.015"; Carton of 100
16	Spring Insert	81-77	259-203B	.030"; Carton of 100
16	Spring Insert	81-77	259-203BRS	.030"; Carton of 500
16	Spring Insert	81-77	259-203A	.060"; Carton of 100
16	Spring Insert	81-77	259-203ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	81-77	1114P30 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Flat Head - 8.2:1 C.R.
8	Cast Piston - Individual	81-77	W1114P30 * 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Flat Head - 8.2:1 C.R.
8	Pin	81-77	P-2208 Std-3-5-0015	Pin bushing not req'd.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	81-80	E-377K Std-20-30-40	2-5/64, 1-3/16
1	Premium Set	79-77	E-251K Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	79-77	E-251KC Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	79-77	E-377K Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	81-80	E-377X Std-30-40	2-5/64, 1-3/16
1	Standard Set	79-77	E-251X Std-10-20-30-40-60-80	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Standard Set	79-77	E-377X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	81-80	WE-377K Std-20-30	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-77	WE-251K Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-77	WE-251KC Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-77	WE-377K Std-20-30	2-5/64, 1-3/16

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## 4.9L 301 OHV V8 (Pontiac), 4" Bore 1981-77 **69**

VIN Codes "W" 1978-81, "Y" 1977-79 (cont.)

BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION		
	8	Standard Single Cylinder Set	81-80	<b>WE-377X</b> Std-30	2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	79-77	<b>WE-251X</b> Std-20-30-40-60-80	.200" deep oil ring groove; 2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	79-77	<b>WE-377X</b> Std-30	2-5/64, 1-3/16		
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	81-77	<b>5092M</b> Std-10-20			
	1	Rod Set	81-77	<b>8-2500RAA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>		
	8	Rod Pair	81-77	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
	1	Cam Set	81-77	<b>1220M</b> Std Only			
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	81-77	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen		
	1	Inter. Shaft	81	<b>224-61236</b>			
	1	Inter. Shaft	80	<b>224-61236</b>			
	1	Inter. Shaft	79-77	<b>224-61236</b>			
	1	Screen Assy.	81-77	<b>224-11236</b>	3/4" inlet tube		
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	81-77	<b>260-1122</b>	Premium valve stem seals incl.		
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	81-77	<b>381-8039</b>			
	1	Steel Block Plug Kit	81-77	<b>381-4028</b>			
KITS	RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION					
	81-80	w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-651</b>	<b>205-151</b>	
			Re-ring w/Mains		<b>205-651M</b>	<b>205-151M</b>	
	79-77	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-629</b>	<b>205-129</b>	
			Re-ring w/Mains		<b>205-629M</b>	<b>205-129M</b>	
	79-77	w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-651</b>	<b>205-151</b>	
			Re-ring w/Mains		<b>205-651M</b>	<b>205-151M</b>	

## 4.9L 301 OHV Turbo V8 (Pontiac), 4" Bore 1981-80 **70**

VIN Code "T" 1980-81

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
	1	Timing Chain	81-80	<b>222-365</b>	60 Links		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
	16	Lifter	81-80	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove		
	16	Lifter, Bulk	81-80	<b>HT-969B</b> Std Only	Hyd.; Carton of 128		
	1	Prelube	81-80	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
	16	Push Rod	81-80	<b>RP-3206</b>	8.0450" O.A.L.		
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	16	Arm Assy.	81-80	<b>R-1032</b>	Incl. arm, ball & nut		
	16	Arm Assy., Bulk	81-80	<b>R-1032B</b>	Incl. arm, ball & nut; Carton of 64		
	16	Arm	81-80	<b>R-849A</b>			
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	16	Guide	81-80	<b>VG-5002</b>	Exh. & Int.; .3420" ID, 3.0600" O.A.L.		
	16	Guide	81-80	<b>VG-5002T</b>	Exh. & Int.; Threaded; .3430" ID, 3.0630" O.A.L.		
	16	Guide, Bulk	81-80	<b>VG-5002B</b>	Exh. & Int.; Carton of 50; .3420" ID, 3.0600" O.A.L.		
	16	Guide, Bulk	81-80	<b>VG-5002TB</b>	Exh. & Int.; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.		
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	16	Spring	81-80	<b>VS-521</b>	Incl. damper; 2.1090" Free Height		
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	16	Valve Stem Seal	81-80	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE		
	16	Valve Stem Seal	81-80	<b>MV-1233C</b>	O-Ring; Rubber		
	16	Valve Stem Seal Bulk	81-80	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber		
	16	Valve Stem Seal Bulk	81-80	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
	8	Exh.	81-80	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth		
	8	Exh.	81-80	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth		
	8	Int.	81-80	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth		
	8	Int.	81-80	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth		
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	32	Keeper	81-80	<b>VK-115</b>	1 groove; Square cut key groove		
	32	Keeper	81-80	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened		

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## 70 4.9L 301 OHV Turbo V8 (Pontiac), 4" Bore 1981-80

(cont.) VIN Code "T" 1980-81

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper, Bulk	81-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	81-80	259-203C	.015"; Carton of 100
16	Spring Insert	81-80	259-203B	.030"; Carton of 100
16	Spring Insert	81-80	259-203BRS	.030"; Carton of 500
16	Spring Insert	81-80	259-203A	.060"; Carton of 100
16	Spring Insert	81-80	259-203ARS	.060"; Carton of 500
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	81-80	5092M Std-10-20	
1	Rod Set	81-80	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	81-80	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	81-80	1220M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	81-80	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen
1	Inter. Shaft	81-80	224-61236	
1	Screen Assy.	81-80	224-11236	3/4" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	81-80	260-1122	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	81-80	381-8039	
1	Steel Block Plug Kit	81-80	381-4028	

## 71 4.9L 302 OHV V8 (Chevrolet), 4" Bore 1969-67

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Chain	69-67	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	69-67	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	69-67	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	69-67	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Performance Cam	69-67	CS-118R	Camaro; w/Mech. lifters & Spec. Hi-Perf.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 254 Int., 254 Exh.; Valve lift .4850" Int., .4850" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	69-67	CS-1179R	Camaro; w/Mech. lifters; Pro-4000 Perf. Cam; Mech.; Duration at .050: 257 Int., 270 Exh.; Valve lift .4930" Int., .5120" Exh.; Lobe Separation 112 Degrees
16	Lifter	69-67	AT-992 Std Only	Mech.
16	Lifter, Bulk	69-67	AT-992B Std Only	Mech.; Carton of 128
1	Prelube	69-67	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-67	KC-118R	Camaro; w/Mech. lifters & Spec. Hi-Perf.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 254 Int., 254 Exh.; Valve lift .455" Int., .455" Exh.; Lobe Separation 114 degrees; Incl. (16) AT-992, (1) CS-118R, (1) 55-403B
1	Cam/Lifter Kit	69-67	KC-1179R	Camaro; w/Mech. lifters; Mech.; Pro-4000 Perf. Cam; Duration at .050", 257 Int., 270 Exh.; Valve lift .493" Int., .512" Exh.; Lobe Separation 112 degrees; Overlap 84 degrees; Incl. (16) AT-992, (1) CS-1179R, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	69-67	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	69-67	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	69-67	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	69-67	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	69-67	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	69-67	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	69-67	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	69-67	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	69-67	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-67	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	69-67	R-826A	
16	Pivot Ball	69-67	MR-1783	
16	Pivot Ball	69-67	MR-1822	H/D 4 groove ball
16	Nut	69-67	MR-1751	Self-locking, 3/8" x 24 threads
16	Stud	69-67	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	69-67	MR-1949	3/8" x 24 x 2.495"

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**4.9L 302 OHV V8 (Chevrolet), 4" Bore 1969-67 71**

(cont.)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-67	<b>V-1755</b> Std-15	Chrome plated stem; 1.6000" Head Dia., .3415" Stem Dia., 4.9030" O.A.L.
8	Exhaust, Bulk	69-67	<b>V-1755B15</b> 15	Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3565" Stem Dia., 4.9030" O.A.L.
8	Intake	69-67	<b>V-1756</b> Std-15	Chrome plated stem; 2.0200" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	69-67	<b>V-1756B15</b> 15	Chrome plated stem; Carton of 25; 2.0200" Head Dia., .3565" Stem Dia., 4.8800" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	69-67	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	69-67	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	69-67	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
16	Spring	69-67	<b>VS-739R</b>	Optional-H/D; 2.0000" Free Height
16	Spring, Bulk	69-67	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	69-67	<b>VS-739RB</b>	Optional-H/D; Carton of 300; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	69-67	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	69-67	<b>MV-1903</b>	Use w/VG-5038 repair guide; Positive type; Rubber
16	Valve Stem Seal	69-67	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	69-67	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	69-67	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	69-67	<b>245-1687-2N</b> Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	69-67	<b>245-1687-2</b> Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	69-67	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	69-67	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	69-67	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-67	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-67	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	69-67	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	69-67	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	69-67	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	69-67	<b>259-203ARS</b>	.060"; Carton of 500
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	69-67	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	69-67	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	69-67	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	69-67	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-67	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-67	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-67	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Repair Sleeve	69-67	<b>SL-350M</b> Std Only	3/32" wall, cut to length; Press fit sleeve
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	69-68	<b>4663M</b> Std-1-2-10-20-30-40-60	.020" O/S length flange brg.
1	Main Set	69-68	<b>6688M10</b> 10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set	69-68	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set	69-68	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set	67	<b>994M</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	69-68	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	69-68	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	69-68	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	69-68	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	67	<b>8-2020CP</b> Std-1-10-20-30-40	Unplated & resizeable
1	Rod Set	69-68	<b>8-2555CA60</b> 60	<b>A-Series aluminum bearings</b>
8	Rod Pair	69-68	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	69-68	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	67	<b>2020CP</b> Std-1-2-10-20-30-40-50	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

## 71 4.9L 302 OHV V8 (Chevrolet), 4" Bore 1969-67

(cont.)

		ENGINE BEARINGS					
QTY	(cont.)	YEARS	PART NO.	DESCRIPTION			
8	Rod Pair	69-68	2555CA60 60	Unplated & resizeable			
1	Cam Set	69-68	1811M Std Only	Race Performance; "Big Block"; Split type design, 2.120" housing bore			
1	Cam Set	69-68	1750M Std Only	2.030" housing bore			
1	Cam Set	69-67	1235M Std-1-10	Babbitt material; Full round design			
1	Cam Set	69-67	1749M Std Only	Bi-Metal Aluminum			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Oil Pump	69-67	224-4153S	High volume and pressure, check pan for clearance; Use shaft w/steel guide			
1	Oil Pump	69-67	224-4146A	High Pressure; 5/8" inlet			
1	Oil Pump	69-67	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide			
1	Oil Pump	69-67	224-4146	5/8" inlet			
1	Inter. Shaft	69-67	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide			
1	Inter. Shaft	69-67	224-6146	Use w/nylon shaft guide			
1	Oil Pump Shaft Guide	69-67	224-43343	Nylon			
1	Screen Assy.	69-67	224-1246	5/8" inlet tube			
1	Tool	69-67	MT-J21882	Pump screen installation tool for 5/8" tube			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	69-67	260-1000	Premium Set; Performance head gsckt. incl.; Performance manifold gsckts. incl.; Complete set			
1	Kit Gasket Set	69-67	260-1079				
2	Head Bolt Set	69-67	260-2500				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	69-67	381-8007				
1	Steel Block Plug Kit	69-67	381-4011				
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.		
69-68		Incl. A-Series aluminum bearings	Re-ring	205-630	205-130		
67			Re-ring w/Mains	205-630M	205-130M		
67			Re-ring	205-662	205-162		
67			Re-ring w/Mains	205-662M	205-162M		

## 72 5.0L 303 OHV V8 (Oldsmobile), 3.75" Bore 1953-49

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
16	Push Rod	53-52	RP-3024	9.2850" O.A.L.		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	53-49	ST-2001	Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE		
8	Valve Stem Seal Bulk	53-49	ST-2001BC	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	53-49	VK-115	1 groove; Square cut key groove		
16	Keeper	53-49	VK-115R	1 groove; Square cut key groove; Hardened		
16	Keeper, Bulk	53-49	VK-115B	1 groove; Square cut key groove; Carton of 1000		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
1	Premium Set	53-49	E-240K Std-20-30-40-60	2-5/64, 1-3/16		
1	Standard Set	53-49	E-240X Std-30-40-60	2-5/64, 1-3/16		
8	Premium Single Cylinder Set	53-49	WE-240K Std-20-30-40-60	2-5/64, 1-3/16		
8	Standard Single Cylinder Set	53-49	WE-240X Std-30-40-60	2-5/64, 1-3/16		
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION		
1	Repair Sleeve	53-49	SL-19M Std Only	3/32" wall, must be cut to correct length		

## 73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	3 Piece Set	90-89	KT3-499SA3	Incl. hardened cam sprocket; Incl. (1) 222-499, (1) 223-391, (1) 223-732T		
1	3 Piece Set	88-87	KT3-499S	Exc. rlr. cam; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391		
1	3 Piece Set	88-85	KT3-499SA3	VIN Codes "G" & "H"; w/Fed. Emis.; w/Calif. Emis.; Incl. (1) 222-499, (1) 223-391, (1) 223-732T		
1	3 Piece Set	86-76	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391		
1	Timing Set w/Gaskets	90-89	CTS-1006	Incl. hardened cam sprocket; Oil pan gsckt. not incl.		
1	Timing Set w/Gaskets	85-76	CTS-1000	w/.405" tooth width sprocket		

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**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.) 1976-78, "7" 1982-83

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	90-76	<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	90-76	<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	90-89	<b>223-732T</b>	Hardened; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	88-87	<b>223-390</b>	Exc. Rlr. cam; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	87-76	<b>223-390</b>	.405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	<b>CS-793</b>	VIN Code "E"
1	Camshaft	90	<b>CS-808</b>	VIN Code "F"
1	Camshaft	89	<b>CS-793</b>	VIN Code "F"; w/A/T
1	Camshaft	89	<b>CS-808</b>	VIN Code "F"; w/M/T
1	Camshaft	89	<b>CS-793</b>	VIN Code "H"
1	Camshaft	88	<b>CS-808</b>	VIN Code "F"; w/M/T
1	Camshaft	88	<b>CS-711</b>	VIN Code "H"
1	Camshaft	88	<b>CS-793</b>	VIN Code "H"
1	Camshaft	88	<b>CS-793</b>	VIN Codes "E" & "F"; w/A/T
1	Camshaft	88-87	<b>CS-766</b>	VIN Code "G"
1	Camshaft	87	<b>CS-793</b>	VIN Code "F"; w/A/T; w/Fed. Emis.; w/Calif. Emis.
1	Camshaft	87	<b>CS-808</b>	VIN Code "F"; w/M/T; w/Fed. Emis.; w/Calif. Emis.
1	Camshaft	87	<b>CS-808</b>	VIN Code "F"; Export; w/A/T
1	Camshaft	87	<b>CS-793</b>	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.
1	Camshaft	87	<b>CS-711</b>	VIN Code "H"; Exc. Fed. Emis.; Exc. Calif. Emis.
1	Camshaft	86	<b>CS-711</b>	VIN Codes "F" & "H"; Exc. Export
1	Camshaft	86	<b>CS-766</b>	VIN Codes "G" & "7"
1	Camshaft	85	<b>CS-766</b>	VIN Codes "F", "G" & "7"
1	Camshaft	85-83	<b>CS-711</b>	VIN Code "H"
1	Camshaft	85-83	<b>CS-274</b>	VIN Code "S"
1	Camshaft	84-83	<b>CS-766</b>	VIN Codes "G" & "7"; Monte Carlo & Malibu
1	Camshaft	82	<b>CS-711</b>	VIN Code "H"
1	Camshaft	82	<b>CS-274</b>	VIN Code "7"
1	Camshaft	81-76	<b>CS-711</b>	
1	Performance Cam	80-76	<b>CS-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-76	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-76	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	90-89	<b>HT-2148</b> Std Only	Hyd. rlr.
16	Lifter	88-87	<b>HT-817</b> Std Only	Hyd.
16	Lifter	88-87	<b>HT-2148</b> Std Only	Hyd. rlr.
16	Lifter	86-76	<b>HT-817</b> Std Only	Hyd.
16	Lifter	86-76	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	90-89	<b>HT-2148B</b> Std Only	Hyd. rlr.; Carton of 128
16	Lifter, Bulk	88-87	<b>HT-2148B</b> Std Only	Hyd. rlr.; Carton of 128
16	Lifter, Bulk	88-87	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	86-76	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	86-76	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	90-76	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90	<b>KC-793</b>	VIN Code "E"; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	90	<b>KC-808</b>	VIN Code "F"; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89	<b>KC-793</b>	VIN Code "F"; w/A/T; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89	<b>KC-808</b>	VIN Code "F"; w/M/T; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89	<b>KC-793</b>	VIN Code "H"; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	88	<b>KC-808</b>	VIN Code "F"; w/M/T; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	88	<b>KC-793</b>	VIN Code "H"; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	88	<b>KC-711</b>	VIN Code "H"; Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B

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**VALVE TRAIN**

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# GM Car

**73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76**  
 (cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

VALVE TRAIN

VALVE TRAIN

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	88	<b>KC-793</b>	VIN Codes "E" & "F"; w/A/T; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	88-87	<b>KC-766</b>	VIN Code "G"; Hyd.; Incl. (1) CS-766, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	87	<b>KC-793</b>	VIN Code "F"; w/A/T; w/Fed. Emis.; w/Calif. Emis.; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	87	<b>KC-808</b>	VIN Code "F"; w/M/T; w/Fed. Emis.; w/Calif. Emis.; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	87	<b>KC-808</b>	VIN Code "F"; Export; w/A/T; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	87	<b>KC-793</b>	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; Hyd. rlr.; Incl. (1) CS-793, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	87	<b>KC-711</b>	VIN Code "H"; Exc. Fed. Emis.; Exc. Calif. Emis.; Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	86	<b>KC-711</b>	VIN Codes "F" & "H"; Exc. Export; Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	86	<b>KC-766</b>	VIN Codes "G" & "7"; Hyd.; Incl. (1) CS-766, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-766</b>	VIN Codes "F", "G" & "7"; Hyd.; Incl. (1) CS-766, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	85-83	<b>KC-711</b>	VIN Code "H"; Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	85-83	<b>KC-274</b>	VIN Code "S"; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	84-83	<b>KC-766</b>	VIN Codes "G" & "7"; Monte Carlo & Malibu; Hyd.; Incl. (1) CS-766, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	82	<b>KC-711</b>	VIN Code "H"; Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	82	<b>KC-274</b>	VIN Code "7"; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	81-76	<b>KC-711</b>	Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	88	<b>KCT-711</b>	VIN Code "H"; Exc. rlr. cam; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	88-87	<b>KCT-766A</b>	VIN Code "G"; Exc. rlr. cam; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-766, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	87	<b>KCT-711</b>	VIN Code "H"; Exc. Fed. Emis.; Exc. Calif. Emis.; Exc. rlr. cam; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86	<b>KCT-711</b>	VIN Codes "F" & "H"; Exc. Export; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86	<b>KCT-766A</b>	VIN Codes "G" & "7"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-766, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	<b>KCT-766A</b>	VIN Codes "F", "G" & "7"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-766, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	85-83	<b>KCT-711</b>	VIN Code "H"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	85-83	<b>KCT-274</b>	VIN Code "S"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-83	<b>KCT-766A</b>	VIN Codes "G" & "7"; Monte Carlo & Malibu; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-766, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	82	<b>KCT-711</b>	VIN Code "H"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	82	<b>KCT-274</b>	VIN Code "7"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-76	<b>KCT-711</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B

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**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.) 1976-78, "7" 1982-83

<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	90-87	<b>RP-3262</b>	7.1920" O.A.L.
16	Push Rod	86-76	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	86-76	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	86-76	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	86-76	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	86-76	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	90-87	<b>BRP-3262</b>	Carton of 100; 7.1920" O.A.L.
16	Push Rod, Bulk	86-76	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	86-76	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	86-76	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	90-82	<b>R-973</b>	Incl. arm, ball & nut
16	Arm Assy.	81-76	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	90-82	<b>R-973B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	81-76	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	90-82	<b>R-973A</b>	
16	Arm	81-76	<b>R-826A</b>	
16	Pivot Ball	90-76	<b>MR-1783</b>	
16	Pivot Ball	90-76	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	90-76	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	90-76	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	90-76	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	90-76	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	90-76	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Intake	90-80	<b>V-2143</b> Std-3-5-15	Chrome plated stem; 1.8390" Head Dia., .3410" Stem Dia., 4.9120" O.A.L.
8	Intake	79	<b>V-2143</b> Std-3-5-15	VIN Code "H"; Chrome plated stem; 1.8390" Head Dia., .3410" Stem Dia., 4.9120" O.A.L.
8	Intake	79	<b>V-1927</b> Std-15	VIN Code "U"; Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	78-76	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	90-80	<b>V-2143B</b> Std-15	Chrome plated stem; Carton of 25; 1.8400" Head Dia., .3413" Stem Dia., 4.9120" O.A.L.
8	Intake, Bulk	79	<b>V-2143B</b> Std-15	VIN Code "H"; Chrome plated stem; Carton of 25; 1.8400" Head Dia., .3413" Stem Dia., 4.9120" O.A.L.
8	Intake, Bulk	79	<b>V-1927B</b> Std-15	VIN Code "U"; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	78-76	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	90-76	<b>VG-5005</b>	Exh.; .3430" ID, 2.2500" O.A.L.
8	Guide	90-76	<b>VG-5005H</b>	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	90-76	<b>VG-5005T</b>	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide	90-76	<b>VG-5131T</b>	Exh. & Int.; Universal; .4380" ID, 3.2500" O.A.L.
8	Guide	90-76	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	90-76	<b>VG-5005B</b>	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-76	<b>VG-5005TB</b>	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-76	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	90-78	<b>VS-677</b>	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	90-78	<b>VS-739R</b>	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring	77-76	<b>VS-727</b>	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	77-76	<b>VS-677</b>	Int.; Incl. damper; 2.0300" Free Height
16	Spring, Bulk	90-78	<b>VS-677B</b>	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	90-78	<b>VS-739RB</b>	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
8	Spring, Bulk	77-76	<b>VS-727B</b>	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	77-76	<b>VS-677B</b>	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	90-76	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	90-76	<b>ST-2092</b>	Positive type; Rubber
16	Valve Stem Seal	90-76	<b>MV-1903</b>	Use w/VG-5038 repair guide; Positive type; Rubber
8	Valve Stem Seal	90-81	<b>MV-1888C</b>	Int.; O.E. design; Positive type; Viton®
1	Valve Stem Seal	90-76	<b>MV-1233C</b>	O-Ring; Rubber

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

**73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76**  
 (cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-76	<b>MV-1598C</b>	Umbrella type; Rubber
8	Valve Stem Seal Bulk	90-81	<b>MV-1888</b>	Int.; O.E. design; Positive type; Carton of 50; Viton®
1	Valve Stem Seal Bulk	90-76	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-76	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-76	<b>MV-1598</b>	Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	90-80	<b>245-1937-1</b> Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
8	Exh.	90-76	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-76	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	79	<b>245-1937-1</b> Std Only	VIN Code "H"; 1.9425" OD, 1.6875" ID, .2480" Depth
8	Int.	79	<b>245-1812-3</b> Std Only	VIN Code "U"; 1.8175" OD, 1.5000" ID, .2160" Depth
8	Int.	78-76	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
8	Int.	78-76	<b>245-1937-1</b> Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-76	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-76	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-76	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-76	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	90-76	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	90-76	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	90-76	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	90-76	<b>259-203ARS</b>	.060"; Carton of 500
8	Rotocap	90-76	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90	<b>536NCP20</b> 20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	90	<b>536NP</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston	89-88	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	89-88	<b>536NCP20</b> 20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	89-88	<b>536NP</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston	89-88	<b>H534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	87	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	87	<b>536NCP20</b> 20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	87	<b>536NP</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston	87	<b>454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston	87	<b>H534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	86-82	<b>534NP</b> Std-20-30-40-60	w/Fed. Emis.; w/Calif. Emis.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	86-82	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	86-82	<b>454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.

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**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.) 1976-78, "7" 1982-83

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	86-82	<b>H534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	81-76	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	81-76	<b>454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston	81-76	<b>H534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	90	<b>W536NP</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston - Individual	89-88	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	89-88	<b>W536NP</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston - Individual	89-88	<b>WH534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	87	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	87	<b>W536NP</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston - Individual	87	<b>W454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	87	<b>WH534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	86-82	<b>W534NP</b> Std-20-30-40-60	w/Fed. Emis.; w/Calif. Emis.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	86-82	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	86-82	<b>W454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	86-82	<b>WH534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	81-76	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	81-76	<b>W454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	81-76	<b>WH534CP</b> Std-20-30-40-60	Perf. or reg. duty operation; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Prem. Rings	90	<b>8K536NCP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89-88	<b>8K536NCP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89-88	<b>8KH534CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Prem. Rings	87	<b>8K454NP30</b> 30-40-60	Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	87	<b>8K536NCP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>

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# GM Car

**73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76**  
 (cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	87	<b>8KH534CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Prem. Rings	86-82	<b>8K454NP30</b> 30-40-60	Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	86-82	<b>8KH534CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Prem. Rings	81-76	<b>8K454NP30</b> 30-40-60	Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	81-76	<b>8KH534CP30</b> 30-40-60	Perf. or reg. duty operation; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Econ. Rings	90	<b>8X536NP20</b> 20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
1	Cast Piston Set w/Econ. Rings	89-88	<b>8X536NP20</b> 20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
1	Cast Piston Set w/Econ. Rings	87	<b>8X536NP20</b> 20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
1	Cast Piston Set w/Econ. Rings	87	<b>8X454NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings	86-82	<b>8X534NP30</b> 30-40	w/Fed. Emis.; w/Calif. Emis.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	86-82	<b>8X454NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings	81-76	<b>8X454NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Powerforged	87	<b>L-2486F30</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	86-85	<b>L-2486F30</b> Std-30-40	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	86-85	<b>L-2486F30</b> Std-30-40	VIN Codes "F" & "G"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	83-82	<b>L-2486F30</b> Std-30-40	VIN Codes "S" & "7"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	87	<b>WL-2486F</b> Std-30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	86-85	<b>WL-2486F</b> Std-30	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	86-85	<b>WL-2486F</b> Std-30	VIN Codes "F" & "G"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	83-82	<b>WL-2486F</b> Std-30	VIN Codes "S" & "7"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin	90-76	<b>P-2208</b> Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-76	<b>E-356K</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-76	<b>E-356KC</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Standard Set	90-76	<b>E-356X</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-76	<b>WE-356K</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-76	<b>WE-356X</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-76	<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set	90-76	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-76	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	90-76	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings; .010" O/S length flange brg.</b>
1	Main Set	90-76	<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings; w/.020" O/S OD</b>
1	Rod Set	90-76	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-76	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>

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**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.) 1976-78, "7" 1982-83

QTY	ENGINE BEARINGS				DESCRIPTION	
	(cont.)	YEARS	PART NO.			
1	Rod Set	90-76	<b>8-2555CP10X2</b>	10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
1	Rod Set	90-76	<b>8-2555CP</b>	Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
1	Rod Set	90-76	<b>8-2555CA60</b>	60	Unplated & resizeable	
8	Rod Pair	90-76	<b>2555A</b>	Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
8	Rod Pair	90-76	<b>2555CP</b>	Std-1-2-10-20-30-40-50	Overplated copper-lead alloy	
8	Rod Pair	90-76	<b>2555CA60</b>	60	Unplated & resizeable	
1	Cam Set	90-76	<b>1235M</b>	Std-1-10	Babbitt material; Full round design	
1	Cam Set	90-76	<b>1749M</b>	Std Only	Bi-Metal Aluminum	
1	Cam Set	90-76	<b>1811M</b>	Std Only	Race Performance; "Big Block"; Split type design, 2.120" housing bore	
1	Cam Set	90-76	<b>1750M</b>	Std Only	2.030" housing bore	
QTY	OIL PUMP	YEARS	PART NO.		DESCRIPTION	
1	Oil Pump	90	<b>224-43469V</b>		High Volume, check pan for clearance; 3/4" inlet; Use w/steel guide	
1	Oil Pump	90-76	<b>224-4146A</b>		High Pressure; 5/8" inlet	
1	Oil Pump	90-76	<b>224-4143</b>		High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
1	Oil Pump	90-76	<b>224-4146</b>		5/8" inlet	
1	Inter. Shaft	90-76	<b>224-6146E</b>		Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	90-76	<b>224-6146</b>		Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	90-76	<b>224-43343</b>		Nylon	
1	Screen Assy.	90	<b>224-1246</b>		5/8" inlet tube	
1	Screen Assy.	80	<b>224-14227</b>		Corvette; 5/8" inlet tube	
1	Screen Assy.	80	<b>224-1246</b>		Exc. Corvette; 5/8" inlet tube	
1	Screen Assy.	79-76	<b>224-1246</b>		5/8" inlet tube	
1	Tool	90-76	<b>MT-J21882</b>		Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.		DESCRIPTION	
1	Kit Gasket Set	90-87	<b>260-1246</b>		Exc. VIN Code "F"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	90-87	<b>260-1247</b>		VIN Code "F"; w/TPI; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86	<b>260-1245</b>		VIN Code "F"; w/TPI; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86	<b>260-1243</b>		VIN Codes "G" & "H"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	85	<b>260-1244</b>		VIN Code "F"; w/TPI; Premium valve stem seals incl.	
1	Kit Gasket Set	85-84	<b>260-1024</b>		VIN Codes "G" & "H"; Premium valve stem seals incl.	
1	Kit Gasket Set	83-82	<b>260-1024</b>		VIN Codes "F" & "H"; Premium valve stem seals incl.	
1	Kit Gasket Set	81	<b>260-1024</b>		Premium valve stem seals incl.	
1	Kit Gasket Set	80	<b>260-1023</b>			
1	Kit Gasket Set	79-76	<b>260-1023</b>			
2	Head Bolt Set	90-76	<b>260-2500</b>			
QTY	FREEZE PLUGS	YEARS	PART NO.		DESCRIPTION	
1	Brass Block Plug Kit	90-86	<b>381-8059</b>			
1	Brass Block Plug Kit	85-76	<b>381-8007</b>			
1	Steel Block Plug Kit	90-76	<b>381-4011</b>			
RE-RING KIT					PREMIUM	ECONOMY
YEARS	DESCRIPTION				KIT NO.	KIT NO.
90-87	Exc. VIN Code "F"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6026</b>	<b>205-1026</b>	
		Re-ring w/Mains		<b>205-6026M</b>	<b>205-1026M</b>	
90-87	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6027</b>	<b>205-1027</b>	
		Re-ring w/Mains		<b>205-6027M</b>	<b>205-1027M</b>	
86	VIN Codes "G" & "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6024</b>	<b>205-1024</b>	
		Re-ring w/Mains		<b>205-6024M</b>	----	
86	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6025</b>	----	
		Re-ring w/Mains		<b>205-6025M</b>	----	

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**73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76**  
 (cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U"  
 1976-78, "7" 1982-83

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
86	VIN Codes "G" & "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	----	205-1270M
86	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	----	205-1271 205-1271M
85	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6023 205-6023M	----
85	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	----	205-1269 205-1269M
85	VIN Codes "G" & "H"; w/4 Bbl. Carb.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6286 205-6286M	205-1286 205-1286M
84	VIN Codes "F", "G" & "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6286 205-6286M	205-1286 205-1286M
83-82	VIN Codes "F" & "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6286 205-6286M	205-1286 205-1286M
81	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6286 205-6286M	205-1286 205-1286M
80	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6285 205-6285M	205-1285 205-1285M
79-76	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6285 205-6285M	205-1285 205-1285M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Code "E"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6026C MK-6026C	MKP-1026C ----
90	VIN Code "E"; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6026C	505-1026C
90	VIN Code "E"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Pistons	----	MK-1026G
90	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6027C MK-6027C	MKP-1027C MK-1027C
90	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6027C	505-1027C
90-87	Exc. VIN Code "F"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 536NP piston	Block w/Pump & Freeze Plugs	BKP-6072	----
90-87	Exc. VIN Code "F"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 536NP piston	Block	BK-6072	----
90-87	VIN Code "F"; w/TPI; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block	BK-6078	----
90-87	VIN Code "F"; w/TPI; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	BKP-6078	----

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5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 **73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.)  
1976-78, "7" 1982-83

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
89	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6026C MK-6026C	MKP-1026C ----
89	VIN Code "H"; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6026C	505-1026C
89	VIN Code "F"; w/A/T; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6027A MK-6027A	MKP-1027A MK-1027A
89	VIN Code "F"; w/A/T; w/TPI; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6027A	505-1027A
89	VIN Code "F"; w/M/T; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6027C MK-6027C	MKP-1027C MK-1027C
89	VIN Code "F"; w/M/T; w/TPI; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6027C	505-1027C
88	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons	MKP-6026C MK-6026C	MKP-1026C ----
88	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains	505-6026C	505-1026C
88	VIN Code "H"; Exc. rlr. cam; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-6026E MK-6026E	MKP-1026E MK-1026E
88	VIN Code "H"; Exc. rlr. cam; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6026E	505-1026E
88-87	VIN Code "G"; Exc. rlr. cam; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-6026A MK-6026A	MKP-1026A MK-1026A
88-87	VIN Code "G"; Exc. rlr. cam; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6026A	505-1026A
87	VIN Code "H"; Exc. Fed. Emis.; Exc. Calif. Emis.; Exc. rlr. cam; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-6026E MK-6026E	MKP-1026E MK-1026E
87	VIN Code "H"; Exc. Fed. Emis.; Exc. Calif. Emis.; Exc. rlr. cam; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6026E	505-1026E

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# GM Car

## 73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76

(cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

YEARS	OVERHAUL KIT (cont.)		PREMIUM	ECONOMY
	DESCRIPTION		KIT NO.	KIT NO.
86	VIN Code "G"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6024C	MK-1024C
86	VIN Code "G"; w/.200" deep oil ring groove; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6024C	----
86	VIN Code "G"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6024C	MKP-1024C
86	VIN Code "G"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6024C	505-1024C
86	VIN Codes "F" & "H"; Exc. Export; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6024D	----
86	VIN Codes "G" & "H"; Exc. Export; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6024D	MK-1024D
86	VIN Codes "G" & "H"; Exc. Export; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6024D	MKP-1024D
86	VIN Codes "G" & "H"; Exc. Export; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6024D	505-1024D
85	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6023A	MK-1023A
85	VIN Code "F"; w/TPI; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6023A	----
85	VIN Code "F"; w/TPI; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master w/o Rods & Mains	505-6023A	505-1023A
85	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
85	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
85	VIN Code "H"; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
85	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----

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5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 **73**

VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" (cont.) 1976-78, "7" 1982-83

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
85	VIN Code "H"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
85	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master	MKP-648D	MKP-148D
85	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master w/o Rods & Mains	505-648D	505-148D
85	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings	MKF-648D	----
84	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
84	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
84	VIN Code "H"; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
84	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
84	VIN Code "H"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
84	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master	MKP-648D	MKP-148D
84	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master w/o Rods & Mains	505-648D	505-148D
83	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
83	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
83	VIN Code "H"; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
83	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
83	VIN Code "H"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
83	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master	MKP-648D	MKP-148D

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# GM Car

## 73 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 (cont.) VIN Codes "E" 1988-93, "F" 1985-92, "G" 1979 & 1984-88, "H" 1978-88, "Q" 1976, "S" 1983, "U" 1976-78, "7" 1982-83

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
83	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master w/o Rods & Mains	505-648D	505-148D
82	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
82	VIN Code "H"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
82	VIN Code "H"; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
82	VIN Code "H"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
82	VIN Code "H"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
82	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master	MKP-648D	MKP-148D
82	VIN Code "H"; w/Fed. Emis.; w/Calif. Emis.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 534NP piston	Master w/o Rods & Mains	505-648D	505-148D
81	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
81	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
81	w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
81	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
81	Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----

## 74 5.0L 307 OHV V8 (Oldsmobile), 3.8" Bore 1990-80 VIN Codes "Y" 1980-90, "9" 1983-90

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-80	KT3-498SA3	Incl. (1) 222-498, (1) 223-348, (1) 223-349
1	Timing Set w/Gaskets	90-80	CTS-1005	
1	Timing Chain	90-80	222-498	48 Links
1	Crank Sprocket	90-80	223-349	18 Teeth
1	Cam Sprocket	90-80	223-348	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-86	CS-850	VIN Code "9"
1	Camshaft	90-85	CS-758	VIN Code "Y"; w/r/r. cam
1	Camshaft	85	CS-651	VIN Code "9"; w/HO; Non-r/r. cam
1	Camshaft	84-83	CS-651	VIN Code "9"; w/HO
1	Camshaft	84-80	CS-707	VIN Code "Y"
16	Lifter	90-85	HT-2104 Std Only	Hyd. r/r.
16	Lifter	85-80	HT-951 Std Only	Hyd.
16	Lifter, Bulk	90-85	HT-2104B Std Only	Hyd. r/r.; Carton of 113
16	Lifter, Bulk	85-80	HT-951B Std Only	Hyd.; Carton of 128

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**5.0L 307 OHV V8 (Oldsmobile), 3.8" Bore 1990-80 74**

VIN Codes "Y" 1980-90, "9" 1983-90 (cont.)

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	(cont.) Prelube	90-80	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90-86	<b>KC-758</b>	VIN Code "Y"; w/r/r. cam; Hyd. rlr.; Incl. (1) CS-758, (16) HT-2104, (1) 55-403B
1	Cam/Lifter Kit	90-86	<b>KC-850</b>	VIN Code "9"; Hyd. rlr.; Incl. (1) CS-850, (16) HT-2104, (1) 55-403B
1	Cam/Lifter Kit	85	<b>KC-758</b>	VIN Code "Y"; w/r/r. cam; Hyd. rlr.; Incl. (1) CS-758, (16) HT-2104, (1) 55-403B
1	Cam/Lifter Kit	84-80	<b>KC-707</b>	VIN Code "Y"; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	85	<b>KCT-651</b>	VIN Code "9"; w/HO; Non-rlr. cam; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-83	<b>KCT-707</b>	VIN Code "Y"; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-83	<b>KCT-651</b>	VIN Code "9"; w/HO; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-80	<b>KCT-707</b>	VIN Code "Y"; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	90-85	<b>RP-3244</b>	w/r/r. lifters; 7.7000" O.A.L.
16	Push Rod	85-80	<b>RP-3205</b>	w/o rlr. lifters; 8.2480" O.A.L.
16	Push Rod, Bulk	90-85	<b>BRP-3244</b>	w/r/r. lifters; Carton of 100; 7.7000" O.A.L.
16	Push Rod, Bulk	85-80	<b>BRP-3205</b>	w/o rlr. lifters; Carton of 100; 8.2480" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	90-80	<b>R-882</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge
8	Arm Assy., Bulk	90-80	<b>R-882B</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32
16	Arm	90-80	<b>R-882A</b>	
16	Arm, Bulk	90-80	<b>R-882AB</b>	Carton of 64
8	Pivot	90-80	<b>MR-1903</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	90-80	<b>V-2061</b> Std-15	Exc. VIN Code "9"; Chrome plated stem; 1.5020" Head Dia., .3423" Stem Dia., 4.6880" O.A.L.
8	Exhaust, Bulk	90-80	<b>V-2061B15</b> 15	Exc. VIN Code "9"; Chrome plated stem; Carton of 25; 1.5020" Head Dia., .3573" Stem Dia., 4.6880" O.A.L.
8	Intake	90-80	<b>V-2196</b> Std-15	1.7500" Head Dia., .3428" Stem Dia., 4.6670" O.A.L.
8	Intake, Bulk	90-80	<b>V-2196B15</b> 15	Carton of 25; 1.7500" Head Dia., .3578" Stem Dia., 4.6670" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	90-80	<b>VG-5038</b>	Exh. & Int.; .3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	90-80	<b>VG-5038B</b>	Exh. & Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	90-80	<b>VS-721</b>	Exc. VIN Code "9"; 1.9600" Free Height
16	Spring, Bulk	90-80	<b>VS-721B</b>	Exc. VIN Code "9"; Carton of 250; 1.9600" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90-80	<b>MV-1819C</b>	Int.; Umbrella type; Nylon
8	Valve Stem Seal Bulk	90-80	<b>MV-1819</b>	Int.; Umbrella type; Carton of 50; Nylon
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	90-80	<b>245-1562-1N</b> Std Only	Exc. VIN Code "9"; Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-80	<b>245-1562-1</b> Std Only	Exc. VIN Code "9"; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	90-80	<b>245-1875-2</b> Std Only	1.8800" OD, 1.5625" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	90-80	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-80	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-80	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-80	<b>259-303C</b>	.015"; ID .703"; Carton of 100
16	Spring Insert	90-80	<b>259-303B</b>	.030"; ID .703"; Carton of 100
16	Spring Insert	90-80	<b>259-303A</b>	.060"; ID .703"; Carton of 100
16	Spring Insert	90-80	<b>259-303ARS</b>	.060"; ID .703"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	90-85	<b>H801CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head "D" shaped dish .250" deep - 8.0:1 C.R.; Improved design, non-strutted; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	84-80	<b>472NP *</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .127" deep x 2.660" dia. - 7.9:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

## 74 5.0L 307 OHV V8 (Oldsmobile), 3.8" Bore 1990-80

(cont.) VIN Codes "Y" 1980-90, "9" 1983-90

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston	84-80	<b>472P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .127" deep x 2.660" dia. - 7.9:1 C.R.; When depleted use 472NP	
8	Cast Piston - Individual	90-85	<b>WH801CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head "D" shaped dish .250" deep - 8.0:1 C.R.; Improved design, non-strutted; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>	
8	Cast Piston - Individual	84-80	<b>W472NP *</b> Std-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .127" deep x 2.660" dia. - 7.9:1 C.R.	
8	Cast Piston - Individual	84-80	<b>W472P +</b> Std-30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .127" deep x 2.660" dia. - 7.9:1 C.R.; When depleted use W472NP	
8	Pin Bushing	87-80	<b>3049YA20</b>		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-80	<b>E-288K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Premium Set	90-80	<b>E-288KC20</b> 20-40	2-5/64, 1-3/16	
1	Standard Set	90-80	<b>E-288X</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	90-80	<b>WE-288K</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	90-80	<b>WE-288X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-80	<b>4281M</b> Std-1-10-20-30-40	3.824" max. flange OD	
1	Rod Set	90-80	<b>8-3045A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Rod Set	90-80	<b>8-3045A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore	
1	Rod Set	90-80	<b>8-3045APA</b> Std-1	Overplated alum. alloy	
1	Rod Set	90-80	<b>8-3045APA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy	
8	Rod Pair	90-80	<b>3045A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
8	Rod Pair	90-80	<b>3045APA</b> Std Only	Overplated alum. alloy	
1	Cam Set	90-80	<b>1466M</b> Std Only	Full round design	
1	Cam Set	90-80	<b>1787M</b> Std Only	O.E. split type design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-86	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen	
1	Oil Pump	90-80	<b>224-41203</b>		
1	Inter. Shaft	90-80	<b>224-61203</b>		
1	Screen Assy.	90-80	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	90-80	<b>224-11203</b>	Exc. Riviera & Toronado; 5/8" inlet tube	
1	Screen Assy.	90-80	<b>224-12203</b>	Riviera & Toronado; Press-in tube	
1	Tool	90-80	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-85	<b>260-1477</b>	Int. manifold gskt. not incl.; Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	84-80	<b>260-1124</b>	Premium valve stem seals incl.; Int. manifold gskt. not incl.	
1	Valley Pan Gasket Set	90-85	<b>260-4017</b>		
1	Valley Pan Gasket Set	84-80	<b>260-4001</b>		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-80	<b>381-8020</b>		
1	Steel Block Plug Kit	90-80	<b>381-4020</b>		
RE-RING KIT				<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>
90-85	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring w/Mains		<b>205-6148M</b>	<b>205-1148M</b>
90-85	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring		<b>205-6148</b>	<b>205-1148</b>
84-80	Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.; Int. manifold gskt. not incl.	Re-ring w/Mains		<b>205-6308M</b>	<b>205-1308M</b>
84-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Int. manifold gskt. not incl.	Re-ring		<b>205-6308</b>	<b>205-1308</b>
OVERHAUL KIT				<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>
90-86	VIN Code "9"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master Master w/o Pistons		<b>MKP-6148D</b> <b>MK-6148D</b>	<b>MKP-1148D</b> <b>MK-1148D</b>

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VIN Codes "Y" 1980-90, "9" 1983-90 (cont.)

<b>K I T S</b>	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>	
	90-86	VIN Code "9"; Int. manifold gskt. not incl.; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains <b>505-6148D</b>	<b>505-1148D</b>	
	90-85	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs <b>BKP-6079</b>	----	
	90-85	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD	Block <b>BK-6079</b>	----	
	90-85	VIN Code "Y"; w/r/r. cam; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master Master w/o Pistons <b>MKP-6148A</b> <b>MK-6148A</b>	<b>MKP-1148A</b> <b>MK-1148A</b>	
	90-85	VIN Code "Y"; w/r/r. cam; Int. manifold gskt. not incl.; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains <b>505-6148A</b>	<b>505-1148A</b>	
	84-80	VIN Code "Y"; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master Master w/o Pistons <b>MKP-633A</b> <b>MK-633A</b>	<b>MKP-133A</b> <b>MK-133A</b>	
	84-80	VIN Code "Y"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains <b>505-633A</b>	<b>505-133A</b>	

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VIN Code "F" 1972-73

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
		1	3 Piece Set	73-68	<b>KT3-499S</b>	
	1	Timing Chain	73-68	<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links	
	1	Crank Sprocket	73-68	<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth	
	1	Cam Sprocket	73-68	<b>223-390</b>	.405" tooth width sprocket; 36 Teeth	
	1	Cam Sprocket	73-68	<b>223-390N</b>	Nylon; .405" tooth width sprocket; 36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	73-68	<b>CS-274</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	73-68	<b>CS-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	73-68	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees	
	16	Lifter	73-68	<b>HT-817</b> Std Only	Hyd.	
	16	Lifter	73-68	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.	
	16	Lifter, Bulk	73-68	<b>HT-817B</b> Std Only	Hyd.; Carton of 128	
	16	Lifter, Bulk	73-68	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128	
	1	Prelube	73-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	73-68	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	73-68	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B	
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Push Rod	73-68	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.	
	16	Push Rod	73-68	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.	
	16	Push Rod	73-68	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.	

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(cont.) VIN Code "F" 1972-73

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod	73-68	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	73-68	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	73-68	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	73-68	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	73-68	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	73-68	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	73-68	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	73-68	R-826A	
16	Pivot Ball	73-68	MR-1783	
16	Pivot Ball	73-68	MR-1822	H/D 4 groove ball
16	Nut	73-68	MR-1751	Self-locking, 3/8" x 24 threads
16	Stud	73-68	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	73-68	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	73-71	V-1904	Std-3-15-30 Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	73-68	V-1888X	Std-15 Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	70-68	V-1199	Std-3-5-15-30 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	73-71	V-1904B	Std-15 Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	70-68	V-1199B	Std-15 Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	73-72	V-1927	Std-15 Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	71-68	V-1200	Std-3-15-30 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	73-72	V-1927B	Std-15 Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	71-68	V-1200B	Std Only Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	73	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	73	VS-677	Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-68	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-68	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring, Bulk	73	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	73	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-68	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-68	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	73-68	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	73-68	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	73-68	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	73-68	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	73-68	245-1562-2N	Std Only Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	73-68	245-1562-2	Std Only 1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	73-68	245-1812-3	Std Only 1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	73-68	VK-115	1 groove; Square cut key groove
32	Keeper	73-68	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	73-68	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	73-68	259-203C	.015"; Carton of 100
16	Spring Insert	73-68	259-203B	.030"; Carton of 100
16	Spring Insert	73-68	259-203BRS	.030"; Carton of 500
16	Spring Insert	73-68	259-203A	.060"; Carton of 100
16	Spring Insert	73-68	259-203ARS	.060"; Carton of 500
8	Rotocap	73-68	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	73-68	295P *	Std-20-30-40-60 Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	73-68	295AP +	Std-20-30-40-60 Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 295P
8	Cast Piston - Individual	73-68	W295P *	Std Only Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs

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VIN Code "F" 1972-73 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston - Individual	73-68	<b>W295AP</b> + Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W295P	
8	Pin	73-68	<b>P-2208</b> Std-3-5-0015		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	73-68	<b>E-245K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	73-68	<b>E-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	73-68	<b>WE-245K</b> Std-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	73-68	<b>WE-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	73-68	<b>4663M</b> Std-1-2-10-20-30-40-60		
1	Main Set	73-68	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.	
1	Main Set	73-68	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
1	Main Set	73-68	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.	
1	Rod Set	73-68	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	73-68	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore	
1	Rod Set	73-68	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
1	Rod Set	73-68	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
1	Rod Set	73-68	<b>8-2555CA60</b> 60	Unplated & resizeable	
8	Rod Pair	73-68	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
8	Rod Pair	73-68	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy	
8	Rod Pair	73-68	<b>2555CA60</b> 60	Unplated & resizeable	
1	Cam Set	73-68	<b>1235M</b> Std-1-10	Babbitt material; Full round design	
1	Cam Set	73-68	<b>1749M</b> Std Only	Bi-Metal Aluminum	
1	Cam Set	73-68	<b>1750M</b> Std Only	2.030" housing bore	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	73-68	<b>224-4146A</b>	High Pressure; 5/8" inlet	
1	Oil Pump	73-68	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
1	Oil Pump	73-68	<b>224-4146</b>	5/8" inlet	
1	Inter. Shaft	73-68	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	73-68	<b>224-6146</b>	Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	73-68	<b>224-43343</b>	Nylon	
1	Screen Assy.	73-68	<b>224-1246</b>	5/8" inlet tube	
1	Tool	73-68	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	73-68	<b>260-1000</b>		
1	Kit Gasket Set	73-68	<b>260-1079</b>	Premium Set; Performance head gskt. incl.; Performance manifold gskts. incl.; Complete set	
2	Head Bolt Set	73-68	<b>260-2500</b>		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	73-68	<b>381-8007</b>		
1	Steel Block Plug Kit	73-68	<b>381-4011</b>		
KITS	RE-RING KIT			<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
	YEARS	DESCRIPTION			
	73-68	Incl. <b>A-Series aluminum bearings</b>	Re-ring	<b>205-6283</b>	<b>205-1283</b>
			Re-ring w/Mains	<b>205-6283M</b>	<b>205-1283M</b>
KITS	OVERHAUL KIT			<i>PREMIUM KIT NO.</i>	<i>ECONOMY KIT NO.</i>
	YEARS	DESCRIPTION			
	73-68	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-620A</b>	<b>505-120A</b>
73-68	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-620B</b>	<b>MKP-120B</b>	
		Master w/o Pistons	<b>MK-620B</b>	<b>MK-120B</b>	
5.2L 316 OHV V8 (Pontiac), 3.9375" Bore 1956 76					
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
16	Lifter	56	<b>HT-951</b> Std Only	Hyd.	
16	Lifter, Bulk	56	<b>HT-951B</b> Std Only	Hyd.; Carton of 128	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	56	<b>RP-3229R</b>	Chrome-Moly; 9.1300" O.A.L.	
16	Push Rod	56	<b>RP-3028</b>	9.1360" O.A.L.	
16	Push Rod, Bulk	56	<b>BRP-3028</b>	Carton of 100; 9.1360" O.A.L.	

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## 76 5.2L 316 OHV V8 (Pontiac), 3.9375" Bore 1956

(cont.)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	56	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	56	VG-5037	Int.; .3420" ID, 2.7500" O.A.L.
8	Guide	56	VG-5072	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.
8	Guide, Bulk	56	VG-5072B	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	56	VS-445	Inner; 1.8120" Free Height
16	Spring	56	VS-446	Outer; 1.9800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	56	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	56	ST-2092	Positive type; Rubber
8	Valve Stem Seal	56	MV-1233C	Int.; O-Ring; Rubber
16	Valve Stem Seal Bulk	56	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
8	Valve Stem Seal Bulk	56	MV-1233	Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	56	VK-115	1 groove; Square cut key groove
32	Keeper	56	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	56	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	56	E-252X Std-30	2-5/64, 1-3/16

## 77 5.3L 322 OHV V8 (Buick), 4" Bore 1956-53

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	56-53	222-491	52 Links
1	Crank Sprocket	56-53	223-276	19 Teeth
1	Cam Sprocket	56-53	223-332N	Nylon; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	56	HT-896 Std Only	Hyd.
16	Lifter, Bulk	56	HT-896B Std Only	Hyd.; Carton of 126
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	56-53	RP-3010	8.2500" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	56-53	VG-628	Exh.; .3745" ID, 2.7500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	56-53	VS-527	Inner; 2.0100" Free Height
16	Spring	56-53	VS-612	Outer; 2.0700" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	56-53	ST-2014	Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal Bulk	56-53	ST-2014BC	Positive type; Installation requires valve guide machining; Carton of 100; PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	56-53	VK-97	

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	56-53	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	56-53	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	56-53	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	56-53	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	56-53	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	56-53	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	56-53	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	56-53	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"

## 78 5.3L 324 OHV V8 (Oldsmobile), 3.875" Bore 1956-54

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	56-55	222-494	1/2" pitch; 48 Links
1	Timing Chain	56-54	222-368	3/8" pitch; 11 links wide; 64 Links
1	Timing Chain	54	222-494	From Eng. No. 8A-285505; 1/2" pitch; 48 Links
1	Cam Sprocket	56-55	223-245	1/2" pitch; 48 Teeth
1	Cam Sprocket	54	223-245	From Eng. No. 8A-285505; 1/2" pitch; 48 Teeth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	56-54	VG-584	Exh.; .3973" ID, 2.3800" O.A.L.
8	Guide	56-54	VG-538	Int.; .3450" ID, 2.3750" O.A.L.

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**5.3L 324 OHV V8 (Oldsmobile), 3.875" Bore 1956-54 78**

(cont.)

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	56	VS-526	O.E. valve spring cup No. 572861; 2.2500" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	56-54	VK-115	1 groove; Square cut key groove
32	Keeper	56-54	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	56-54	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	56-54	E-245K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	56-54	E-245X Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	56-54	WE-245K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	56-54	WE-245X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	56-54	SL-20Y Std Only	1/8" wall, must be cut to correct length

**5.3L 326 OHV V8 (Pontiac), 3.7188" Bore 1967-63 79**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-63	KT3-350S	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	67-63	222-350	60 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	67-63	CS-187	Hyd.
16	Lifter	67-63	HT-951 Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	67-63	HT-951B Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	67-63	55-400	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	67-63	KC-187	Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67-63	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
16	Push Rod	67-63	RP-3164	8.6930" O.A.L.
16	Push Rod	67-63	RP-316435	8.7280" O.A.L.
16	Push Rod	67-63	RP-316460	8.7530" O.A.L.
16	Push Rod, Bulk	67-63	BRP-3164	Carton of 100; 8.6930" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	67-65	R-848	Incl. arm & ball
16	Arm	67-65	R-848A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-65	V-1810 Std Only	Chrome plated stem; 1.6400" Head Dia., .3410" Stem Dia., 4.9200" O.A.L.
8	Intake	67-65	V-1737 Std Only	1.9200" Head Dia., .3411" Stem Dia., 4.9420" O.A.L.
8	Intake	64-63	V-1532 Std Only	1.8820" Head Dia., .3409" Stem Dia., 4.8543" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	67-65	VS-651	Inner; 1.7600" Free Height
16	Spring	67-65	VS-665	Outer; 1.9400" Free Height
16	Spring	64-63	VS-445	Inner; 1.8120" Free Height
16	Spring	64-63	VS-446	Outer; 1.9800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-63	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	67-63	ST-2092	Positive type; Rubber
16	Valve Stem Seal	67-63	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	67-63	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	67-63	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-65	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	67-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	67-65	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-63	VK-115	1 groove; Square cut key groove
32	Keeper	67-63	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-63	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-63	259-301A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	67-66	287P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.711" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 9.2:1 C.R.; Use w/E265X ring set

**VALVE TRAIN**

**VALVE TRAIN**

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## 79 5.3L 326 OHV V8 (Pontiac), 3.7188" Bore 1967-63

(cont.)

BLOCK	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Cast Piston - Individual	67-66	W287P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.711" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 9.2:1 C.R.; Use w/E265X ring set
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	67-63	4040M Std-1-10-20-30	Grooved upper main brgs.
	1	Rod Set	67-63	8-1555CPA Std-10-20-30-40	
8	Rod Pair	67-63	1555CPA Std-1-10-20-30-40		
1	Cam Set	67-63	1220M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	67-63	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
1	Screen Assy.	67-63	224-11236	3/4" inlet tube	
1	Screen Assy.	67-63	224-11232	5/8" inlet tube	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	67-63	381-8021		
1	Steel Block Plug Kit	67-63	381-4028		

## 80 5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	69-67	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
	1	3 Piece Set	66-62	KT3-489S	Incl. (1) 222-489, (1) 223-261, (1) 223-262
	1	Timing Chain	69-67	222-499	Use w/.405" tooth width sprocket; 46 Links
	1	Timing Chain	66-62	222-489	46 Links
	1	Crank Sprocket	69-67	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Crank Sprocket	66-62	223-262	18 Teeth
	1	Cam Sprocket	69-67	223-390	.405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	69-67	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	66-62	223-261	36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	69-62	CS-274	w/2 Bbl. Carb.
	1	Performance Cam	69-62	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
	1	Performance Cam	69-62	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
	1	Performance Cam	69-62	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	69-62	HT-817 Std Only	Hyd.	
16	Lifter	69-62	AT-992 Std Only	Mech.	
16	Lifter, Bulk	69-62	HT-817B Std Only	Hyd.; Carton of 128	
16	Lifter, Bulk	69-62	AT-992B Std Only	Mech.; Carton of 128	
1	Prelube	69-62	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	69-62	KC-274	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	69-62	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	69-62	KC-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	69-62	KC-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B	
1	Cam/Lifter/Timing Kit	69-67	KCT-274	w/2 Bbl. Carb.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	66-62	KCT-274A	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	69-62	RP-3212R	Chrome-Moly; 7.7900" O.A.L.	
16	Push Rod	69-62	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.	
16	Push Rod	69-62	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.	

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<b>QTY</b>	<b>PUSH ROD (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	69-62	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	69-62	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	69-62	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	69-62	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	69-62	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	69-62	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-62	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	69-62	<b>R-826A</b>	
16	Pivot Ball	69-62	<b>MR-1783</b>	
16	Pivot Ball	69-62	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	69-62	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	69-62	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	69-62	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	69-65	<b>V-1199</b> Std-3-5-15-30	w/2 Bbl. Carb.; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust	69-65	<b>V-1755</b> Std-15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; 1.6000" Head Dia., .3415" Stem Dia., 4.9030" O.A.L.
8	Exhaust	69-65	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	64-62	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	64-62	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	69-65	<b>V-1199B</b> Std-15	w/2 Bbl. Carb.; Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	69-65	<b>V-1755B15</b> 15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3565" Stem Dia., 4.9030" O.A.L.
8	Exhaust, Bulk	64-62	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	69-66	<b>V-1756</b> Std-15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; 2.0200" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	69-66	<b>V-1612</b> Std-3	w/2-4 Bbl. Carbs.; w/MFI; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake	65	<b>V-1756</b> Std-15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; 2.0200" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	65	<b>V-1200</b> Std-3-15-30	Chevelle; w/2 Bbl. Carb.; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	65	<b>V-1612</b> Std-3	Exc. Chevelle; w/2-4 Bbl. Carbs.; w/MFI; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake	64-62	<b>V-1200</b> Std-3-15-30	w/2 Bbl. Carb.; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	64-62	<b>V-1612</b> Std-3	w/2-4 Bbl. Carbs.; w/MFI; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	69-66	<b>V-1612B</b> Std Only	w/2-4 Bbl. Carbs.; w/MFI; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	69-66	<b>V-1756B15</b> 15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; Carton of 25; 2.0200" Head Dia., .3565" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	65	<b>V-1756B15</b> 15	w/2-4 Bbl. Carbs.; w/MFI; Chrome plated stem; Carton of 25; 2.0200" Head Dia., .3565" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	65	<b>V-1200B</b> Std Only	Chevelle; w/2 Bbl. Carb.; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	65	<b>V-1612B</b> Std Only	Exc. Chevelle; w/2-4 Bbl. Carbs.; w/MFI; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	64-62	<b>V-1200B</b> Std Only	w/2 Bbl. Carb.; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	64-62	<b>V-1612B</b> Std Only	w/2-4 Bbl. Carbs.; w/MFI; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	69-67	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
16	Spring	69-67	<b>VS-739R</b>	Optional-H/D; 2.0000" Free Height
16	Spring	66-62	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
16	Spring, Bulk	69-67	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	69-67	<b>VS-739RB</b>	Optional-H/D; Carton of 300; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	69-62	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	69-62	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	69-62	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	69-62	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# GM Car

## 80 5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62

(cont.)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal Bulk	69-62	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>VALVE TRAIN</b>				
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	69-66	245-2125-1 Std Only	Use w/V-1612; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	69-62	245-1562-2N Std Only	w/2 Bbl. Carb.; Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	69-62	245-1562-2 Std Only	w/2 Bbl. Carb.; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	69-62	245-2062-1 Std Only	Use w/V-1756; 2.0680" OD, 1.8125" ID, .2480" Depth
8	Int.	65-62	245-1812-3 Std Only	Use w/V-1200; 1.8175" OD, 1.5000" ID, .2160" Depth
8	Int.	65-62	245-2125-1 Std Only	Use w/V-1612 & V-1756; 2.1305" OD, 1.8125" ID, .2480" Depth
<b>TRAIN</b>				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-62	VK-115	1 groove; Square cut key groove
32	Keeper	69-62	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-62	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-62	259-203C	.015"; Carton of 100
16	Spring Insert	69-62	259-203B	.030"; Carton of 100
16	Spring Insert	69-62	259-203BRS	.030"; Carton of 500
16	Spring Insert	69-62	259-203A	.060"; Carton of 100
16	Spring Insert	69-62	259-203ARS	.060"; Carton of 500
8	Rotocap	69-62	RC-157S	
<b>BLOCK</b>				
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	69-62	310NP Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.654" CD, .9274" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	69-62	310P + Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.654" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.; When depleted use 310NP
8	Cast Piston - Individual	69-62	W310P + Std-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.654" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.; When depleted use W310NP
8	Cast Piston - Individual	69-62	W310NP Std-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; 2-5/64", 1-3/16" Ring Groove, 1.654" CD, .9274" Pin Dia., Flat Head w/4 valve reliefs
8	Powerforged	69	L-2165F Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.671" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68-62	L-2165F Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.671" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68-62	L-2166NF Std-20-30-40-60	w/2-4 Bbl. Carbs.; w/MFI; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.675" CD, .9272" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	69	WL-2165F Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.671" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-62	WL-2165F Std-20-30-40-60	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.671" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-62	WL-2166NF Std-20-30-40-60	w/2-4 Bbl. Carbs.; w/MFI; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.675" CD, .9272" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin	69-62	P-2208 Std-3-5-0015	
<b>RINGS</b>				
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	69-62	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	69-62	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	69-62	R-9903 Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	69-62	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-62	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-62	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-62	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
<b>ENGINE BEARINGS</b>				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-68	4663M Std-1-2-10-20-30-40-60	
1	Main Set	69-68	6688M10 10-20-30	.020" O/S length flange brg.
1	Main Set	69-68	4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	69-68	7329MA10 10-20-30	<b>A-Series aluminum bearings; .010" O/S length flange brg.</b>
1	Main Set	67-62	994M Std-1-10-20-30-40	
1	Rod Set	69-68	8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>

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**5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62 80 (cont.)**

QTY	ENGINE BEARINGS				DESCRIPTION	
	(cont.)	YEARS	PART NO.			
1	Rod Set	69-68	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2		<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore	
1	Rod Set	69-68	<b>8-2555CP10X2</b> 10X2-20X2-40X2		Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
1	Rod Set	69-68	<b>8-2555CP</b> Std-1-2-10-20-30-40-50		8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
1	Rod Set	67-62	<b>8-2020CP</b> Std-1-10-20-30-40			
1	Rod Set	69-68	<b>8-2555CA60</b> 60		Unplated & resizeable	
8	Rod Pair	69-68	<b>2555A</b> Std-1-2-10-20-30-40-50-60		<b>A-Series aluminum bearings</b>	
8	Rod Pair	69-68	<b>2555CP</b> Std-1-2-10-20-30-40-50		Overplated copper-lead alloy	
8	Rod Pair	67-62	<b>2020CP</b> Std-1-2-10-20-30-40-50			
8	Rod Pair	69-68	<b>2555CA60</b> 60		Unplated & resizeable	
1	Cam Set	69-64	<b>1235M</b> Std-1-10		Babbitt material; Full round design	
1	Cam Set	69-64	<b>1749M</b> Std Only		Bi-Metal Aluminum	
1	Cam Set	69-64	<b>1750M</b> Std Only		2.030" housing bore	
1	Cam Set	63-62	<b>1145M</b> Std Only		Babbitt material; Full round design	
QTY	OIL PUMP	YEARS	PART NO.		DESCRIPTION	
1	Oil Pump	69-68	<b>224-4146A</b>		High Pressure; 5/8" inlet	
1	Oil Pump	69-68	<b>224-4146</b>		5/8" inlet	
1	Oil Pump	69-62	<b>224-4143</b>		High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
1	Oil Pump	67-64	<b>224-4149</b>		Chevy II; w/shallow sump oil pan	
1	Oil Pump	67-64	<b>224-4146A</b>		Exc. Chevy II; High Pressure; 5/8" inlet	
1	Oil Pump	67-64	<b>224-4146</b>		Exc. Chevy II; 5/8" inlet	
1	Oil Pump	63-62	<b>224-4146A</b>		High Pressure; 5/8" inlet	
1	Oil Pump	63-62	<b>224-4146</b>		5/8" inlet	
1	Inter. Shaft	69-68	<b>224-6146E</b>		Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	69-68	<b>224-6146</b>		Use w/nylon shaft guide	
1	Inter. Shaft	67-64	<b>224-6146</b>		Exc. Chevy II; Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	63-62	<b>224-6146E</b>		Exc. Chevy II; Use w/nylon shaft guide	
1	Inter. Shaft	63-62	<b>224-6146</b>		Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	63-62	<b>224-6146</b>		Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	69-62	<b>224-43343</b>		Nylon	
1	Screen Assy.	69-68	<b>224-1246</b>		5/8" inlet tube	
1	Screen Assy.	67	<b>224-1246</b>		Exc. Chevy II & Nova; 5/8" inlet tube	
1	Screen Assy.	66-65	<b>224-1246</b>		Exc. Chevy II & Nova; 5/8" inlet tube	
1	Screen Assy.	64	<b>224-1146</b>		Exc. Chevy II & Nova; 5/8" inlet	
1	Screen Assy.	63-62	<b>224-1146</b>		5/8" inlet	
QTY	GASKETS	YEARS	PART NO.		DESCRIPTION	
1	Kit Gasket Set	69-62	<b>260-1000</b>		w/2 Bbl. Carb.	
1	Kit Gasket Set	69-62	<b>260-1000</b>		w/4 Bbl. Carb.	
1	Kit Gasket Set	69-62	<b>260-1079</b>		Premium Set; Performance head gskt. incl.; Performance manifold gskts. incl.; Complete set	
1	Kit Gasket Set	65-62	<b>260-1000</b>		w/2-4 Bbl. Carbs.	
2	Head Bolt Set	69-62	<b>260-2500</b>			
QTY	FREEZE PLUGS	YEARS	PART NO.		DESCRIPTION	
1	Brass Block Plug Kit	69-62	<b>381-8007</b>			
1	Steel Block Plug Kit	69-62	<b>381-4011</b>			
KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
	69-68	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b>	Re-ring		<b>205-630</b>	<b>205-130</b>
			Re-ring w/Mains		<b>205-630M</b>	<b>205-130M</b>
	69-68	w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b>	Re-ring		<b>205-630</b>	<b>205-130</b>
			Re-ring w/Mains		<b>205-630M</b>	<b>205-130M</b>
	67-62	w/2 Bbl. Carb.	Re-ring		<b>205-662</b>	<b>205-162</b>
		Re-ring w/Mains		<b>205-662M</b>	<b>205-162M</b>	
67-62	w/4 Bbl. Carb.	Re-ring		<b>205-662</b>	<b>205-162</b>	
		Re-ring w/Mains		<b>205-662M</b>	<b>205-162M</b>	
65-62	w/2-4 Bbl. Carbs.	Re-ring		<b>205-662</b>	<b>205-162</b>	
		Re-ring w/Mains		<b>205-662M</b>	<b>205-162M</b>	

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# GM Car

## 80 5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62 (cont.)

K I T S	OVERHAUL KIT		DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	69-68	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-630A</b>	<b>MKP-130A</b>	
	69-68	w/2 Bbl. Carb.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-630A</b>	<b>505-130A</b>	
	69-68	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-630C</b>	<b>MK-130C</b>	
	67	w/2 Bbl. Carb.; Exc. Chevy II; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-630A</b>	<b>505-130A</b>	
	67	w/2 Bbl. Carb.; Exc. Chevy II; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-662D</b>	<b>MKP-162D</b>	
	67	w/2 Bbl. Carb.; Chevy II; w/shallow sump oil pan; w/.405" tooth width sprocket	Master Master w/o Pistons Master w/o Rods & Mains	<b>MKP-662F</b> <b>MK-662F</b> <b>505-662F</b>	<b>MKP-162F</b> <b>MK-162F</b> <b>505-162F</b>	
	67	w/2 Bbl. Carb.; Exc. Chevy II; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-662J</b>	<b>MK-162J</b>	
	66-64	w/2 Bbl. Carb.; Exc. Chevy II; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	<b>MKP-662C</b> <b>MK-662C</b> <b>505-662C</b>	<b>MKP-162C</b> <b>MK-162C</b> <b>505-162C</b>	
	66-64	w/2 Bbl. Carb.; Chevy II; w/shallow sump oil pan	Master Master w/o Pistons Master w/o Rods & Mains	<b>MKP-662E</b> <b>MK-662E</b> <b>505-662E</b>	<b>MKP-162E</b> <b>MK-162E</b> <b>505-162E</b>	
	63-62	w/2 Bbl. Carb.; Incl. 5/8" inlet oil pump	Master Master w/o Pistons Master w/o Rods & Mains	<b>MKP-662A</b> <b>MK-662A</b> <b>505-662A</b>	<b>MKP-162A</b> <b>MK-162A</b> <b>505-162A</b>	

## 81 5.4L 330 OHV V8 (Oldsmobile), 3.9375" Bore 1967-64

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	3 Piece Set	67-64	<b>KT3-498SA3</b>	
	1	Timing Set w/Gaskets	67-64	<b>CTS-1005</b>		
	1	Timing Chain	67-64	<b>222-498</b>	48 Links	
	1	Crank Sprocket	67-64	<b>223-349</b>	18 Teeth	
	1	Cam Sprocket	67-64	<b>223-348</b>	36 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	67	<b>CS-651</b>	39 deg. cam bank angle	
	16	Lifter	67-64	<b>HT-951</b> Std Only	Hyd.	
	16	Lifter, Bulk	67-64	<b>HT-951B</b> Std Only	Hyd.; Carton of 128	
	1	Prelube	67-64	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter/Timing Kit	67	<b>KCT-651</b>	39 deg. cam bank angle; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	67	<b>RP-3182</b>	Eng. Codes "W", "WE", "XE" & "XL"; .3125" dia.; 8.2800" O.A.L.	
	16	Push Rod	66-65	<b>RP-3182</b>	.3125" dia.; 8.2800" O.A.L.	
	16	Push Rod	64	<b>RP-3174</b>	To Eng. No. 034275; 8.2340" O.A.L.	
	16	Push Rod, Bulk	67	<b>BRP-3182</b>	Eng. Codes "W", "WE", "XE" & "XL"; .3125" dia.; Carton of 100; 8.2800" O.A.L.	
	16	Push Rod, Bulk	66-65	<b>BRP-3182</b>	.3125" dia.; Carton of 100; 8.2800" O.A.L.	
	16	Push Rod, Bulk	64	<b>BRP-3174</b>	To Eng. No. 034275; Carton of 100; 8.2340" O.A.L.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	8	Arm Assy.	67-66	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.	
	8	Arm Assy., Bulk	67-66	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64	
	8	Arm	67-66	<b>R-856A</b>		
	8	Pivot	67-66	<b>MR-1903</b>		
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	8	Exhaust	67-64	<b>V-1770</b> Std Only	1.5620" Head Dia., .3422" Stem Dia., 4.7280" O.A.L.	
	8	Intake	67-64	<b>V-1773</b> Std Only	1.8760" Head Dia., .3425" Stem Dia., 4.7382" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	16	Guide	67-64	<b>VG-5038</b>	.3430" ID, 2.1200" O.A.L.	
	16	Guide, Bulk	67-64	<b>VG-5038B</b>	Carton of 50; .3430" ID, 2.1200" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	16	Spring	67-64	<b>VS-1618R</b>	Incl. damper; 1.9940" Free Height	

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5.4L 330 OHV V8 (Oldsmobile), 3.9375" Bore 1967-64 **81**  
(cont.)

VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
		16	Valve Stem Seal	67-64	ST-2001
	16	Valve Stem Seal Bulk	67-64	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
VALVE SEAT	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	8	Exh.	67-64	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
	8	Exh.	67-64	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
	8	Int.	67-64	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
VALVE, MISC	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	67-64	VK-115	1 groove; Square cut key groove
	32	Keeper	67-64	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	67-64	VK-115B	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	67-64	259-303C	.015"; ID .703"; Carton of 100
	16	Spring Insert	67-64	259-303B	.030"; ID .703"; Carton of 100
	16	Spring Insert	67-64	259-303A	.060"; ID .703"; Carton of 100
	16	Spring Insert	67-64	259-303ARS	.060"; ID .703"; Carton of 500
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set	67-64	E-252X Std-30	2-5/64, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	67-64	4281M Std-1-10-20-30-40	3.824" max. flange OD
	1	Rod Set	67-64	8-3045A Std-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Rod Set	67-64	8-3045A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
	1	Rod Set	67-64	8-3045APA Std-1	Overplated alum. alloy
	1	Rod Set	67-64	8-3045APA10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy
	8	Rod Pair	67-64	3045A Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
	8	Rod Pair	67-64	3045APA Std Only	Overplated alum. alloy
	1	Cam Set	67-64	1234M Std Only	Babbitt material; Full round design
	1	Cam Set	67-64	1789M Std Only	O.E. split type design
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	67-64	224-41203	
	1	Oil Pump	67-64	224-41203V	High Volume, check pan for clearance; Use w/224-11203V screen
1	Inter. Shaft	67-64	224-61203		
1	Screen Assy.	67-64	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	67-64	224-11203	5/8" inlet tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	67-64	260-1008	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	67	260-4010	Ser. No. prefix 4W or 8W	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	67-64	381-8020		
1	Steel Block Plug Kit	67-64	381-4020		

5.4L 331 OHV V8 (Cadillac), 3.8125" Bore 1955-49 **82**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	55-49	222-499	Use w/.405" tooth width sprocket; 46 Links
	1	Crank Sprocket	55-49	223-256	18 Teeth
	1	Cam Sprocket	55-49	223-255A	36 Teeth
CAMSHAFT/LIFTER	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	55-53	CS-256	
	1	Prelube	55-53	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
VALVE	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	55-53	V-1099 Std Only	1.5630" Head Dia., .3420" Stem Dia., 4.6660" O.A.L.
	8	Intake	55-49	V-1100 Std Only	1.7500" Head Dia., .3420" Stem Dia., 4.6450" O.A.L.
VALVE GUIDE	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	16	Guide	55	VG-503	.3450" ID, 2.2660" O.A.L.
VALVE SPRING	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	16	Spring	55-49	VS-521	Incl. damper; 2.1090" Free Height
VALVE SEAL	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	16	Valve Stem Seal	55-49	ST-2003	Positive type; Installation requires valve guide machining; Rubber
	16	Valve Stem Seal	55-49	ST-2092	Positive type; Rubber
	16	Valve Stem Seal Bulk	55-49	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
VALVE, MISC	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	55-49	VK-115	1 groove; Square cut key groove

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## 82 5.4L 331 OHV V8 (Cadillac), 3.8125" Bore 1955-49

(cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper	55-49	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	55-49	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	55-49	SL-93M Std Only	3/32" wall, must be cut to correct length

## 83 5.6L 340 OHV V8 (Buick), 3.75" Bore 1967-66

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-66	KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334
1	Timing Chain	67-66	222-359	54 Links
1	Crank Sprocket	67-66	223-323	20 Teeth
1	Cam Sprocket	67-66	223-334	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	67-66	HT-896 Std Only	Hyd.
16	Lifter, Bulk	67-66	HT-896B Std Only	Hyd.; Carton of 126
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67-66	RP-3202	9.3550" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm	67-66	R-1051	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-66	V-1744 Std Only	1.3750" Head Dia., .3401" Stem Dia., 4.5430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	67-66	VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	67-66	VG-5005	Int.; Plain; .3430" ID, 2.2500" O.A.L.
8	Guide	67-66	VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	67-66	VG-5005B	Int.; Plain; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	67-66	VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	67-66	VS-644	2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-66	ST-2001	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal Bulk	67-66	ST-2001BC	Not to be used on valves w/undercut stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-66	245-1437-3N Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
8	Exh.	67-66	245-1437-3 Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
8	Int.	67-66	245-1875-6 Std Only	1.8800" OD, 1.6250" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-66	VK-194	
16	Spring Insert	67-66	259-201B	.030"; Carton of 100
16	Spring Insert	67-66	259-201A	.060"; Carton of 100
16	Spring Insert	67-66	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	67	279P Std-20-30-40-60	Eng. Codes "NA"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
8	Cast Piston	66	279P Std-20-30-40-60	Eng. Code "MA"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	67	W279P Std-20-30-40-60	Eng. Code "NA"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	66	W279P Std-20-30-40-60	Eng. Code "MA"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	67-66	E-240K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-66	E-240X Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	67-66	WE-240K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	67-66	WE-240X Std-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-66	4418M Std-10-20-30	
1	Rod Set	67-66	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	67-66	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	67	1421M Std Only	

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**5.6L 340 OHV V8 (Buick), 3.75" Bore 1967-66 83 (cont.)**

<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	(cont.) Cam Set	66	1269M Std Only	
	1	<b>OIL PUMP</b>	67-66	224-51382	
	1	Pump Repair Kit	67-66	224-518	Gear type
	1	Pump Repair Kit	67-66	224-518V	High Volume; Installation may require timing cover removal
1	Pump Repair Kit	67-66	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions	
8	<b>CONNECTING ROD</b>	67-66	R14AJ		
	Rod			Forging No. 561; O.E. Nos. 1240016 & 1374562	
1	<b>FREEZE PLUGS</b>	67-66	381-8002		
	Brass Block Plug Kit				

**5.7L 347 OHV V8 (Pontiac), 3.9375" Bore 1957 84**

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	57	CS-187	w/M/T
	16	Lifter	57	HT-951 Std Only	Hyd.
	16	Lifter, Bulk	57	HT-951B Std Only	Hyd.; Carton of 128
	1	Prelube	57	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	<b>CAM KIT</b>	57	KC-187	
		Cam/Lifter Kit			w/M/T; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
	16	<b>PUSH ROD</b>	57	RP-3229R	
	16	Push Rod	57	RP-3028	Chrome-Moly; 9.1300" O.A.L.
	16	Push Rod, Bulk	57	BRP-3028	9.1360" O.A.L. Carton of 100; 9.1360" O.A.L.
16	<b>ROCKER PARTS</b>	57	R-848		
16	Arm Assy.	57	R-848	Incl. arm & ball	
16	Arm	57	R-848A		
8	<b>VALVE GUIDE</b>	57	VG-5034		
8	Guide	57	VG-5037	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.	
8	Guide	57	VG-5072	Int.; .3420" ID, 2.7500" O.A.L.	
8	Guide	57	VG-5075T	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.	
8	Guide, Bulk	57	VG-5072B	Int.; Threaded; .3440" ID, 2.8750" O.A.L.	
8	Guide, Bulk	57	VG-5075TB	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.	
8	Guide, Bulk	57	VG-5075TB	Int.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.	
16	<b>VALVE SPRING</b>	57	VS-445		
16	Spring	57	VS-445	Inner; 1.8120" Free Height	
16	Spring	57	VS-446	Outer; 1.9800" Free Height	
16	<b>VALVE SEAL</b>	57	MV-1233C		
16	Valve Stem Seal	57	MV-1233C	O-Ring; Rubber	
16	Valve Stem Seal Bulk	57	MV-1233	O-Ring; Carton of 100; Rubber	
32	<b>VALVE, MISC</b>	57	VK-115		
32	Keeper	57	VK-115	1 groove; Square cut key groove	
32	Keeper	57	VK-115R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	57	VK-115B	1 groove; Square cut key groove; Carton of 1000	
1	<b>RINGS</b>	57	E-252X Std-30		
	Standard Set			2-5/64, 1-3/16	
1	<b>OIL PUMP</b>	57	224-61236		
	Inter. Shaft				

**5.7L 348 OHV V8 (Chevrolet), 4.125" Bore 1961-58 85**

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Chain	61-58	222-494	48 Links
1	Crank Sprocket	61-58	223-262	18 Teeth
1	Cam Sprocket	61-58	223-261	36 Teeth
1	<b>CAMSHAFT/LIFTER</b>	61-58	CS-171	
	Camshaft			Use w/Hyd. lifters
16	Lifter	61-58	HT-817 Std Only	Hyd.
16	Lifter	61-58	AT-992 Std Only	Mech.
16	Lifter, Bulk	61-58	HT-817B Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	61-58	AT-992B Std Only	Mech.; Carton of 128
1	Prelube	61-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
8	<b>PUSH ROD</b>	61-58	RP-3028	
	Push Rod			Exh.; 9.1360" O.A.L.

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## 85 5.7L 348 OHV V8 (Chevrolet), 4.125" Bore 1961-58

(cont.)

VALVE TRAIN		QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
		8	Push Rod	61-58	RP-3102	Int.; 8.7780" O.A.L.
		8	Push Rod, Bulk	61-58	BRP-3028	Exh.; Carton of 100; 9.1360" O.A.L.
		8	Push Rod, Bulk	61-58	BRP-3102	Int.; Carton of 25; 8.7780" O.A.L.
VALVE TRAIN		QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
		16	Arm Assy.	61-58	R-827	Incl. arm, ball & nut
		16	Stud	61-58	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
		16	Stud	61-58	MR-1949	3/8" x 24 x 2.495"
VALVE TRAIN		QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
		8	Guide	61-58	VG-5033	Exh.; .3735" ID, 2.6200" O.A.L.
		8	Guide	61-58	VG-5062	Int.; Plain; .3735" ID, 2.3800" O.A.L.
VALVE TRAIN		QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
		16	Spring	61-58	VS-522	Incl. damper; 2.0000" Free Height
VALVE TRAIN		QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
		16	Valve Stem Seal	61-58	ST-2002	Installation requires valve guide machining; Polyacrylate
		16	Valve Stem Seal Bulk	61-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
VALVE TRAIN		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
		32	Keeper	61-58	VK-138	1 groove; Square cut key groove
		32	Keeper	61-58	VK-138R	1 groove; Square cut key groove; Hardened
		32	Keeper, Bulk	61-58	VK-138B	1 groove; Square cut key groove; Carton of 1000
BLOCK		QTY	RINGS	YEARS	PART NO.	DESCRIPTION
		1	Premium Set	61-58	E-243K Std-20-30-40-60	2-5/64, 1-3/16
		1	Standard Set	61-58	E-243X Std-20-30-40-60	2-5/64, 1-3/16
		8	Premium Single Cylinder Set	61-58	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
		8	Standard Single Cylinder Set	61-58	WE-243X Std-20-30-40-60	2-5/64, 1-3/16
BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
		1	Main Set	61-58	4036M Std-10-20	
		1	Rod Set	61-58	8-3190A Std-1-2-10-20-30-40-60	A-Series aluminum bearings
		8	Rod Pair	61-58	3190A Std-1-2-10-20-30-40-50-60	A-Series aluminum bearings
		1	Cam Set	61-58	1177M Std Only	
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
		1	Oil Pump	61-58	224-4146A	High Pressure; 5/8" inlet
		1	Oil Pump	61-58	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
		1	Oil Pump	61-58	224-4146	5/8" inlet
		1	Screen Assy.	61-58	224-1146	5/8" inlet
		1	Tool	61-58	MT-J21882	Pump screen installation tool for 5/8" tube

## 86 5.7L 350 OHV V8 (Buick), 3.8" Bore 1981-68

VIN Codes "B" 1981, "H" 1972-77, "J" 1972-77, "K" 1972, "X" 1978-80

VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	3 Piece Set	80-68	KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334
		1	Timing Chain	81-68	222-359	54 Links
		1	Crank Sprocket	81-68	223-323	20 Teeth
		1	Cam Sprocket	81-68	223-334	40 Teeth
VALVE TRAIN		QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
		1	Camshaft	80	CS-676	
		1	Camshaft	79-78	CS-707	VIN Code "B"
		1	Camshaft	79-78	CS-676	VIN Code "X"
		1	Camshaft	77-76	CS-676	
		1	Camshaft	75	CS-647	
		1	Camshaft	74	CS-647	Exc. Calif. Emis.
		1	Camshaft	73-68	CS-647	
		16	Lifter	80-70	HT-969 Std Only	Hyd.; w/.440" wide oil groove
		16	Lifter	80-70	HT-969R Std Only	Speed-Pro Hi-Revolution Hyd.
		16	Lifter	79-78	HT-951 Std Only	VIN Code "B"; Hyd.
		16	Lifter	69-68	HT-969 Std Only	Use w/hollow push rods; Hyd.; w/.440" wide oil groove
		16	Lifter	69-68	HT-896 Std Only	Use w/solid push rods; Hyd.
		16	Lifter, Bulk	80-70	HT-969B Std Only	Hyd.; Carton of 128
		16	Lifter, Bulk	80-70	HT-969RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
		16	Lifter, Bulk	79-78	HT-951B Std Only	VIN Code "B"; Hyd.; Carton of 128
		16	Lifter, Bulk	69-68	HT-969B Std Only	Use w/hollow push rods; Hyd.; Carton of 128
		16	Lifter, Bulk	69-68	HT-896B Std Only	Use w/solid push rods; Hyd.; Carton of 126
		1	Prelube	80-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
VALVE TRAIN		QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
		1	Cam/Lifter Kit	80	KC-676	Hyd.; Incl. (1) CS-676, (16) HT-969, (1) 55-403B

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**5.7L 350 OHV V8 (Buick), 3.8" Bore 1981-68 86**

VIN Codes "B" 1981, "H" 1972-77, "J" 1972-77, "K" 1972, "X" 1978-80 (cont.)

QTY	PART NO.	YEARS	DESCRIPTION
<b>VALVE TRAIN</b>	<b>CAM KIT (cont.)</b>		
	1 Cam/Lifter Kit	79-78	<b>KC-707</b> VIN Code "B"; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
	1 Cam/Lifter Kit	79-78	<b>KC-676</b> VIN Code "X"; Hyd.; Incl. (1) CS-676, (16) HT-969, (1) 55-403B
	1 Cam/Lifter Kit	77-76	<b>KC-676</b> Hyd.; Incl. (1) CS-676, (16) HT-969, (1) 55-403B
	1 Cam/Lifter Kit	75	<b>KC-647</b> Hyd.; Incl. (1) CS-647, (16) HT-969, (1) 55-403B
	1 Cam/Lifter Kit	74	<b>KC-647</b> Exc. Calif. Emis.; Hyd.; Incl. (1) CS-647, (16) HT-969, (1) 55-403B
	1 Cam/Lifter Kit	73-70	<b>KC-647</b> Hyd.; Incl. (1) CS-647, (16) HT-969, (1) 55-403B
	1 Cam/Lifter Kit	69-68	<b>KC-647</b> Use w/hollow push rods; Hyd.; Incl. (1) CS-647, (16) HT-969, (1) 55-403B
	1 Cam/Lifter/Timing Kit	75	<b>KCT-647</b> Hyd.; Incl. (1) CS-647, (16) HT-969, (1) KT3-359S, (1) 55-403B
	1 Cam/Lifter/Timing Kit	74	<b>KCT-647</b> Exc. Calif. Emis.; Hyd.; Incl. (1) CS-647, (16) HT-969, (1) KT3-359S, (1) 55-403B
1 Cam/Lifter/Timing Kit	73-70	<b>KCT-647</b> Hyd.; Incl. (1) CS-647, (16) HT-969, (1) KT3-359S, (1) 55-403B	
1 Cam/Lifter/Timing Kit	69-68	<b>KCT-647</b> Use w/hollow push rods; Hyd.; Incl. (1) CS-647, (16) HT-969, (1) KT3-359S, (1) 55-403B	
<b>VALVE TRAIN</b>	<b>PUSH ROD</b>		
	16 Push Rod	80-70	<b>RP-3214R</b> Chrome-Moly; 9.6800" O.A.L.
	16 Push Rod	80-70	<b>RP-3180</b> 9.6800" O.A.L.
	16 Push Rod, Bulk	80-70	<b>BRP-3180</b> Carton of 100; 9.6800" O.A.L.
	<b>ROCKER PARTS</b>		
	8 Arm Assy.	80-70	<b>R-870</b> L.H.; Incl. arm & retainer; Stamped steel
	8 Arm	80-70	<b>R-870W</b> L.H.; Stamped steel
	8 Arm	69-68	<b>R-857</b> Exh. 2-3-6-7
	8 Arm	69-68	<b>R-857</b> Int. 1-4-5-8
	1 Shaft Assy.	80-70	<b>RA-1072</b> For 1 complete Eng.
16 Retainer	80-68	<b>MR-1829</b>	
<b>VALVE TRAIN</b>	<b>VALVE GUIDE</b>		
	8 Guide	80-68	<b>VG-5073</b> Exh.; .3745" ID, 2.3750" O.A.L.
	8 Guide	80-68	<b>VG-5062</b> Int.; Plain; .3735" ID, 2.3800" O.A.L.
	<b>VALVE SPRING</b>		
	8 Spring	80-75	<b>VS-711</b> Int.; 2.1000" Free Height
	16 Spring	74-72	<b>VS-711</b> Exh. & Int.; 2.1000" Free Height
	8 Spring	71	<b>VS-711</b> Int.; 2.1000" Free Height
	16 Spring	70-68	<b>VS-711</b> Exh. & Int.; 2.1000" Free Height
	<b>VALVE SEAL</b>		
	16 Valve Stem Seal	80-68	<b>ST-2002</b> Installation requires valve guide machining; Polyacrylate
16 Valve Stem Seal Bulk	80-68	<b>ST-2002BC</b> Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
<b>VALVE TRAIN</b>	<b>VALVE SEAT</b>		
	8 Exh.	80-68	<b>245-1625-1N</b> Std Only Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
	8 Exh.	80-68	<b>245-1625-1</b> Std Only 1.6300" OD, 1.3750" ID, .2160" Depth
	8 Int.	80-68	<b>245-2000-1</b> Std Only 2.0055" OD, 1.7500" ID, .2160" Depth
	<b>VALVE, MISC</b>		
	32 Keeper	80-68	<b>VK-97</b> .030"; Carton of 100
	16 Spring Insert	80-68	<b>259-201B</b> .060"; Carton of 100
	16 Spring Insert	80-68	<b>259-201A</b> .060"; Carton of 100
	16 Spring Insert	80-68	<b>259-201ARS</b> .060"; Carton of 500
	<b>BLOCK</b>	<b>PISTON</b>	
8 Cast Piston		80-78	<b>657P30</b> 30 Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia.
8 Cast Piston		77-72	<b>657P30</b> 30 Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia.
8 Cast Piston		71-68	<b>340P30</b> 30-40 High comp.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .085" deep x 3.050" dia. - 10.0:1 C.R.
8 Cast Piston - Individual		71-68	<b>W340P30</b> 30-40 High comp.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .085" deep x 3.050" dia. - 10.0:1 C.R.
<b>RINGS</b>			
1 Premium Set		80-68	<b>E-288K</b> Std-20-30-40-60 2-5/64, 1-3/16
1 Premium Set		80-68	<b>E-288KC20</b> 20-40 2-5/64, 1-3/16
1 Standard Set		80-68	<b>E-288X</b> Std-20-30-40-60 2-5/64, 1-3/16
8 Premium Single Cylinder Set		80-68	<b>WE-288K</b> Std-20-30-40-60 2-5/64, 1-3/16
8 Standard Single Cylinder Set	80-68	<b>WE-288X</b> Std-20-30-40-60 2-5/64, 1-3/16	

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# GM Car

**86 5.7L 350 OHV V8 (Buick), 3.8" Bore 1981-68**  
 (cont.) VIN Codes "B" 1981, "H" 1972-77, "J" 1972-77, "K" 1972, "X" 1978-80

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	80-68	4418M	Std-10-20-30		
	1	Rod Set	80-68	8-2500RAA	Std-10-20-30-40	A-Series aluminum bearings	
	8	Rod Pair	80-68	2500RAA	Std-1-2-10-20-30-40	A-Series aluminum bearings	
	1	Cam Set	80-68	1422M	Std Only	w/oil hole	
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Pump Repair Kit	80-75	224-51382			
	1	Pump Repair Kit	80-68	224-518	Gear type		
	1	Pump Repair Kit	80-68	224-518V	High Volume; Installation may require timing cover removal		
	1	Pump Repair Kit	80-68	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions		
1	Screen Assy.	80-69	224-14242				
QTY	CONNECTING ROD	YEARS	PART NO.	DESCRIPTION			
8	Rod	73-68	R14AJ	Forging No. 561; O.E. Nos. 1240016 & 1374562			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	81-68	260-1012	Int. manifold gskt. not incl.; Premium valve stem seals incl.			
1	Valley Pan Gasket Set	81-68	260-4012				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	80-68	381-8002				
RE-RING KIT						PREMIUM	ECONOMY
YEARS	DESCRIPTION				KIT NO.	KIT NO.	
80-72	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-634 205-634M	205-134 205-134M	
71-68	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.			Re-ring Re-ring w/Mains	205-634 205-634M	205-134 205-134M	
OVERHAUL KIT						PREMIUM	ECONOMY
YEARS	DESCRIPTION				KIT NO.	KIT NO.	
80	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634C MK-634C	MKP-134C MK-134C	
80	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634C	505-134C	
79-78	VIN Code "X"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634C MK-634C	MKP-134C MK-134C	
79-78	VIN Code "X"; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634C	505-134C	
77-76	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634C MK-634C	MKP-134C MK-134C	
77-76	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634C	505-134C	
75	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634A MK-634A	MKP-134A MK-134A	
75	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634A	505-134A	
74	Exc. Calif. Emis.; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634A MK-634A	MKP-134A MK-134A	
74	Exc. Calif. Emis.; Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634A	505-134A	
73-72	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master Master w/o Pistons	MKP-634A MK-634A	MKP-134A MK-134A	
73-72	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Rods & Mains	505-634A	505-134A	
71-70	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Pistons	MK-634A	MK-134A	
69-68	Int. manifold gskt. not incl.; Use w/hollow push rods; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Gear type oil pump kit incl.			Master w/o Pistons	MK-634A	MK-134A	

BLOCK

KITS

KITS

**5.7L 350 OHV V8 (Pontiac), 3.875" Bore 1977-68 87**

VIN Codes "A" 1974, "B" 1974, "E" 1975, "K" 1974-75, "M" 1972-76, "N" 1972-75, "P" 1976-77, "V" 1976

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	77-68	<b>KT3-350S</b>	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	77-68	<b>222-350</b>	60 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	77	<b>CS-690</b>	
1	Camshaft	76	<b>CS-641</b>	VIN Code "M"
1	Camshaft	76	<b>CS-690</b>	VIN Code "P"
1	Camshaft	75-71	<b>CS-641</b>	
1	Camshaft	70-68	<b>CS-641</b>	Eng. Codes "WN" & "WR"
1	Camshaft	69	<b>CS-641</b>	Eng. Codes "WV", "WZ" & "WU"
1	Camshaft	68	<b>CS-641</b>	Eng. Codes "WD", "WK", "XC", "YM" & "YP"
16	Lifter	77-68	<b>HT-951</b> Std Only	Hyd.
16	Lifter, Bulk	77-68	<b>HT-951B</b> Std Only	Hyd.; Carton of 128
1	Prelube	77-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	77	<b>KC-690C</b>	Hyd.; Incl. (1) CS-690, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	76	<b>KC-641</b>	VIN Code "M"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	76	<b>KC-690C</b>	VIN Code "P"; Hyd.; Incl. (1) CS-690, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	75-71	<b>KC-641</b>	Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	70-68	<b>KC-641</b>	Eng. Codes "WN" & "WR"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	69	<b>KC-641</b>	Eng. Codes "WV", "WZ" & "WU"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	68	<b>KC-641</b>	Eng. Codes "WD", "WK", "XC", "YM" & "YP"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	<b>KCT-641</b>	VIN Code "M"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-71	<b>KCT-641</b>	Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	70-68	<b>KCT-641</b>	Eng. Codes "WN" & "WR"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	69	<b>KCT-641</b>	Eng. Codes "WV", "WZ" & "WU"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68	<b>KCT-641</b>	Eng. Codes "WD", "WK", "XC", "YM" & "YP"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	77-68	<b>RP-3229R</b>	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	77-68	<b>RP-3028</b>	9.1360" O.A.L.
16	Push Rod, Bulk	77-68	<b>BRP-3028</b>	Carton of 100; 9.1360" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	77-71	<b>R-1032</b>	Incl. arm, ball & nut
16	Arm Assy.	70-68	<b>R-850</b>	w/HO; Incl. arm & ball
16	Arm Assy.	70-68	<b>R-1032</b>	Exc. HO; Incl. arm, ball & nut
16	Arm Assy., Bulk	77-71	<b>R-1032B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	70-68	<b>R-1032B</b>	Exc. HO; Incl. arm, ball & nut; Carton of 64
16	Arm	77-71	<b>R-849A</b>	
16	Arm	70-68	<b>R-849A</b>	Exc. HO
16	Pivot Ball	70-68	<b>MR-1810</b>	w/HO
16	Retainer	77-68	<b>MR-1829</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	77-74	<b>V-1963</b> Std Only	Chrome plated stem; 1.6610" Head Dia., .3410" Stem Dia., 4.9610" O.A.L.
8	Exhaust	73	<b>V-1902</b> Std Only	Eng. Codes "YJ" & "YW"; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	73	<b>V-1963</b> Std Only	Exc. Eng. Code "YJ"; Chrome plated stem; 1.6610" Head Dia., .3410" Stem Dia., 4.9610" O.A.L.
8	Exhaust	72-71	<b>V-1832</b> Std Only	Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	70	<b>V-1832</b> Std Only	Eng. Codes "W7", "WU", "X7", "XR", "YN" & "YU"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	70-69	<b>V-3923</b> Std Only	w/4 Bbl. Carb.; Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.
8	Exhaust	69	<b>V-1832</b> Std Only	Eng. Codes "WC", "WM", "WP", "WU", "XB", "XL", "XR", "XS", "XV", "YE", "YJ", "YN" & "YU"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	69	<b>V-3923</b> Std Only	Eng. Codes "WV", "WZ" & "WU"; Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

**87 5.7L 350 OHV V8 (Pontiac), 3.875" Bore 1977-68**  
 (cont.) VIN Codes "A" 1974, "B" 1974, "E" 1975, "K" 1974-75, "M" 1972-76, "N" 1972-75, "P" 1976-77, "V" 1976

VALVE TRAIN

VALVE TRAIN

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68	V-1832 Std Only	Eng. Codes "WC", "WP", "YJ" & "YN"; w/M/T; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	68	V-1823 Std Only	Eng. Codes "WD", "WK", "XC", "YM" & "YP"; 1.6600" Head Dia., .3410" Stem Dia., 5.0820" O.A.L.
8	Intake	77-75	V-1903 Std Only	Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
8	Intake	74-71	V-1964 Std Only	Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 4.9800" O.A.L.
8	Intake	70-69	V-1826 Std Only	Eng. Codes "WN" & "WR"; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
8	Intake	69	V-1826 Std Only	Eng. Codes "WV", "WZ" & "WU"; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
8	Intake	68	V-1824 Std Only	w/M/T; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 5.0890" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	77-70	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide	77-68	VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
8	Guide	69	VG-5038	Int.; Eng. Codes "WC", "WM", "WP", "WU", "XB", "XL", "XR", "XS", "XV", "YE", "YJ", "YN" & "YU"; .3430" ID, 2.1200" O.A.L.
8	Guide	68	VG-5038	Int.; Eng. Codes "WC", "WP", "YJ" & "YN"; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	77-70	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	69	VG-5038B	Int.; Eng. Codes "WC", "WM", "WP", "WU", "XB", "XL", "XR", "XS", "XV", "YE", "YJ", "YN" & "YU"; Carton of 50; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	68	VG-5038B	Int.; Eng. Codes "WC", "WP", "YJ" & "YN"; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	77-71	VS-651	Inner; 1.7600" Free Height
16	Spring	77-71	VS-1660R	Outer; Hi-Perf.; 1.9400" Free Height
16	Spring	77-71	VS-665	Outer; 1.9400" Free Height
16	Spring	70	VS-651	Inner; w/2 Bbl. Carb.; HO; 1.7600" Free Height
16	Spring	70	VS-1433	Inner; Eng. Codes "WN" & "WR"; 1.9350" Free Height
16	Spring	70	VS-665	Outer; 1.9400" Free Height
16	Spring	69	VS-651	Inner; Eng. Codes "WC", "WM", "WP", "WU", "XB", "XL", "XR", "XS", "XV", "YE", "YJ", "YN" & "YU"; 1.7600" Free Height
16	Spring	69-68	VS-665	Outer; 1.9400" Free Height
16	Spring	68	VS-651	Inner; Eng. Codes "WC", "WP", "YJ" & "YN"; 1.7600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	77-68	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	77-68	ST-2092	Positive type; Rubber
16	Valve Stem Seal	77-68	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	77-68	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	77-68	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	77-76	245-2125-2 Std Only	VIN Code "P"; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Exh.	77-74	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	77-74	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	75	245-2125-2 Std Only	VIN Codes "E" & "K"; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Int.	74-71	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	73-69	245-1750-2N Std Only	Use w/V-1832 & V-1963; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73-69	245-1750-2 Std Only	Use w/V-1832 & V-1963; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73-69	245-1812-1N Std Only	Use w/V-1902 & V-3923; Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Exh.	73-69	245-1812-1 Std Only	Use w/V-1902 & V-3923; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Int.	70-69	245-2125-2 Std Only	Eng. Codes "WN" & "WR"; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Int.	69	245-2125-1 Std Only	Eng. Codes "WC", "WM", "WP", "WU", "XB", "XL", "XR", "XS", "XV", "YE", "YJ", "YN" & "YU"; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	68	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	68	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth

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**5.7L 350 OHV V8 (Pontiac), 3.875" Bore 1977-68 87**

VIN Codes "A" 1974, "B" 1974, "E" 1975, "K" 1974-75, "M" 1972-76, "N" 1972-75, "P" 1976-77, "V" 1976 (cont.)

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Int.	68	245-2125-1 Std Only	Eng. Codes "WC", "WP", "YJ" & "YN"; 2.1305" OD, 1.8125" ID, .2480" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
32	Keeper	77-68	VK-115	1 groove; Square cut key groove	
32	Keeper	77-68	VK-115R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	77-68	VK-115B	1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	77-68	259-203B	.030"; Carton of 100	
16	Spring Insert	77-68	259-203BRS	.030"; Carton of 500	
16	Spring Insert	77-68	259-203A	.060"; Carton of 100	
16	Spring Insert	77-68	259-203ARS	.060"; Carton of 500	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Cast Piston	77-68	357P20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9805" Pin Dia., Flat Head w/4 valve reliefs - 7.8:1 C.R.	
8	Cast Piston - Individual	77-68	W357P20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9805" Pin Dia., Flat Head w/4 valve reliefs - 7.8:1 C.R.	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	77-68	E-245K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	77-68	E-245X Std-20-30-40-60-80	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	77-68	WE-245K Std-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	77-68	WE-245X Std-20-30-40-60-80	2-5/64, 1-3/16	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	77-68	4040M Std-1-10-20-30	Grooved upper main brgs.	
1	Rod Set	77-68	8-1555CPA Std-10-20-30-40		
8	Rod Pair	77-68	1555CPA Std-1-10-20-30-40		
1	Cam Set	77-68	1220M Std Only		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	77-75	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
1	Oil Pump	74-72	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
1	Oil Pump	71	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
1	Oil Pump	70-68	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
1	Inter. Shaft	77-75	224-61236		
1	Inter. Shaft	74-71	224-61236		
1	Inter. Shaft	70-68	224-61236		
1	Screen Assy.	77-72	224-11232	Use w/O.E. pump; 5/8" inlet tube	
1	Screen Assy.	77-68	224-11236	Use w/224-43364S; 3/4" inlet tube	
1	Screen Assy.	71	224-11232	Use w/O.E. pump; 5/8" inlet tube	
1	Screen Assy.	70	224-11232	Use w/O.E. pump; 5/8" inlet tube	
1	Screen Assy.	69	224-11232	Use w/O.E. pump; 5/8" inlet tube	
1	Screen Assy.	68	224-11232	Use w/O.E. pump; 5/8" inlet tube	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	77-68	260-1025		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	77-68	381-8021		
1	Steel Block Plug Kit	77-68	381-4028		
<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
77	Re-ring			205-621	205-121
76-75	Re-ring			205-621	205-121
74-68	Re-ring			205-621	205-121
<b>OVERHAUL KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
77	Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621E	MKP-121E
		Master w/o Pistons		MK-621E	MK-121E
76	Exc. VIN Code "P"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621D	MKP-121D
		Master w/o Pistons		MK-621D	MK-121D
76	VIN Code "P"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621E	MKP-121E
		Master w/o Pistons		MK-621E	MK-121E
75-71	Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621D	MKP-121D
		Master w/o Pistons		MK-621D	MK-121D
70-68	Eng. Codes "WN & "WR"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621D	MKP-121D
		Master w/o Pistons		MK-621D	MK-121D
69	Eng. Codes "WV", "WZ" & "WU"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master		MKP-621D	MKP-121D
		Master w/o Pistons		MK-621D	MK-121D

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# GM Car

## 87 5.7L 350 OHV V8 (Pontiac), 3.875" Bore 1977-68 (cont.) VIN Codes "A" 1974, "B" 1974, "E" 1975, "K" 1974-75, "M" 1972-76, "N" 1972-75, "P" 1976-77, "V" 1976

OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION	MKP-621D	MKP-121D
68	Eng. Codes "WD", "WK", "XC", "YM" & "YP"; Incl. High Master Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. Master w/o Pistons grooved upper main brgs.	MK-621D	MK-121D

## 88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-89	KT3-499SA5	VIN Code "7"; Incl. hardened cam sprocket; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-732T, (1) 223-797
1	3 Piece Set	90-87	KT3-499SA3	Incl. hardened cam sprocket; Incl. (1) 222-499, (1) 223-391, (1) 223-732T
1	3 Piece Set	86-67	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	90-87	CTS-1006	Incl. hardened cam sprocket; Oil pan gskt. not incl.
1	Timing Set w/Gaskets	74-67	CTS-1001	w/.405" tooth width sprocket
1	Timing Chain	90-67	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	90-89	223-797	VIN Code "7"; 18 Teeth
1	Crank Sprocket	90-67	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	90-87	223-732T	Hardened; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	86-67	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	86-67	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90	CS-808	VIN Codes "7" & "8"; w/r. lifters
1	Camshaft	89-87	CS-274	Exc. VIN Code "8"
1	Camshaft	89-87	CS-808	VIN Code "8"; w/r. lifters
1	Camshaft	86-82	CS-274	Exc. VIN Code "8"
1	Camshaft	86-82	CS-766	VIN Code "8"; w/flat lifters
1	Camshaft	81-73	CS-274	Exc. Corvette
1	Camshaft	72	CS-274	Exc. Corvette; Exc. Calif. Emis.
1	Camshaft	71-69	CS-274	Exc. Corvette
1	Camshaft	68-67	CS-274	Exc. Corvette
1	Performance Cam	80-73	CS-1095R	Corvette; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 224 Int., 224 Exh.; Valve lift .4500" Int., .4600" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	80-67	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-67	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-67	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-67	CS-1582R	Pro-5000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 234 Int., 244 Exh.; Valve lift .4880" Int., .5080" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	72	CS-1145R	Corvette; Pro-4000 Perf. Cam; Use w/Mech. lifters; Mech.; Duration at .050: 242 Int., 254 Exh.; Valve lift .4600" Int., .4850" Exh.; Lobe Separation 116 Degrees
1	Performance Cam	71-69	CS-1095R	Corvette; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 224 Int., 224 Exh.; Valve lift .4500" Int., .4600" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	71-69	CS-1145R	Corvette; Pro-4000 Perf. Cam; Use w/Mech. lifters; Mech.; Duration at .050: 242 Int., 254 Exh.; Valve lift .4600" Int., .4850" Exh.; Lobe Separation 116 Degrees
16	Lifter	90	HT-817 Std Only	Exc. VIN Codes "7" & "8"; Hyd.
16	Lifter	90	HT-2148 Std Only	VIN Codes "7" & "8"; Hyd. rlr.
16	Lifter	89-87	HT-817 Std Only	Exc. VIN Code "8"; Hyd.
16	Lifter	89-87	HT-2148 Std Only	VIN Code "8"; Hyd. rlr.
16	Lifter	86-73	HT-817 Std Only	Hyd.
16	Lifter	86-73	HT-817R Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter	72-69	HT-817 Std Only	Corvette; Exc. Spec. Hi-Perf.; Hyd.
16	Lifter	72-69	AT-992 Std Only	Corvette; Mech.
16	Lifter	72-69	HT-817 Std Only	Exc. Corvette; Hyd.
16	Lifter	72-67	HT-817R Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter	68-67	HT-817 Std Only	Hyd.

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

<b>CAMSHAFT/LIFTER</b>				
<b>QTY</b>	<b>(cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Lifter, Bulk	90	<b>HT-817B</b> Std Only	Exc. VIN Codes "7" & "8"; Hyd.; Carton of 128
16	Lifter, Bulk	90	<b>HT-2148B</b> Std Only	VIN Codes "7" & "8"; Hyd. rlr.; Carton of 128
16	Lifter, Bulk	89-87	<b>HT-817B</b> Std Only	Exc. VIN Code "8"; Hyd.; Carton of 128
16	Lifter, Bulk	89-87	<b>HT-2148B</b> Std Only	VIN Code "8"; Hyd. rlr.; Carton of 128
16	Lifter, Bulk	86-73	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	86-73	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
16	Lifter, Bulk	72-69	<b>AT-992B</b> Std Only	Corvette; Mech.; Carton of 128
16	Lifter, Bulk	72-69	<b>HT-817B</b> Std Only	Exc. Corvette; Hyd.; Carton of 128
16	Lifter, Bulk	72-69	<b>HT-817RB</b> Std Only	Exc. Corvette; Speed-Pro Hi-Revolution Hyd.; Carton of 128
16	Lifter, Bulk	68-67	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	68-67	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	90-67	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	90	<b>KC-808</b>	VIN Codes "7" & "8"; w/rlr. lifters; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89-87	<b>KC-808</b>	VIN Code "8"; w/rlr. lifters; Hyd. rlr.; Incl. (1) CS-808, (16) HT-2148, (1) 55-403B
1	Cam/Lifter Kit	89-82	<b>KC-274</b>	Exc. VIN Code "8"; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	86-82	<b>KC-766</b>	VIN Code "8"; w/flat lifters; Hyd.; Incl. (1) CS-766, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	81-80	<b>KC-274</b>	Exc. Corvette; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-73	<b>KC-1095R</b>	Corvette; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 224 Int., 224 Exh.; Incl. (1) CS-1095R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-73	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-73	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-73	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	79-73	<b>KC-274</b>	Exc. Corvette; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72	<b>KC-1145R</b>	Corvette; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 254 Exh.; Incl. (16) AT-992, (1) CS-1145R, (1) 55-403B
1	Cam/Lifter Kit	72	<b>KC-274</b>	Exc. Corvette; Exc. Calif. Emis.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-1103R</b>	Corvette; Exc. Spec. Hi-Perf.; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-1014R</b>	Corvette; Exc. Spec. Hi-Perf.; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-1106R</b>	Corvette; Exc. Spec. Hi-Perf.; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-1103R</b>	Exc. Corvette; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-1014R</b>	Exc. Corvette; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

**88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67**  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	72-69	KC-1106R	Exc. Corvette; Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71-69	KC-1095R	Corvette; Exc. Spec. Hi-Perf.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 224 Int., 224 Exh.; Incl. (1) CS-1095R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71-69	KC-1145R	Corvette; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 254 Exh.; Incl. (16) AT-992, (1) CS-1145R, (1) 55-403B
1	Cam/Lifter Kit	71-69	KC-274	Exc. Corvette; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	89-87	KCT-274E	Exc. VIN Code "8"; Incl. hardened cam sprocket; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-499SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-82	KCT-274	Exc. VIN Code "8"; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-82	KCT-766A	VIN Code "8"; w/flat lifters; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-766, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	81-80	KCT-274	Exc. Corvette; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-73	KCT-274	Exc. Corvette; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-274	Exc. Corvette; Exc. Calif. Emis.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-69	KCT-274	Exc. Corvette; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68-67	KCT-274	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-87	RP-3262	7.1920" O.A.L.
16	Push Rod	86-67	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	86-67	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	86-67	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	86-67	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	86-67	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	90-87	BRP-3262	Carton of 100; 7.1920" O.A.L.
16	Push Rod, Bulk	86-67	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	86-67	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	86-67	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
8	Push Rod Guide Plate	90-67	MR-1930	Speed-Pro flat guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-67	MR-1896	Speed-Pro flat guide plate for 5/16" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-67	MR-1892	Speed-Pro stepped guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-67	MR-1891	Speed-Pro stepped guide plate for 5/16" dia. push rods; Requires screw-in studs
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90	R-973	VIN Code "7"; Incl. arm, ball & nut
16	Arm Assy.	89-85	R-973	VIN Code "7"; Incl. arm, ball & nut
16	Arm Assy.	84-67	R-826	Incl. arm, ball & nut
16	Arm Assy.	84-67	R-865R	Speed-Pro 1.5 ratio stamped steel, long slot; Incl. H/D 4 groove ball & nut
16	Arm Assy.	84-67	R-1024R	Speed-Pro 1.5 ratio stamped steel, rlr. tip, long slot; Incl. H/D 4 groove ball & nut

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

<b>QTY</b>	<b>ROCKER PARTS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	84-67	<b>R-952R</b>	Speed-Pro 1.6 ratio stamped steel, long slot; Incl. H/D 4 groove ball & nut
16	Arm Assy.	84-67	<b>R-1025R</b>	Speed-Pro 1.6 ratio stamped steel, rlr. tip, long slot; Incl. H/D 4 groove ball & nut
16	Arm Assy., Bulk	90	<b>R-973B</b>	VIN Code "7"; Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	89-85	<b>R-973B</b>	VIN Code "7"; Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	84-67	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	84-67	<b>R-865RB</b>	Speed-Pro 1.5 ratio stamped steel, long slot; Incl. ball & nut; Carton of 64
16	Arm	90	<b>R-973A</b>	VIN Code "7"
16	Arm	90-85	<b>R-1022R</b>	Speed-Pro 1.5 ratio stamped steel, long slot; Fits Eng. w/center bolt valve covers
16	Arm	90-85	<b>R-1023R</b>	Speed-Pro 1.6 ratio, stamped steel, long slot; Fits Eng. w/center bolt valve covers
16	Arm	89-85	<b>R-973A</b>	VIN Code "7"
16	Arm	84-67	<b>R-826A</b>	
16	Pivot Ball	90-67	<b>MR-1783</b>	
16	Pivot Ball	90-67	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	90-67	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	90-67	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	90-67	<b>MR-1865RS</b>	Speed-Pro 3/8" dia. Perf. screw-in stud; requires head machining
16	Stud	90-67	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	90	<b>V-1904</b> Std-3-15-30	VIN Code "7"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	90-78	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	89-78	<b>V-1904</b> Std-3-15-30	VIN Code "7"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	77-71	<b>V-4231</b> Std Only	Corvette; Chrome plated stem; Swirl Polish; 1.6000" Head Dia., .3407" Stem Dia., 4.9000" O.A.L.
8	Exhaust	77-71	<b>V-1888X</b> Std-15	Exc. Corvette; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	77-71	<b>V-1904</b> Std-3-15-30	Exc. Corvette; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	77-69	<b>V-1755</b> Std-15	Corvette; Chrome plated stem; 1.6000" Head Dia., .3415" Stem Dia., 4.9030" O.A.L.
8	Exhaust	70-69	<b>V-4231</b> Std Only	Corvette; Chrome plated stem; Swirl Polish; 1.6000" Head Dia., .3407" Stem Dia., 4.9000" O.A.L.
8	Exhaust	70-69	<b>V-1888X</b> Std-15	Exc. Corvette; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	70-69	<b>V-1199</b> Std-3-5-15-30	Exc. Corvette; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust	68-67	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	68-67	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	90	<b>V-1904B</b> Std-15	VIN Code "7"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	89-78	<b>V-1904B</b> Std-15	VIN Code "7"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	77-71	<b>V-1904B</b> Std-15	Exc. Corvette; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	77-69	<b>V-1755B15</b> 15	Corvette; Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3565" Stem Dia., 4.9030" O.A.L.
8	Exhaust, Bulk	70-69	<b>V-1199B</b> Std-15	Exc. Corvette; Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	68-67	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	90-78	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	77-69	<b>V-1756</b> Std-15	Corvette; Chrome plated stem; 2.0200" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	77-67	<b>V-1926</b> Std-3-15	Exc. Corvette; Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	68-67	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	90-78	<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	77-69	<b>V-1756B15</b> 15	Corvette; Chrome plated stem; Carton of 25; 2.0200" Head Dia., .3565" Stem Dia., 4.8800" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

**88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67**  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	77-67	V-1926B Std-15	Exc. Corvette; Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	68-67	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-85	VG-1375	Exh.; Use w/replaceable exh. valve guide; Caution when removing guide w/stepped OD; .3740" ID, 2.2000" O.A.L.
8	Guide	90-67	VG-5005	Exh.; w/Cast iron head; .3430" ID, 2.2500" O.A.L.
8	Guide	90-67	VG-5005H	Exh.; w/Cast iron head; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	90-67	VG-5005T	Exh.; w/Cast iron head; Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide	90-67	VG-5131T	Exh. & Int.; Universal; .4380" ID, 3.2500" O.A.L.
8	Guide	90-67	VG-5038	Int.; w/Cast iron head; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	90-67	VG-5005B	Exh.; w/Cast iron head; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-67	VG-5005TB	Exh.; w/Cast iron head; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-67	VG-5038B	Int.; w/Cast iron head; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-78	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	90-78	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
16	Spring	77-73	VS-677	Exh. & Int.; Corvette; Incl. damper; 2.0300" Free Height
8	Spring	77-72	VS-727	Exh.; Exc. Corvette; Incl. damper; 1.9100" Free Height
16	Spring	77-72	VS-739R	Exh. & Int.; Corvette; Optional-H/D; 2.0000" Free Height
16	Spring	72-67	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	71-67	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
16	Spring, Bulk	90-78	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	90-78	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
16	Spring, Bulk	77-73	VS-677B	Exh. & Int.; Corvette; Incl. damper; Carton of 250; 2.0300" Free Height
8	Spring, Bulk	77-72	VS-727B	Exh.; Exc. Corvette; Incl. damper; Carton of 250; 1.9100" Free Height
16	Spring, Bulk	77-72	VS-739RB	Exh. & Int.; Corvette; Optional-H/D; Carton of 300; 2.0000" Free Height
16	Spring, Bulk	72-67	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	71-67	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	80-77	ST-2003	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	77-68	ST-2092	Exh. & Int.; Sealed Power Premium design; Positive type; Rubber
16	Valve Stem Seal	76-67	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	76-67	MV-1903	Exh. & Int.; Use w/repair guide; Positive type; Rubber
8	Valve Stem Seal	90	MV-1888C	Int.; VIN Code "7"; O.E. design; Positive type; Viton®
16	Valve Stem Seal	90-67	MV-1233C	Exh. & Int.; O-Ring; Rubber
16	Valve Stem Seal	90-67	MV-1598C	Exh. & Int.; Umbrella type; Rubber
8	Valve Stem Seal	89-77	MV-1888C	Int.; VIN Code "7"; O.E. design; Positive type; Viton®
8	Valve Stem Seal Bulk	90	MV-1888	Int.; VIN Code "7"; O.E. design; Positive type; Carton of 50; Viton®
16	Valve Stem Seal Bulk	90-67	MV-1233	Exh. & Int.; O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-67	MV-1598	Exh. & Int.; Umbrella type; Carton of 100; Rubber
8	Valve Stem Seal Bulk	89-77	MV-1888	Int.; VIN Code "7"; O.E. design; Positive type; Carton of 50; Viton®
16	Valve Stem Seal Bulk	80-77	ST-2003BC	Exh. & Int.; Sealed Power Premium design; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	76-67	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-78	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-78	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	90-78	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	77-69	245-1687-2N Std Only	Corvette; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth

VALVE TRAIN

VALVE TRAIN

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5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

VALVE TRAIN		QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
		8	Exh.	77-69	245-1687-2 Std Only	Corvette; 1.6925" OD, 1.4375" ID, .2160" Depth		
		8	Exh.	77-69	245-1562-1N Std Only	Exc. Corvette; Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth		
		8	Exh.	77-69	245-1562-1 Std Only	Exc. Corvette; 1.5675" OD, 1.3125" ID, .2160" Depth		
		8	Int.	77-69	245-2062-1 Std Only	Exc. Corvette; 2.0680" OD, 1.8125" ID, .2480" Depth		
		8	Int.	77-69	245-2125-1 Std Only	Exc. Corvette; 2.1305" OD, 1.8125" ID, .2480" Depth		
		8		68-67	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth		
		8		68-67	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth		
		8	Int.	68-67	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth		
		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
		32	Keeper	90	VK-115	VIN Code "7"; 1 groove; Square cut key groove		
		32	Keeper	90	VK-115R	VIN Code "7"; 1 groove; Square cut key groove; Hardened		
		32	Keeper	89-67	VK-115	1 groove; Square cut key groove		
		32	Keeper	89-67	VK-115R	1 groove; Square cut key groove; Hardened		
		32	Keeper, Bulk	90	VK-115B	VIN Code "7"; 1 groove; Square cut key groove; Carton of 1000		
		32	Keeper, Bulk	89-67	VK-115B	1 groove; Square cut key groove; Carton of 1000		
		16	Spring Insert	90-67	259-203C	.015"; Carton of 100		
		16	Spring Insert	90-67	259-203B	.030"; Carton of 100		
		16	Spring Insert	90-67	259-203BRS	.030"; Carton of 500		
		16	Spring Insert	90-67	259-203A	.060"; Carton of 100		
		16	Spring Insert	90-67	259-203ARS	.060"; Carton of 500		
		QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
		8	Cast Piston	90	423NP Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.		
		8	Cast Piston	90	H345NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>		
		8	Cast Piston	90	H345NP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs		
		8	Cast Piston	90	H423NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>		
		8	Cast Piston	90	H423NP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs		
		8	Cast Piston	90	H597CP Std-20-30-40-60	VIN Codes "7" & "8"; Use w/E-530K ring set; Hypereutectic; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 1.550" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>		
		8	Cast Piston	89-86	423NP Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.		
		8	Cast Piston	89-86	H345NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>		
		8	Cast Piston	89-86	H345NP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs		
		8	Cast Piston	89-86	H423NCP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>		
		8	Cast Piston	89-86	H423NP Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs		
		8	Cast Piston	89-86	550P Std-20-30-40	VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.265" dia. w/shallow oil ring groove		
		8	Cast Piston	85-84	423NP Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.		

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# GM Car

**88** 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	85-84	<b>H345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	85-84	<b>H345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	85-84	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	85-84	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	85-81	<b>H618CP</b> Std-20-30-40-60	VIN Codes "L", "6" & "8"; Hypereutectic; For use in RV & Perf. Appl.; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	83-82	<b>423NP</b> Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	83-82	<b>H345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	83-82	<b>H345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	83-82	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	83-82	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	81-78	<b>423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	81-78	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	81-78	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	77-72	<b>423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	77-72	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	77-72	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	71	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	71	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	70-69	<b>345NP</b> Std-20-30-40-60-80	Exc. Corvette; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.

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5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 **88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	70-69	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	70-69	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	68-67	<b>345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston	68-67	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	68-67	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	90	<b>W423NP</b> Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	90	<b>WH345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	90	<b>WH345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	90	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	90	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	90	<b>WH597CP</b> Std-20-30-40-60	VIN Codes "7" & "8"; Use w/WE-530K ring set; Hypereutectic; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 1.550" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	89-86	<b>W423NP</b> Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	89-86	<b>WH345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	89-86	<b>WH345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	89-86	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	89-86	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	89-86	<b>W550P</b> Std-20-30-40	VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.265" dia. w/shallow oil ring groove
8	Cast Piston - Individual	85-84	<b>W423NP</b> Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	85-84	<b>WH345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>

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# GM Car

**88** 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	85-84	<b>WH345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	85-84	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	85-84	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	85-81	<b>WH618CP</b> Std-20-30-40-60	VIN Codes "L", "6" & "8"; Hypereutectic; For use in RV & Perf. Appl.; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	83-82	<b>W423NP</b> Std-20-30-40-60-80	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	83-82	<b>WH345NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	83-82	<b>WH345NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	83-82	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	83-82	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	81-78	<b>W423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	81-78	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	81-78	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	77-72	<b>W423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	77-72	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	77-72	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	71	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	71	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	70-69	<b>W345NP</b> Std-20-30-40-60-80	Exc. Corvette; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston - Individual	70-69	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>

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5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 **88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	70-69	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	68-67	<b>W345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston - Individual	68-67	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	68-67	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	90	<b>8KH345NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90	<b>8KH345NP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	90	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	90-67	<b>8KH423NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89-86	<b>8KH345NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89-86	<b>8KH345NP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	89-86	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	85-84	<b>8KH345NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	85-84	<b>8KH345NP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	85-84	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	85-81	<b>8KH618CP30</b> 30-40-60	VIN Codes "L", "6" & "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-82	<b>8KH345NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-82	<b>8KH345NP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	83-82	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	81-78	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	79-72	<b>8KH618CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>

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# GM Car

**88** 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	77-72	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	71	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	70-69	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	68-67	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	90	<b>8X423NP20</b> 20-30-40-60	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	89-86	<b>8X423NP20</b> 20-30-40-60	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	85-84	<b>8X423NP20</b> 20-30-40-60	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	83-82	<b>8X423NP20</b> 20-30-40-60	Exc. VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	81-78	<b>8X423NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	77-72	<b>8X423NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	70-69	<b>8X345NP20</b> 20-30-40-60	Exc. Corvette; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
1	Cast Piston Set w/Econ. Rings	68-67	<b>8X345NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Powerforged	90	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	89	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	88	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	87	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	86	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85-84	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85-81	<b>L-2304F</b> Std-30-60	VIN Codes "L", "6" & "8"; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85-81	<b>L-2256F</b> Std-20-30-40-60	VIN Codes "L", "6" & "8"; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	83	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	82	<b>L-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	81	<b>L-2403NF</b> Std-20-30-40-60	VIN Code "L"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Powerforged	80-78	<b>L-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	77-75	<b>L-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	74-73	<b>L-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72-71	<b>L-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72-71	<b>L-2304F</b> Std-30-60	11.0:1 C.R.; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-69	<b>L-2304F</b> Std-30-60	Corvette; Spec. Hi-Perf.; 11.0:1 C.R.; Replaces O.E. piston in less than full sets; Use w/premium fuel of 96 octane & higher; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-69	<b>L-2256F</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68-67	<b>L-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 90		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 89		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 88		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 87		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 86		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 85-84		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 85-81		<b>WL-2256F</b> Std-20-30-40-60	VIN Codes "L", "6" & "8"; For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 85-81		<b>WL-2304F</b> Std-30-60	VIN Codes "L", "6" & "8"; For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 83		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 82		<b>WL-2403NF</b> Std-20-30-40-60	Exc. VIN Code "8"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 81		<b>WL-2403NF</b> Std-20-30-40-60	VIN Code "L"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 80-78		<b>WL-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 77-75		<b>WL-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 74-73		<b>WL-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual 72-71		<b>WL-2403NF</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>

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# GM Car

**88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67**  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Forged Piston - Individual	72-71	<b>WL-2304F</b> Std-30-60	11.0:1 C.R.; Use in sets only; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-69	<b>WL-2304F</b> Std-30-60	Corvette; Spec. Hi-Perf.; 11.0:1 C.R.; Replaces O.E. piston in less than full sets; Use w/premium fuel of 96 octane & higher; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-69	<b>WL-2256F</b> Std-20-30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	68-67	<b>WL-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	85-81	<b>8KL2256F30</b> 30-40-60	VIN Codes "L", "6" & "8"; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	79-72	<b>8KL2256F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	70-69	<b>8KL2256F30</b> 30-40-60	Exc. Corvette; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	68-67	<b>8KL2256F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	<b>E-530K</b> Std-20-30-40-60	Use w/H597CP piston; 1-2.00MM, 1-1.50MM, 1-4.00MM
1	Premium Set	90-86	<b>E-377K</b> Std-20-30-40	.165" shallow oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-86	<b>E-251K</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-86	<b>E-251KC</b> Std-10-20-30-40-60	Use w/L-2403NF piston; 2-5/64, 1-3/16
1	Premium Set	85-67	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	85-67	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	85-67	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-86	<b>E-377X</b> Std-30-40	.165" shallow oil ring groove; 2-5/64, 1-3/16
1	Standard Set	90-86	<b>E-251X</b> Std-10-20-30-40-60-80	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Standard Set	85-67	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90	<b>WE-530K</b> Std-20-30	Use w/WH597P piston; 1-2.00MM, 1-1.50MM, 1-4.00MM
8	Premium Single Cylinder Set	90-86	<b>WE-377K</b> Std-20-30	.165" shallow oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-86	<b>WE-251K</b> Std-20-30-40-60	Use w/WL-2403NF piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-86	<b>WE-251KC</b> Std-20-30-40-60	Use w/WL-2403NF piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	85-67	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	85-67	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-86	<b>WE-377X</b> Std-30	.165" shallow oil ring groove; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-86	<b>WE-251X</b> Std-20-30-40-60-80	Use w/WL-2403NF piston; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	85-67	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-67	<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set	90-67	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-67	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	90-67	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings;</b> .010" O/S length flange brg.
1	Main Set	90-67	<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings;</b> w/.020" O/S OD
1	Rod Set	90-67	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-67	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	90-67	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	90-67	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	90-67	<b>8-2555CA60</b> 60	Unplated & resizeable
8	Rod Pair	90-67	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	90-67	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	90-67	<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set	90-67	<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set	90-67	<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set	90-67	<b>1811M</b> Std Only	Race Performance; "Big Block"; Split type design, 2.120" housing bore

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

		<b>ENGINE BEARINGS</b>				
<b>QTY</b>	<b>(cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam Set	90-67	<b>1750M</b> Std Only	2.030" housing bore		
<b>QTY</b>		<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-89	<b>224-43469V</b>	VIN Code "7"; High Volume, check pan for clearance; 3/4" inlet; Use w/steel guide		
1	Oil Pump	90-89	<b>224-43469</b>	VIN Code "7"; 3/4" inlet; w/nylon shaft guide		
1	Oil Pump	90-82	<b>224-4146A</b>	High Pressure; 5/8" inlet		
1	Oil Pump	90-82	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide		
1	Oil Pump	90-82	<b>224-4146</b>	5/8" inlet		
1	Oil Pump	81-71	<b>224-4146A</b>	Corvette; High Pressure; 5/8" inlet		
1	Oil Pump	81-71	<b>224-4146</b>	Exc. Corvette; 5/8" inlet		
1	Oil Pump	81-67	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide		
1	Oil Pump	70-69	<b>224-4146A</b>	Corvette; High Pressure; 5/8" inlet		
1	Oil Pump	70-69	<b>224-4146</b>	Exc. Corvette; 5/8" inlet		
1	Oil Pump	68-67	<b>224-4146</b>	5/8" inlet		
1	Inter. Shaft	90-67	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide		
1	Inter. Shaft	90-67	<b>224-6146</b>	Use w/nylon shaft guide		
1	Oil Pump Shaft Guide	90-67	<b>224-43343</b>	Nylon		
1	Screen Assy.	90-82	<b>224-1246</b>	5/8" inlet tube		
1	Screen Assy.	90-81	<b>224-14227</b>	Corvette; 5/8" inlet tube		
1	Screen Assy.	81-80	<b>224-1246</b>	Exc. Corvette; 5/8" inlet tube		
1	Screen Assy.	79-76	<b>224-1246</b>	5/8" inlet tube		
1	Screen Assy.	75-67	<b>224-14227</b>	Corvette; 5/8" inlet tube		
<b>QTY</b>		<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-89	<b>260-1269</b>	VIN Code "7"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-87	<b>260-1478</b>	VIN Code "8"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	88-86	<b>260-1268</b>	VIN Code "6"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	86	<b>260-1478</b>	VIN Code "8"; w/Alum. heads; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	86	<b>260-1268</b>	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	85	<b>260-1045</b>	Exc. VIN Code "8"; Premium valve stem seals incl.		
1	Kit Gasket Set	84	<b>260-1479</b>	Corvette; w/CFI; Premium valve stem seals incl.		
1	Kit Gasket Set	84	<b>260-1045</b>	Exc. VIN Code "8"; Premium valve stem seals incl.		
1	Kit Gasket Set	83	<b>260-1045</b>	Exc. VIN Code "8"; Premium valve stem seals incl.		
1	Kit Gasket Set	82	<b>260-1479</b>	Corvette; w/CFI; Premium valve stem seals incl.		
1	Kit Gasket Set	82	<b>260-1045</b>	Exc. VIN Code "8"; Premium valve stem seals incl.		
1	Kit Gasket Set	81-80	<b>260-1045</b>	Premium valve stem seals incl.		
1	Kit Gasket Set	80-67	<b>260-1079</b>	Premium Set; Performance head gskt. incl.; Performance manifold gskts. incl.; Complete set		
1	Kit Gasket Set	79-67	<b>260-1000</b>			
2	Head Bolt Set	90-67	<b>260-2500</b>			
<b>QTY</b>		<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-88	<b>381-8059</b>	VIN Code "8"		
1	Brass Block Plug Kit	87-86	<b>381-8059</b>	VIN Codes "6" & "8"; Export		
1	Brass Block Plug Kit	85-67	<b>381-8007</b>			
1	Brass Block Plug Kit	81-80	<b>381-8059</b>	VIN Code "6"		
1	Brass Block Plug Kit	79-78	<b>381-8059</b>	VIN Codes "H" & "L"		
1	Steel Block Plug Kit	90-88	<b>381-4011</b>			
1	Steel Block Plug Kit	87-83	<b>381-4011</b>			
1	Steel Block Plug Kit	82-80	<b>381-4011</b>			
1	Steel Block Plug Kit	79-78	<b>381-4011</b>			
1	Steel Block Plug Kit	77-76	<b>381-4011</b>			
1	Steel Block Plug Kit	75-67	<b>381-4011</b>			
<b>K</b>	<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>	<b>K</b>
<b>ITS</b>	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>	<b>ITS</b>
	90	VIN Code "8"; Use w/H597CP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; For pistons w/1-2.00MM, 1-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains	<b>205-6152</b> <b>205-6152M</b>	----- -----	

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# GM Car

**88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67**  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Code "8"; Use w/H597CP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; For pistons w/1-2.00MM, 1-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains	205-6279 205-6279M	----- -----
90-89	VIN Code "7"; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6038 205-6038M	205-1038 205-1038M
90-89	VIN Code "7"; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6156 205-6156M	205-1156 205-1156M
90-87	VIN Code "8"; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6151 205-6151M	205-1151 205-1151M
88-87	VIN Code "6"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6037 205-6037M	205-1037 205-1037M
88-87	VIN Code "6"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6153 205-6153M	205-1153 205-1153M
86	VIN Code "6"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6037 205-6037M	205-1037 205-1037M
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6037 205-6037M	205-1037 205-1037M
86	VIN Code "8"; w/Alum. heads; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6151 205-6151M	205-1151 205-1151M
86	VIN Code "6"; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6153 205-6153M	205-1153 205-1153M
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-6153 205-6153M	205-1153 205-1153M
85-84	Exc. VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-658 205-658M	205-158 205-158M
84	Corvette; w/CFI; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6149 205-6149M	205-1149 205-1149M
84	Corvette; w/CFI; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	----- -----	205-1276 205-1276M
83	Exc. VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-658 205-658M	205-158 205-158M
82	Corvette; w/CFI; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6149 205-6149M	205-1149 205-1149M
82	Corvette; w/CFI; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	----- -----	205-1276 205-1276M
82	Exc. VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-658 205-658M	205-158 205-158M
81-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-658 205-658M	205-158 205-158M
79-67	Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-630 205-630M	205-130 205-130M

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5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 **88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

K I T S	OVERHAUL KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90	VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block	BK-6088	----
	90	VIN Code "8"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	BKP-6088	----
	90	VIN Code "7"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. H597CP piston	Block	BK-6089	----
	90	VIN Code "8"; w/.165" shallow oil ring groove; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Pistons	MK-6151A	MK-1151A
	90	VIN Code "8"; w/rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master	MKP-6152A	----
	90	VIN Code "8"; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Pistons	MK-6152A	----
	90-89	VIN Code "7"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 423NP piston	Block	BK-6084	----
	90-88	VIN Code "8"; Incl. rlr. lifters; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Incl. High Pressure 5/8" inlet oil pump; w/.200" deep oil ring groove	Mster w/Frg. Pstn. Prm. Rings	MKF-6151A	----
	89-88	VIN Code "8"; w/.165" shallow oil ring groove; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Pistons	MK-6151A	MK-1151A
	89-88	VIN Code "8"; Incl. 550P piston; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master	MKP-6151A	MKP-1151A
	89-88	VIN Code "8"; Incl. 550P piston; Incl. rlr. lifters; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Rods & Mains	505-6151A	505-1151A
	87	VIN Code "8"; w/.165" shallow oil ring groove; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Pistons	MK-6151A	MK-1151A
	87	VIN Code "8"; Incl. rlr. lifters; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Incl. High Pressure 5/8" inlet oil pump; w/.200" deep oil ring groove	Mster w/Frg. Pstn. Prm. Rings	MKF-6151A	----
	87	VIN Code "8"; Incl. 550P piston; Incl. rlr. lifters; Incl. hardened cam sprocket; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master	MKP-6151A	MKP-1151A
	87	VIN Code "8"; Incl. 550P piston; Incl. rlr. lifters; Incl. hardened cam sprocket; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure 5/8" inlet oil pump	Master w/o Rods & Mains	505-6151A	505-1151A

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# GM Car

**88 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67**  
 (cont.) VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.165" shallow oil ring groove; Incl. flat lifters; Incl. <b>A-Series aluminum bearings</b> ; Incl. High Pressure 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6153A	MK-1153A
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 550P piston; Incl. flat lifters; Incl. <b>A-Series aluminum bearings</b> ; Incl. High Pressure 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6153A	----
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 550P piston; Incl. flat lifters; Incl. <b>A-Series aluminum bearings</b> ; Incl. High Pressure 5/8" inlet oil pump; w/.405" tooth width sprocket; Freeze plugs not incl.	Master	----	MKP-1153A
86	VIN Code "8"; w/Cast iron heads; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 550P piston; Incl. flat lifters; Incl. High Pressure 5/8" inlet oil pump; w/.405" tooth width sprocket; w/.165" shallow oil ring groove	Master w/o Rods & Mains	505-6153A	505-1153A
84	VIN Code "8"; Corvette; w/CFI; w/flat lifters; Incl. <b>A-Series aluminum bearings</b> ; w/.405" tooth width sprocket; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Master w/o Pistons	----	MK-1149C
81	VIN Code "L"; Exc. Corvette; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----
81-80	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-658A MK-658A	MKP-158A MK-158A
81-80	Exc. Corvette; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-658A	505-158A
80	Exc. Corvette; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----
79	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
79	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C
78	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
78	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C
77	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
77	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C
76	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
76	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C
75-73	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
75-73	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C
72	Exc. Corvette; Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-630C MK-630C	MKP-130C MK-130C
72	Exc. Corvette; Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	MKF-630C 505-630C	---- 505-130C

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-67 88**

VIN Codes "H" 1972-78, "J" 1972-75, "K" 1972-74, "L" 1972-85, "T" 1973-75, "V" 1976, "X" 1976-77, "4" (cont.) 1978-79, "6" 1980-88, "7" 1989-93, "8" 1979-80 & 1982-92

<b>K I T S</b>	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	71	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings	<b>MKF-630C</b>	----	
	71-69	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-630C</b>	<b>MK-130C</b>	
	70-69	Exc. Corvette; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-630D</b>	<b>MKP-130D</b>	
	70-69	Exc. Corvette; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630D</b> <b>505-630D</b>	---- <b>505-130D</b>	
	68-67	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-630C</b>	<b>MK-130C</b>	
	68-67	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-630D</b>	<b>MKP-130D</b>	
	68-67	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630D</b> <b>505-630D</b>	---- <b>505-130D</b>	

**5.7L 350 DOHC V8 (32 Valve), 4" Bore (Mercury Marine Eng.) 1990 89**

VIN Code "J" 1990-95 (LT-5)

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Lifter	90	<b>HT-2236</b> Std Only	Hyd. bucket type lifter
32	Lifter, Bulk	90	<b>HT-2236B</b> Std Only	Hyd. bucket type lifter; Carton of 192
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	90	<b>VK-115</b>	Exh. & Int.; 1 groove; Square cut key groove
32	Keeper	90	<b>VK-115R</b>	Exh. & Int.; 1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90	<b>VK-115B</b>	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	90	<b>381-8059</b>	

**5.7L 350 OHV Diesel V8 (Oldsmobile), 4.057" Bore 1985-78 90**

VIN Code "N" 1978-85

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	85-78	<b>KT3-180S</b>	Cam & crank gears not sold separately; Incl. (1) 222-180, (1) 223-498, (1) 223-503
1	Timing Chain	85-78	<b>222-180</b>	48 Links
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Lifter	85-81	<b>HT-2104</b> Std Only	Hyd. rlr.
16	Lifter, Bulk	85-81	<b>HT-2104B</b> Std Only	Hyd. rlr.; Carton of 113
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	85-81	<b>RP-3244</b>	w/rlr. lifters; 7.7000" O.A.L.
16	Push Rod	80	<b>RP-3205</b>	8.2480" O.A.L.
16	Push Rod	79-78	<b>RP-3174</b>	8.2340" O.A.L.
16	Push Rod, Bulk	85-81	<b>BRP-3244</b>	w/rlr. lifters; Carton of 100; 7.7000" O.A.L.
16	Push Rod, Bulk	80	<b>BRP-3205</b>	Carton of 100; 8.2480" O.A.L.
16	Push Rod, Bulk	79-78	<b>BRP-3174</b>	Carton of 100; 8.2340" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	85-80	<b>R-882</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge
8	Arm Assy.	79-78	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	85-80	<b>R-882B</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32
8	Arm Assy., Bulk	79-78	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	85-80	<b>R-882A</b>	
16	Arm	79-78	<b>R-856A</b>	
16	Arm, Bulk	85-80	<b>R-882AB</b>	Carton of 64
8	Pivot	85-78	<b>MR-1903</b>	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	85-78	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	85-78	<b>MV-1819C</b>	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	85-78	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	85-78	<b>MV-1819</b>	Int.; Umbrella type; Carton of 50; Nylon
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	85-78	<b>245-1687-16</b> Std Only	1.6925" OD, 1.4375" ID, .1860" Depth
8	Int.	85-78	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth

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# GM Car

## 90 5.7L 350 OHV Diesel V8 (Oldsmobile), 4.057" Bore 1985-78

(cont.) VIN Code "N" 1978-85

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	85-78	VK-115	1 groove; Square cut key groove
32	Keeper	85-78	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	85-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	85-78	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	85-78	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	85-78	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	85-78	259-303ARS	.060"; ID .703"; Carton of 500
8	Rotocap	85-78	RC-140	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	84-82	3049Y20	1.196" rod eye bore; O.E. No. 22515213
8	Pin Bushing	81-78	2564V20	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	85-78	4294M	Std-1-10-20-30
1	Rod Set	85-78	8-3045A	Std-10-20-30-40
1	Rod Set	85-78	8-3045A10X2	10X2-20X2-30X2
1	Rod Set	85-78	8-3045APA	Std-1
1	Rod Set	85-78	8-3045APA10X2	10X2-20X2-30X2
8	Rod Pair	85-78	3045APA	Std Only
1	Cam Set	85-78	1466M	Std Only
1	Cam Set	85-78	1787M	Std Only
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Inter. Shaft	85-78	224-61203	
1	Screen Assy.	85-78	224-11203	5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	85-81	260-1249	w/Internal EGR; Premium valve stem seals incl.; Head gskts. not incl.
1	Kit Gasket Set	85-78	260-1617	Int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. std. thickness head gskts.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	85-78	381-8020	
1	Steel Block Plug Kit	85-78	381-4020	

## 91 5.7L 350 OHV V8 (Oldsmobile), 4.057" Bore 1980-68

VIN Codes "B" 1978-79, "G" 1977, "H" 1972-73, "K" 1972-75, "M" 1972-74, "R" 1972-80, "8" 1980

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	80-68	KT3-498SA3	Incl. (1) 222-498, (1) 223-348, (1) 223-349
1	Timing Set w/Gaskets	80-68	CTS-1005	
1	Timing Chain	80-68	222-498	48 Links
1	Crank Sprocket	80-68	223-349	18 Teeth
1	Cam Sprocket	80-68	223-348	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	80-73	CS-707	
1	Camshaft	72	CS-651	VIN Codes "K", "M" & "R"; w/M/T
1	Camshaft	72-71	CS-707	w/A/T
1	Camshaft	71	CS-651	Eng. Codes "QN", "QO" & "QP"; w/M/T
1	Camshaft	70	CS-707	w/A/T; Exc. O.A.I.
1	Camshaft	69	CS-651	
1	Camshaft	69-68	CS-707	Exc. O.A.I.
1	Camshaft	68	CS-651	Police
1	Performance Cam	70	CS-176R	w/O.A.I.; Pro-5000 Perf. Cam; Hyd.; Duration at .050: 232 Int., 232 Exh.; Valve lift .4740" Int., .4740" Exh.; Lobe Separation 113 Degrees
1	Performance Cam	69-68	CS-176R	w/O.A.I.; Pro-5000 Perf. Cam; Hyd.; Duration at .050: 232 Int., 232 Exh.; Valve lift .4740" Int., .4740" Exh.; Lobe Separation 113 Degrees
16	Lifter	80-68	HT-951	Std Only
16	Lifter, Bulk	80-68	HT-951B	Std Only
1	Prelube	80-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80-73	KC-707	Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	72-71	KC-707	w/A/T; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	70	KC-707	Exc. O.A.I.; w/A/T; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	69-68	KC-707	Exc. O.A.I.; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-73	KCT-707	Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B

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**5.7L 350 OHV V8 (Oldsmobile), 4.057" Bore 1980-68 91**

VIN Codes "B" 1978-79, "G" 1977, "H" 1972-73, "K" 1972-75, "M" 1972-74, "R" 1972-80, "8" 1980 (cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	72	<b>KCT-651</b>	VIN Codes "K", "M" & "R"; w/M/T; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-71	<b>KCT-707</b>	w/A/T; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	<b>KCT-651</b>	Eng. Codes "QN", "QO" & "QP"; w/M/T; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	70	<b>KCT-707</b>	Exc. O.A.I.; w/A/T; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	69	<b>KCT-651</b>	Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	<b>KCT-707</b>	Exc. O.A.I.; Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	68	<b>KCT-651</b>	Police; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	80	<b>RP-3205</b>	8.2480" O.A.L.
16	Push Rod	79-68	<b>RP-3174</b>	8.2340" O.A.L.
16	Push Rod, Bulk	80	<b>BRP-3205</b>	Carton of 100; 8.2480" O.A.L.
16	Push Rod, Bulk	79-68	<b>BRP-3174</b>	Carton of 100; 8.2340" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	80	<b>R-882</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge
8	Arm Assy.	79-68	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	80	<b>R-882B</b>	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32
8	Arm Assy., Bulk	79-68	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	80	<b>R-882A</b>	
16	Arm	79-68	<b>R-856A</b>	
16	Arm, Bulk	80	<b>R-882AB</b>	Carton of 64
8	Pivot	80-68	<b>MR-1903</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	80-77	<b>V-2061</b> Std-15	Chrome plated stem; 1.5020" Head Dia., .3423" Stem Dia., 4.6880" O.A.L.
8	Exhaust	76-73	<b>V-2028</b> Std Only	Chrome plated stem; 1.6220" Head Dia., .3423" Stem Dia., 4.6750" O.A.L.
8	Exhaust	72	<b>V-1942</b> Std Only	1.6220" Head Dia., .3423" Stem Dia., 4.7080" O.A.L.
8	Exhaust	71-68	<b>V-1772</b> Std Only	w/O.A.I.; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	71-68	<b>V-1770</b> Std Only	Exc. O.A.I.; 1.5620" Head Dia., .3422" Stem Dia., 4.7280" O.A.L.
8	Exhaust, Bulk	80-77	<b>V-2061B15</b> 15	Chrome plated stem; Carton of 25; 1.5020" Head Dia., .3573" Stem Dia., 4.6880" O.A.L.
8	Intake	80-77	<b>V-2304</b> Std Only	Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	80-77	<b>V-1775</b> Std Only	1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	76-73	<b>V-1995</b> Std Only	1.8750" Head Dia., .3428" Stem Dia., 4.6670" O.A.L.
8	Intake	72	<b>V-1773</b> Std Only	1.8760" Head Dia., .3425" Stem Dia., 4.7382" O.A.L.
8	Intake	71-68	<b>V-1775</b> Std Only	w/O.A.I.; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	71-68	<b>V-1773</b> Std Only	Exc. O.A.I.; 1.8760" Head Dia., .3425" Stem Dia., 4.7382" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	80-68	<b>VG-5038</b>	.3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	80-68	<b>VG-5038B</b>	Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	80-73	<b>VS-721</b>	Exh. & Int.; 1.9600" Free Height
8	Spring	72	<b>VS-1618R</b>	Exh.; Incl. damper; 1.9940" Free Height
8	Spring	72	<b>VS-721</b>	Int.; 1.9600" Free Height
16	Spring	71-68	<b>VS-1618R</b>	Exh. & Int.; Incl. damper; 1.9940" Free Height
16	Spring, Bulk	80-73	<b>VS-721B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	72	<b>VS-721B</b>	Int.; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	80-68	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	80-68	<b>MV-1819C</b>	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	80-68	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	80-68	<b>MV-1819</b>	Int.; Umbrella type; Carton of 50; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	80-77	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	80-77	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	76-73	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

**91 5.7L 350 OHV V8 (Oldsmobile), 4.057" Bore 1980-68**  
 (cont.) VIN Codes "B" 1978-79, "G" 1977, "H" 1972-73, "K" 1972-75, "M" 1972-74, "R" 1972-80, "8" 1980

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Int.	72-68	<b>245-2000-1</b> Std Only	Exc. O.A.I.; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	71-68	<b>245-1750-2N</b> Std Only	w/O.A.I.; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	71-68	<b>245-1687-2N</b> Std Only	Exc. O.A.I.; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	71-68	<b>245-1687-2</b> Std Only	Exc. O.A.I.; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	71-68	<b>245-1750-2</b> Std Only	W/O.A.I.; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	71-68	<b>245-2125-2</b> Std Only	w/O.A.I.; 2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	80-68	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	80-68	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	80-68	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	80-68	<b>259-303C</b>	.015"; ID .703"; Carton of 100
16	Spring Insert	80-68	<b>259-303B</b>	.030"; ID .703"; Carton of 100
16	Spring Insert	80-68	<b>259-303A</b>	.060"; ID .703"; Carton of 100
16	Spring Insert	80-68	<b>259-303ARS</b>	.060"; ID .703"; Carton of 500
8	Rotocap	80-68	<b>RC-140</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	80	<b>332AP</b> Std-20-30-40-60	VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston	79-78	<b>332AP</b> Std-20-30-40-60	VIN Codes "B" & "R"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston	77-75	<b>332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston	74-72	<b>332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston	71-68	<b>332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	80	<b>W332AP</b> Std-20-30-40-60	VIN Code "8"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	79-78	<b>W332AP</b> Std-20-30-40-60	VIN Codes "B" & "R"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	77-75	<b>W332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	74-72	<b>W332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	71-68	<b>W332AP</b> Std-20-30-40-60	Low comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.596" CD, .9804" Pin Dia., Recessed Head .215" deep x 2.920" dia. - 7.9:1 C.R.
8	Powerforged	71-68	<b>L-2320F</b> Std-30	w/O.A.I.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.612" CD, .9804" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-68	<b>L-2321F30</b> 30	High comp.; 10.25:1 C.R.; Exc. O.A.I.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.612" CD, .9805" Pin Dia., Recessed Head .076" deep x 2.440" dia. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71-68	<b>WL-2320F</b> Std-30	w/O.A.I.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.612" CD, .9804" Pin Dia., Flat Head. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-68	<b>WL-2321F30</b> 30	High comp.; 10.25:1 C.R.; Exc. O.A.I.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.612" CD, .9805" Pin Dia., Recessed Head .076" deep x 2.440" dia. <b>DurOshield® skirt coated piston.</b>
8	Pin Bushing	80	<b>3049YA20</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	80-68	<b>E-297K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	80-68	<b>E-297X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	80-68	<b>WE-297K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	80-68	<b>WE-297X</b> Std-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	80-68	<b>4281M</b> Std-1-10-20-30-40	3.824" max. flange OD
1	Rod Set	80-68	<b>8-3045A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>

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**5.7L 350 OHV V8 (Oldsmobile), 4.057" Bore 1980-68 91**

VIN Codes "B" 1978-79, "G" 1977, "H" 1972-73, "K" 1972-75, "M" 1972-74, "R" 1972-80, "8" 1980 (cont.)

QTY	ENGINE BEARINGS				DESCRIPTION	
	(cont.)	YEARS	PART NO.			
1	Rod Set	80-68	<b>8-3045A10X2</b>	10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore	
1	Rod Set	80-68	<b>8-3045APA</b>	Std-1	Overplated alum. alloy	
1	Rod Set	80-68	<b>8-3045APA10X2</b>	10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy	
8	Rod Pair	80-68	<b>3045A</b>	Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
8	Rod Pair	80-68	<b>3045APA</b>	Std Only	Overplated alum. alloy	
1	Cam Set	80-78	<b>1466M</b>	Std Only	Full round design	
1	Cam Set	80-78	<b>1787M</b>	Std Only	O.E. split type design	
1	Cam Set	77-68	<b>1234M</b>	Std Only	Babbitt material; Full round design	
1	Cam Set	77-68	<b>1789M</b>	Std Only	O.E. split type design	
QTY	OIL PUMP				DESCRIPTION	
1	Oil Pump	80-77	<b>224-41203V</b>		High Volume, check pan for clearance; Use w/224-11203V screen	
1	Oil Pump	80-68	<b>224-41203</b>			
1	Inter. Shaft	80-68	<b>224-61203</b>			
1	Screen Assy.	80-77	<b>224-11203V</b>		Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	80-77	<b>224-11203</b>		5/8" inlet tube	
1	Screen Assy.	76-68	<b>224-11203V</b>		Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	76-68	<b>224-11203</b>		5/8" inlet tube	
QTY	GASKETS				DESCRIPTION	
1	Kit Gasket Set	80-77	<b>260-1022</b>		Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	76-68	<b>260-1008</b>		Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	80-73	<b>260-4001</b>			
1	Valley Pan Gasket Set	72-68	<b>260-4010</b>			
QTY	FREEZE PLUGS				DESCRIPTION	
1	Brass Block Plug Kit	80-68	<b>381-8020</b>			
1	Steel Block Plug Kit	80-68	<b>381-4020</b>			
YEARS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION					
80	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				205-6309M	205-1309M
80	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.				205-6309	205-1309
79-78	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				205-6309M	205-1309M
79-78	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.				205-6309	205-1309
77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				205-6309M	205-1309M
77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.				205-6309	205-1309
76-68	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				205-6310M	205-1310M
76-68	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.				205-6310	205-1310
YEARS	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION					
80	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				MK-638A	MK-138A
80	VIN Code "8"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				MKP-638A	MKP-138A
80	VIN Code "8"; Int. manifold gskt. not incl.; Premium valve stem seals incl.				----	505-138A
79-78	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings;</b> w/3.824" max. brg. flange OD; Premium valve stem seals incl.				MK-638A	MK-138A

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# GM Car

## 91 5.7L 350 OHV V8 (Oldsmobile), 4.057" Bore 1980-68 (cont.) VIN Codes "B" 1978-79, "G" 1977, "H" 1972-73, "K" 1972-75, "M" 1972-74, "R" 1972-80, "8" 1980

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION	Master		
79-78	VIN Codes "B" & "R"; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master	MKP-638A	MKP-138A
79-78	VIN Codes "B" & "R"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	----	505-138A
76-73	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master w/o Pistons	MK-639C	MK-139C
76-73	Low comp.; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master	MKP-639C	MKP-139C
76-73	Low comp.; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-639C	505-139C
72-71	w/A/T; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master w/o Pistons	MK-639C	MK-139C
72-71	Low comp.; w/A/T; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master	MKP-639C	MKP-139C
72-71	Low comp.; w/A/T; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-639C	505-139C
70	Exc. O.A.I.; w/A/T; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master w/o Pistons	MK-639C	MK-139C
70	Low comp.; Exc. O.A.I.; w/A/T; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master	MKP-639C	MKP-139C
70	Low comp.; Exc. O.A.I.; w/A/T; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-639C	505-139C
69-68	Exc. O.A.I.; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master w/o Pistons	MK-639C	MK-139C
69-68	Low comp.; Exc. O.A.I.; Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Master	MKP-639C	MKP-139C
69-68	Low comp.; Exc. O.A.I.; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	505-639C	505-139C

## 92 6.0L 364 OHV V8 (Buick), 4.125" Bore 1961-57

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	61-57	222-491	52 Links
1	Crank Sprocket	61-57	223-276	19 Teeth
1	Cam Sprocket	61-57	223-332N	Nylon; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	61-57	CS-564	
16	Lifter	61-57	HT-896 Std Only	Hyd.
16	Lifter, Bulk	61-57	HT-896B Std Only	Hyd.; Carton of 126
1	Prelube	61-57	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	61-57	RP-3300	8.4460" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	61-59	V-1654 Std Only	1.5000" Head Dia., .3715" Stem Dia., 4.7880" O.A.L.
8	Intake	61-59	V-1415 Std Only	1.8740" Head Dia., .3726" Stem Dia., 4.7953" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	61-57	VG-628	.3745" ID, 2.7500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	61-57	VS-527	Inner; 2.0100" Free Height
16	Spring	61-57	VS-612	Outer; 2.0700" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	61-57	ST-2014	Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal Bulk	61-57	ST-2014BC	Positive type; Installation requires valve guide machining; Carton of 100; PTFE

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**GM Car**

**6.0L 364 OHV V8 (Buick), 4.125" Bore 1961-57 92 (cont.)**

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	61-59	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	61-59	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	61-59	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	61-57	VK-97	
16	Spring Insert	61-57	259-100B	.030"; Carton of 100
16	Spring Insert	61-57	259-100A	.060"; Carton of 100
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	61-57	E-243K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	61-57	E-243X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	61-57	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	61-57	WE-243X Std-20-30-40-60	2-5/64, 1-3/16

**6.0L 365 OHV V8 (Cadillac), 4" Bore 1958-56 93**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	57-56	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	57-56	223-256	18 Teeth
1	Cam Sprocket	57-56	223-255A	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	57-56	CS-256	
16	Lifter	58	HT-896 Std Only	Hyd.
16	Lifter	57	HT-896 Std Only	From Eng. Ser. No. 42398; Hyd.
16	Lifter, Bulk	58	HT-896B Std Only	Hyd.; Carton of 126
16	Lifter, Bulk	57	HT-896B Std Only	From Eng. Ser. No. 42398; Hyd.; Carton of 126
1	Prelube	57-56	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	56	V-1099 Std Only	1.5630" Head Dia., .3420" Stem Dia., 4.6660" O.A.L.
8	Intake	56	V-1100 Std Only	1.7500" Head Dia., .3420" Stem Dia., 4.6450" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	57-56	VG-503	.3450" ID, 2.2660" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	57	VS-485	2.2500" Free Height
16	Spring	56	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	57-56	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	57-56	ST-2092	Positive type; Rubber
16	Valve Stem Seal Bulk	57-56	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	57-56	VK-115	1 groove; Square cut key groove
32	Keeper	57-56	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	57-56	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	57-56	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	57-56	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	57-56	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	57-56	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	57-56	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	57-56	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	58-56	8-2120CP Std-10-20	
8	Rod Pair	58-56	2120CP Std-10-20-30	

**6.0L 368 OHV V8 (Cadillac), 3.8" Bore 1984-80 94  
VIN Codes "6" 1980-84, "9" 1980-84**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	84-80	KT3-498SA1	Incl. (1) 222-498, (1) 223-404, (1) 223-405
1	Timing Chain	84-80	222-498	48 Links
1	Crank Sprocket	84-80	223-405	18 Teeth
1	Cam Sprocket	84-80	223-404	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-80	CS-656	VIN Code "6"
16	Lifter	84-80	HT-969 Std Only	Hyd.; w/.440" wide oil groove
16	Lifter, Bulk	84-80	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	82-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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## 94 6.0L 368 OHV V8 (Cadillac), 3.8" Bore 1984-80

(cont.) VIN Codes "6" 1980-84, "9" 1980-84

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-80	KC-656	VIN Code "6"; Hyd.; Incl. (1) CS-656, (16) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-80	KCT-656	VIN Code "6"; Hyd.; Incl. (1) CS-656, (16) HT-969, (1) KT3-498SA1, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	84-80	RP-3178	10.1980" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	84-80	VG-5002	Exh. & Int.; .3420" ID, 3.0600" O.A.L.
16	Guide	84-80	VG-5002T	Exh. & Int.; Threaded; .3430" ID, 3.0630" O.A.L.
16	Guide, Bulk	84-80	VG-5002B	Exh. & Int.; Carton of 50; .3420" ID, 3.0600" O.A.L.
16	Guide, Bulk	84-80	VG-5002TB	Exh. & Int.; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	84-80	VS-485	2.2500" Free Height
16	Retainer	84-80	VSR-7013	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	84-80	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	84-80	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	84-80	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	84-80	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	84-80	VK-115	1 groove; Square cut key groove
32	Keeper	84-80	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	84-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	84-80	259-203C	.015"; Carton of 100
16	Spring Insert	84-80	259-203B	.030"; Carton of 100
16	Spring Insert	84-80	259-203BRS	.030"; Carton of 500
16	Spring Insert	84-80	259-203A	.060"; Carton of 100
16	Spring Insert	84-80	259-203ARS	.060"; Carton of 500
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-80	4906MA Std-10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set	84-80	7430MA40 40	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Rod Set	84-80	8-3345P Std-1-10-20-30-40	
8	Rod Pair	84-80	3345P Std-1-10-20-30-40	
1	Cam Set	84-80	1216M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	84-82	224-43417	
1	Oil Pump	81-80	224-43417	Exc. Eldorado & Seville
1	Pump Repair Kit	84-82	224-5128	
1	Pump Repair Kit	81-80	224-5128	Exc. Eldorado & Seville
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	84-80	260-1481	Int. manifold gskt. not incl.; RTV sealant for plastic oil pan not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	84-80	260-4015	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	84-80	381-8004	

## 95 6.1L 370 OHV V8 (Pontiac), 4.0625" Bore 1958-57

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	58-57	CS-187	w/M/T; Exc. Police
16	Lifter	58	HT-951 Std Only	Hyd.
16	Lifter, Bulk	58	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	58-57	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	58	KC-187	w/M/T; Exc. Police; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	58	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	58	RP-3028	9.1360" O.A.L.
16	Push Rod, Bulk	58	BRP-3028	Carton of 100; 9.1360" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	58-57	R-848	Incl. arm & ball
16	Arm	58-57	R-848A	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	58	VG-5037	Exh.; .3420" ID, 2.7500" O.A.L.
8	Guide	58	VG-5075T	Exh.; Threaded; .3440" ID, 2.8750" O.A.L.

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# GM Car

## 6.1L 370 OHV V8 (Pontiac), 4.0625" Bore 1958-57 **95**

(cont.)

VALVE TRAIN	QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Guide	58	VG-5034	Int.; Cut to fit; .3430" ID, 2.5000" O.A.L.
	8	Guide	58	VG-5072	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.
	8	Guide, Bulk	58	VG-5075TB	Exh.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.
	8	Guide, Bulk	58	VG-5072B	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	16	Spring	58	VS-445	Inner; 1.8120" Free Height
	16	Spring	58	VS-446	Outer; 1.9800" Free Height
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	16	Valve Stem Seal	58	ST-2003	Positive type; Installation requires valve guide machining; Rubber
	16	Valve Stem Seal	58	ST-2092	Positive type; Rubber
	16	Valve Stem Seal	58-57	MV-1233C	O-Ring; Rubber
	16	Valve Stem Seal Bulk	58	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
	16	Valve Stem Seal Bulk	58-57	MV-1233	O-Ring; Carton of 100; Rubber
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	58	VK-115	1 groove; Square cut key groove
	32	Keeper	58	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	58	VK-115B	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	58	259-301A	.060"; Carton of 100
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	58	E-253K30 30-40-60	2-5/64, 1-3/16
	1	Standard Set	58	E-253X Std-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	58	WE-253K30 30	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	58	WE-253X30 30	2-5/64, 1-3/16
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Inter. Shaft	58	224-61236	

## 6.1L 371 OHV V8 (Oldsmobile), 4" Bore 1960-57 **96**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	60-57	222-494	48 Links
	1	Cam Sprocket	58-57	223-245	1/2" pitch; 48 Teeth
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod	60-59	RP-3024	9.2850" O.A.L.
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	60-57	VG-584	Exh.; .3973" ID, 2.3800" O.A.L.
	8	Guide	60-57	VG-538	Int.; .3450" ID, 2.3750" O.A.L.
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	60-58	VS-526	2.2500" Free Height
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	60-57	VK-115	1 groove; Square cut key groove
	32	Keeper	60-57	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	60-57	VK-115B	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	60-57	259-303C	.015"; ID .703"; Carton of 100
	16	Spring Insert	60-57	259-303B	.030"; ID .703"; Carton of 100
	16	Spring Insert	60-57	259-303A	.060"; ID .703"; Carton of 100
	16	Spring Insert	60-57	259-303ARS	.060"; ID .703"; Carton of 500
	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	8	Pin Bushing	60-59	1559VA	1.037" OD
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	60-57	E-248K Std-20-30-40-60	1-5/64, 1-3/32, 1-3/16
	1	Standard Set	60-57	E-248X Std-30-40-60	1-5/64, 1-3/32, 1-3/16
	8	Premium Single Cylinder Set	60-57	WE-248K Std-30	1-5/64, 1-3/32, 1-3/16
	8	Standard Single Cylinder Set	60-57	WE-248X Std-30-40	1-5/64, 1-3/32, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Rod Set	60-59	8-3345P Std-1-10-20-30-40	
	8	Rod Pair	60-59	3345P Std-1-10-20-30-40	
	1	Cam Set	60-59	1164M Std Only	

## 6.4L 389 OHV V8 (Pontiac), 4.0625" Bore 1966-59 **97**

BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	66-59	KT3-350S	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
	1	Timing Chain	66-59	222-350	60 Links
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	66	CS-641	Eng. Codes "SE", "WW", "YL", "YW" & "YX"; 10.5:1 C.R.

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## 97 6.4L 389 OHV V8 (Pontiac), 4.0625" Bore 1966-59

(cont.)

VALVE TRAIN

VALVE TRAIN

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	66	CS-641	Eng. Codes "YU" & "YV"; 10.5:1 C.R.
1	Camshaft	66-65	CS-641	Eng. Codes "WA", "WB", "WC", "XA", "XB", "YA", "YC" & "YD"; 10.5:1 C.R.
1	Camshaft	66-65	CS-641	Eng. Codes "WE", "WT", "XC", "YE", "YF" & "YS"; 10.5:1 C.R.
1	Camshaft	65	CS-641	Eng. Codes "WD" & "YP"; 10.5:1 C.R.
1	Camshaft	65	CS-641	Eng. Codes "YB" & "YN"; 10.5:1 C.R.
1	Camshaft	64	CS-187	425E Engs.; w/A/T; Eng. Codes "O1A", "O3A", "O4L", "O5L", "O8R", "O9R", "10A", "11H", "12H", "17M", "18M" & "19M"
1	Camshaft	63-62	CS-187	425E Engs.; w/A/T; Eng. Codes "O1A", "O3B", "O5A", "15H", "17H", "20L", "21L", "23H", "35M", "37M", "40R", "41M", "41R" & "44M"
1	Camshaft	61	CS-187	Eng. Codes "A1", "A2", "A5", "E3", "E7", "G4", "J1", "K5", "Q5", "R2", "S1", "S5", "W3" & "W7"; Catalina, Ventura; w/A/T
1	Camshaft	60	CS-187	Eng. Codes "A1", "A2", "E3", "G4", "J1" & "R2"; w/A/T
16	Lifter	66-59	HT-951	Hyd.
16	Lifter, Bulk	66-59	HT-951B	Hyd.; Carton of 128
1	Prelube	66-60	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	66	KC-641	Eng. Codes "SE", "WW", "YL", "YW" & "YX"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	66	KC-641	Eng. Codes "YU" & "YV"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	66-65	KC-641	Eng. Codes "WA", "WB", "WC", "XA", "XB", "YA", "YC" & "YD"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	66-65	KC-641	Eng. Codes "WE", "WT", "XC", "YE", "YF" & "YS"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	65	KC-641	Eng. Codes "WD" & "YP"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	65	KC-641	Eng. Codes "YB" & "YN"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	64	KC-187	425E Engs.; w/A/T; Eng. Codes "O1A", "O3A", "O4L", "O5L", "O8R", "O9R", "10A", "11H", "12H", "17M", "18M" & "19M"; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	63-62	KC-187	425E Engs.; w/A/T; Eng. Codes "O1A", "O3B", "O5A", "15H", "17H", "20L", "21L", "23H", "35M", "37M", "40R", "41M", "41R" & "44M"; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	61	KC-187	Eng. Codes "A1", "A2", "A5", "E3", "E7", "G4", "J1", "K5", "Q5", "R2", "S1", "S5", "W3" & "W7"; Catalina, Ventura; w/A/T; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	60	KC-187	Eng. Codes "A1", "A2", "E3", "G4", "J1" & "R2"; w/A/T; Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	66	KCT-641	Eng. Codes "SE", "WW", "YL", "YW" & "YX"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	66	KCT-641	Eng. Codes "YU" & "YV"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-65	KCT-641	Eng. Codes "WA", "WB", "WC", "XA", "XB", "YA", "YC" & "YD"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-65	KCT-641	Eng. Codes "WE", "WT", "XC", "YE", "YF", "YS"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	65	KCT-641	Eng. Codes "WD" & "YP"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	65	KCT-641	Eng. Codes "YB" & "YN"; 10.5:1 C.R.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	66-61	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
16	Push Rod	66-61	RP-3164	8.6930" O.A.L.
16	Push Rod	66-61	RP-316435	8.7280" O.A.L.
16	Push Rod	66-61	RP-316460	8.7530" O.A.L.
16	Push Rod	60-59	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	60-59	RP-3028	9.1360" O.A.L.
16	Push Rod, Bulk	66-61	BRP-3164	Carton of 100; 8.6930" O.A.L.
16	Push Rod, Bulk	60-59	BRP-3028	Carton of 100; 9.1360" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	66-61	R-848	Incl. arm & ball

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<b>QTY</b>	<b>ROCKER PARTS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm	66-61	<b>R-848A</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	66-65	<b>V-1813</b> Std Only	10.5:1 C.R.; Chrome plated stem; 1.6400" Head Dia., .3410" Stem Dia., 4.8760" O.A.L.
8	Intake	66-65	<b>V-1743</b> Std Only	10.5:1 C.R.; 1.9190" Head Dia., .3407" Stem Dia., 4.8940" O.A.L.
8	Intake	64-63	<b>V-1532</b> Std Only	10.5:1 C.R.; 1.8820" Head Dia., .3409" Stem Dia., 4.8543" O.A.L.
8	Intake	62-61	<b>V-1532</b> Std Only	Exc. Eng. I.D. Code T425A; 1.8820" Head Dia., .3409" Stem Dia., 4.8543" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	60-59	<b>VG-5034</b>	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	60-59	<b>VG-5037</b>	Int.; .3420" ID, 2.7500" O.A.L.
8	Guide	60-59	<b>VG-5072</b>	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.
8	Guide	60-59	<b>VG-5075T</b>	Int.; Threaded; .3440" ID, 2.8750" O.A.L.
8	Guide, Bulk	60-59	<b>VG-5072B</b>	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.
8	Guide, Bulk	60-59	<b>VG-5075TB</b>	Int.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	66-65	<b>VS-651</b>	Inner; 1.7600" Free Height
16	Spring	66-65	<b>VS-665</b>	Outer; 1.9400" Free Height
16	Spring	64	<b>VS-445</b>	Inner; 1.8120" Free Height
16	Spring	64	<b>VS-446</b>	Outer; 1.9800" Free Height
16	Spring	63	<b>VS-445</b>	Inner; Eng. Codes "01A", "03B", "05A", "15H", "17H", "20L", "21L", "23H", "35M", "37M", "40R", "41R" & "44M"; 1.8120" Free Height
16	Spring	63	<b>VS-445</b>	Inner; Eng. Codes "02B", "04B", "06B", "16K", "18K", "36P", "38P" & "45P"; 1.8120" Free Height
16	Spring	63	<b>VS-446</b>	Outer; Eng. Codes "01A", "03B", "05A", "15H", "17H", "20L", "21L", "23H", "35M", "37M", "40R", "41R" & "44M"; 1.9800" Free Height
16	Spring	63	<b>VS-446</b>	Outer; Eng. Codes "02B", "04B", "06B", "16K", "18K", "36P", "38P" & "45P"; 1.9800" Free Height
16	Spring	62-61	<b>VS-445</b>	Inner; Exc. Eng. I.D. Code T425A; 1.8120" Free Height
16	Spring	62-61	<b>VS-446</b>	Outer; Exc. Eng. I.D. Code T425A; 1.9800" Free Height
16	Spring	60-59	<b>VS-445</b>	Inner; Exc. w/3-2 Bbl. Carbs.; w/M/T; 1.8120" Free Height
16	Spring	60-59	<b>VS-446</b>	Outer; Exc. w/3-2 Bbl. Carbs.; w/M/T; 1.9800" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	66-59	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	66-59	<b>ST-2092</b>	Positive type; Rubber
16	Valve Stem Seal	66-59	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	66-59	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	66-59	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	66-65	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	66-65	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	66-65	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	64-61	<b>245-1937-1</b> Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	66-59	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	66-59	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	66-59	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	66-59	<b>259-301A</b>	.060"; Carton of 100
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	66-59	<b>288P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 10.1:1 C.R.
8	Cast Piston - Individual	66-59	<b>W288P</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 10.1:1 C.R.
8	Powerforged	66	<b>L-2269F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.717" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	65-63	<b>L-2111F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.717" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs.
8	Powerforged	62-59	<b>L-2111F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.717" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs.
8	Forged Piston - Individual	66	<b>WL-2269F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.717" CD, .9802" Pin Dia., Flat Head w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

## 97 6.4L 389 OHV V8 (Pontiac), 4.0625" Bore 1966-59

(cont.)

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	66-59	<b>E-253K30</b> 30-40-60	2-5/64, 1-3/16
1	Standard Set	66-59	<b>E-253X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	66-59	<b>WE-253K30</b> 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	66-59	<b>WE-253X30</b> 30	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	66-59	<b>4040M</b> Std-1-10-20-30	Grooved upper main brgs.
1	Rod Set	66	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "WS", "WV", "XS" & "YR"
1	Rod Set	65	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "WF", "WS", "YG" & "YR"
1	Rod Set	64	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "32B", "336", "33G", "34N", "76X" & "77J"
1	Rod Set	63	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "07B", "266" & "48N"
1	Rod Set	62	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "10B", "11B", "27J", "28J", "49N" & "50N"
1	Rod Set	61	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "C0", "C4", "I9", M0, "M4", "R19", "RC4", "RCO", "RM4", "RMO", "RV9" & "V9"
1	Rod Set	60	<b>8-1555CPA</b> Std-10-20-30-40	Eng. Codes "C1", "C4", "M1" & M4"
1	Rod Set	59	<b>8-1555CPA</b> Std-10-20-30-40	w/3-2 Bbl. Carbs.
8	Rod Pair	66	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "WS", "WV", "XS" & "YR"
8	Rod Pair	65	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "WF", "WS", "YG" & "YR"
1	Rod Pair	64	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "32B", "336", "33G", "34N", "76X" & "77J"
1	Rod Pair	63	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "07B", "266" & "48N"
1	Rod Pair	62	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "10B", "11B", "27J", "28J", "49N" & "50N"
1	Rod Pair	61	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "C0", "C4", "I9", M0, "M4", "R19", "RC4", "RCO", "RM4", "RMO", "RV9" & "V9"
1	Rod Pair	60	<b>1555CPA</b> Std-1-10-20-30-40	Eng. Codes "C1", "C4", "M1" & M4"
8	Rod Pair	59	<b>1555CPA</b> Std-1-10-20-30-40	w/3-2 Bbl. Carbs.
1	Cam Set	66-63	<b>1220M</b> Std Only	
1	Cam Set	62-59	<b>1146M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	66	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	65-61	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	60-59	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Inter. Shaft	66-59	<b>224-61236</b>	
1	Screen Assy.	66	<b>224-11236</b>	3/4" inlet tube
1	Screen Assy.	66	<b>224-11232</b>	5/8" inlet tube
1	Screen Assy.	65	<b>224-11232</b>	Exc. Tempest; Eng. Codes "WA", "WB", "WC", "XA", "XB", "YA", "YB", "YC", "YD" & "YN; 5/8" inlet tube
1	Screen Assy.	65-63	<b>224-11236</b>	3/4" inlet tube
1	Screen Assy.	64	<b>224-11232</b>	Exc. Tempest; 5/8" inlet tube
1	Screen Assy.	63	<b>224-11232</b>	5/8" inlet tube
1	Screen Assy.	62-61	<b>224-11236</b>	3/4" inlet tube
1	Screen Assy.	60-59	<b>224-11232</b>	5/8" inlet tube
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	66-59	<b>381-8021</b>	
1	Steel Block Plug Kit	66-59	<b>381-4028</b>	

## 98 6.4L 390 OHV V8 (Cadillac), 4" Bore 1963-59

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	62-59	<b>222-489</b>	46 Links
1	Crank Sprocket	63	<b>223-337</b>	18 Teeth
1	Crank Sprocket	62-59	<b>223-256</b>	18 Teeth
1	Cam Sprocket	62-59	<b>223-255A</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	63	<b>CS-554</b>	
1	Camshaft	62-59	<b>CS-256</b>	
16	Lifter	63-59	<b>HT-896</b> Std Only	Hyd.
16	Lifter, Bulk	63-59	<b>HT-896B</b> Std Only	Hyd.; Carton of 126
1	Prelube	63-59	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	63	<b>RP-3100</b>	9.1550" O.A.L.
16	Push Rod	60-59	<b>RP-3032</b>	9.6000" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	63-59	<b>V-1366</b> Std Only	1.5000" Head Dia., .3419" Stem Dia., 4.8248" O.A.L.
8	Intake	63-59	<b>V-1367</b> Std Only	1.8750" Head Dia., .3420" Stem Dia., 4.7990" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	63-59	<b>VG-503</b>	.3450" ID, 2.2660" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	63-59	<b>VS-485</b>	2.2500" Free Height

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**6.4L 390 OHV V8 (Cadillac), 4" Bore 1963-59 98**

(cont.)

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	63-59	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	63-59	ST-2092	Positive type; Rubber
16	Valve Stem Seal Bulk	63-59	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	63-59	245-1625-4 Std Only	1.6305" OD, 1.3120" ID, .2175" Depth
8	Int.	63-59	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	63-59	VK-115	1 groove; Square cut key groove
32	Keeper	63-59	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	63-59	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	63-59	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	63-59	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	63-59	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	63-59	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	63-59	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	63-59	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63	4419M Std-10-20-30	
1	Rod Set	63-59	8-2120CP Std-10-20	
8	Rod Pair	63-59	2120CP Std-10-20-30	
1	Cam Set	63	1216M Std Only	

**BLOCK**

**BLOCK**

**6.5L 394 OHV V8 (Oldsmobile), 4.125" Bore 1964-59 99**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	64-59	222-494	48 Links
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	64-59	RP-3024	9.2850" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	64-62	VG-584	Exh.; .3973" ID, 2.3800" O.A.L.
8	Guide	64-62	VG-538	Int.; .3450" ID, 2.3750" O.A.L.
8	Guide	61	VG-584	Exh.; Eng. Codes "F", "FE" & "FL"; .3973" ID, 2.3800" O.A.L.
8	Guide	61	VG-538	Int.; Eng. Codes "F", "FE" & "FL"; .3450" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	64-62	VS-526	2.2500" Free Height
16	Spring	61	VS-526	Eng. Codes "F", "FE" & "FL"; 2.2500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	64-59	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	64-59	MV-1796C	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
8	Valve Stem Seal Bulk	64-59	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	64-59	MV-1796	Int.; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	64-59	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	64-59	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	64-59	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	64-59	VK-115	1 groove; Square cut key groove
32	Keeper	64-59	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	64-59	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	64-59	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	64-59	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	64-59	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	64-59	259-303ARS	.060"; ID .703"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	64-61	1559VA	1.037" OD
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	64-59	E-243K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	64-59	E-243X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	64-59	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	64-59	WE-243X Std-20-30-40-60	2-5/64, 1-3/16

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 99 6.5L 394 OHV V8 (Oldsmobile), 4.125" Bore 1964-59

(cont.)

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Rod Set	64-61	8-3345P	Std-1-10-20-30-40
	8	Rod Pair	64-61	3345P	Std-1-10-20-30-40
	1	Cam Set	64-61	1164M	Std Only
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	64	224-41203	
	1	Oil Pump	64-59	224-41203V	High Volume, check pan for clearance; Use w/224-11203V screen
	1	Oil Pump	63	224-41203	Must use O.E. baffle No. 384670 when replacing O.E. pump
	1	Oil Pump	62-59	224-41203	
	1	Inter. Shaft	64-61	224-61203	
1	Screen Assy.	64-61	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	64-61	224-11203	Will not fit O.E. pump; Use w/224-41203 pump; 5/8" inlet tube	
1	Screen Assy.	60-59	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	60-59	224-12203	Press-in tube	
1	Tool	64-59	MT-J21882	Pump screen installation tool for 5/8" tube	

## 100 6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-65

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	69-65	KT3-501SA	w/2 Bbl. Carb.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
	1	Timing Chain	69-65	222-501	w/2 Bbl. Carb.; Silent type; 50 Links
	1	Timing Chain	69-65	222-495	w/4 Bbl. Carb.; Silent type; 50 Links
	1	Crank Sprocket	69-65	223-393	w/2 Bbl. Carb.; 19 Teeth
	1	Cam Sprocket	69-65	223-392	w/2 Bbl. Carb.; 38 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	69-67	CS-636	w/2 Bbl. Carb.
	1	Camshaft	66-65	CS-636	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal
	1	Performance Cam	69-67	CS-165R	w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	69-67	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees	
1	Performance Cam	69-67	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	69-67	CS-1015R	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	66-65	CS-165R	w/4 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees	
1	Performance Cam	66-65	CS-1004R	NOTE: An oil groove must be machined in the rear journal; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees	
1	Performance Cam	66-65	CS-1088R	NOTE: An oil groove must be machined in the rear journal; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	66-65	CS-1015R	NOTE: An oil groove must be machined in the rear journal; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees	
16	Lifter	69-65	HT-817	Std Only w/2 Bbl. Carb.; Hyd.	
16	Lifter	69-65	AT-992	Std Only w/4 Bbl. Carb.; Mech.	
16	Lifter, Bulk	69-65	HT-817B	Std Only w/2 Bbl. Carb.; Hyd.; Carton of 128	
16	Lifter, Bulk	69-65	AT-992B	Std Only w/4 Bbl. Carb.; Mech.; Carton of 128	
1	Prelube	69-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	69-67	KC-636	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) 55-403B	
1	Cam/Lifter Kit	69-67	KC-1004R	w/2 Bbl. Carb.; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B	

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**6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-65 100**

(cont.)

<b>QTY</b>	<b>CAM KIT (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	69-67	<b>KC-1088R</b>	w/2 Bbl. Carb.; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-67	<b>KC-1015R</b>	w/2 Bbl. Carb.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-67	<b>KC-165R</b>	w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-636</b>	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-1004R</b>	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-1088R</b>	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-1015R</b>	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66-65	<b>KC-165R</b>	w/4 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-67	<b>KCT-636A</b>	w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) KT3-501SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-65	<b>KCT-636A</b>	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) KT3-501SA, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Push Rod	69-65	<b>RP-3181</b>	Exh.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	69-65	<b>RP-3103</b>	Exh.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	69-65	<b>RP-3215R</b>	Exh.; Chrome-Moly; .375" tube dia.; 9.2520" O.A.L.
8	Push Rod	69-65	<b>RP-3218R</b>	Exh.; Chrome-Moly; .437" tube dia.; 9.2520" O.A.L.
8	Push Rod	69-65	<b>RP-3182</b>	Int.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod	69-65	<b>RP-3104</b>	Int.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	69-65	<b>RP-3216R</b>	Int.; Chrome-Moly; .375" tube dia.; 8.2800" O.A.L.
8	Push Rod	69-65	<b>RP-3217R</b>	Int.; Chrome-Moly; .437" tube dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	69-65	<b>BRP-3181</b>	Exh.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	69-65	<b>BRP-3103</b>	Exh.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	69-65	<b>BRP-3182</b>	Int.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
8	Push Rod, Bulk	69-65	<b>BRP-3104</b>	Int.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	69-65	<b>R-851</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-65	<b>R-851B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	69-65	<b>R-851A</b>	
16	Pivot Ball	69-65	<b>MR-1815</b>	
16	Nut	69-65	<b>MR-1813</b>	7/16" thread
16	Stud	69-65	<b>MR-1910RS</b>	7/16" thread, 1.955" length, .710" depth
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	69-65	<b>V-1911</b> Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	69-65	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	69-65	<b>V-1912</b> Std-3-15	w/2 Bbl. Carb.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	69-65	<b>V-1905</b> Std Only	w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake, Bulk	69-65	<b>V-1912B</b> Std-15	w/2 Bbl. Carb.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 100 6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-65

(cont.)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	69-65	VG-688	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide	69-65	VG-689	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	69-65	VG-688B	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk	69-65	VG-689B	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-65	VS-657	Single spring; Incl. damper; 2.1100" Free Height
16	Spring	69-65	VS-708	The spring retainer must be replaced w/O.E. No. 3964264; Double spring; 2.1200" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-65	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	69-65	MV-1769C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	69-65	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	69-65	MV-1769	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-65	245-1812-4N Std Only	w/2 Bbl. Carb.; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	69-65	245-1812-4 Std Only	w/2 Bbl. Carb.; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	69-65	245-2250-1 Std Only	w/2 Bbl. Carb.; 2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-65	VK-138	1 groove; Square cut key groove
32	Keeper	69-65	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-65	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-65	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	69-65	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	69-65	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	69-65	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	69-65	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	69-65	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	69-65	259-303ARS	.060"; ID .703"; Carton of 500
16	Spring Insert	69-65	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	69-65	259-103ARS	.060"; ID 1.030"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	69-65	460P Std-30-40-60	Use w/E-232K or E-232X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.730 plus .200 step" CD, .9894" Pin Dia., Step Head - 9.6:1 C.R.; Fits both L.H. & R.H. banks
8	Cast Piston - Individual	69-65	W460P Std-30-40-60	Use w/WE-232K or WE-232X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.730 plus .200 step" CD, .9894" Pin Dia., Step Head - 9.6:1 C.R.; Fits both L.H. & R.H. banks
8	Powerforged	69	L-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high. DurOshield® skirt coated piston.
8	Powerforged	69	L-2242F30 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .352" high. DurOshield® skirt coated piston.
8	Powerforged	68	L-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high. DurOshield® skirt coated piston.
8	Powerforged	68	L-2242F30 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .352" high. DurOshield® skirt coated piston.
8	Powerforged	67-65	L-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high. DurOshield® skirt coated piston.
8	Powerforged	67-65	L-2242F30 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .352" high. DurOshield® skirt coated piston.
8	Forged Piston - Individual	69	WL-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high.
8	Forged Piston - Individual	69	WL-2242F30 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .335" high. DurOshield® skirt coated piston.
8	Forged Piston - Individual	68	WL-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high.
8	Forged Piston - Individual	68	WL-2242F30 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .335" high. DurOshield® skirt coated piston.
8	Forged Piston - Individual	67-65	WL-2240NF Std-30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high.

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**6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-65 100**

(cont.)

QTY		PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8		Forged Piston - Individual	67-65	<b>WL-2242F30</b> 30-40-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .335" high. <b>DurOshield® skirt coated piston.</b>	
QTY		RINGS	YEARS	PART NO.	DESCRIPTION	
1		Premium Set	69-65	<b>E-232K</b> Std-30-40-60	2-5/64, 1-3/16	
1		Standard Set	69-65	<b>E-232X</b> Std-30-40-60	2-5/64, 1-3/16	
8		Premium Single Cylinder Set	69-65	<b>WE-232K</b> Std-30-40-60	2-5/64, 1-3/16	
8		Standard Single Cylinder Set	69-65	<b>WE-232X</b> Std-30-40-60	2-5/64, 1-3/16	
QTY		ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1		Main Set	69-65	<b>4400MA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
1		Main Set	69-65	<b>7122MA10</b> 10-20-30	<b>A-Series aluminum bearings;</b> w/.020" O/S length flange brg.	
1		Rod Set	69-65	<b>8-3190A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
8		Rod Pair	69-65	<b>3190A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1		Cam Set	69-67	<b>1404M</b> Std Only	Babbitt material; Full round design	
1		Cam Set	66-65	<b>1255M</b> Std Only	Groove in rear cam journal & brg.	
QTY		OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1		Oil Pump	69	<b>224-4154</b>	w/2 Bbl. Carb.	
1		Oil Pump	69	<b>224-4153</b>	w/4 Bbl. Carb.; High Volume, check pan for clearance; Use shaft w/steel guide	
1		Oil Pump	68	<b>224-4154</b>	w/2 Bbl. Carb.; Replaces O.E. pump No. 3946026 w/welded screen; Must use w/224-1152 when replacing pump	
1		Oil Pump	68	<b>224-4153</b>	w/4 Bbl. Carb.; High Volume, check pan for clearance; Use shaft w/steel guide	
1		Oil Pump	67-65	<b>224-4154</b>	w/2 Bbl. Carb.	
1		Oil Pump	67-65	<b>224-4153</b>	w/4 Bbl. Carb.; High Volume, check pan for clearance; Use shaft w/steel guide	
1		Inter. Shaft	69	<b>224-6154A</b>	w/2 Bbl. Carb.; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide	
1		Inter. Shaft	69	<b>224-6154</b>	w/4 Bbl. Carb.; Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide	
1		Inter. Shaft	68	<b>224-6154A</b>	w/2 Bbl. Carb.; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide	
1		Inter. Shaft	68	<b>224-6154</b>	w/4 Bbl. Carb.; Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide	
1		Inter. Shaft	67-65	<b>224-6154A</b>	w/2 Bbl. Carb.; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide	
1		Inter. Shaft	67-65	<b>224-6154</b>	w/4 Bbl. Carb.; Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide	
1		Oil Pump Shaft Guide	69	<b>224-43343</b>	w/2 Bbl. Carb.; Nylon	
1		Oil Pump Shaft Guide	68	<b>224-43343</b>	w/2 Bbl. Carb.; Nylon	
1		Oil Pump Shaft Guide	67-65	<b>224-43343</b>	w/2 Bbl. Carb.; Nylon	
1		Screen Assy.	69	<b>224-43620</b>	w/4 Bbl. Carb.	
1		Screen Assy.	68	<b>224-43620</b>	w/4 Bbl. Carb.; Use w/224-4154 when replacing O.E. pump No. 3946026 w/welded screen	
1		Screen Assy.	67	<b>224-43620</b>	w/4 Bbl. Carb.	
1		Screen Assy.	66-65	<b>224-1252</b>		
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION	
1		Kit Gasket Set	69-65	<b>260-1009</b>	w/2 Bbl. Carb.; Premium valve stem seals incl.	
1		Kit Gasket Set	69-65	<b>260-1717</b>	w/4 Bbl. Carb.; w/Oval port heads; Header gskts. incl.; Complete set	
1		Kit Gasket Set	69-65	<b>260-1081</b>	w/4 Bbl. Carb.; w/Rectangular port heads; Header gskts. incl.; Complete set	
QTY		FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1		Brass Block Plug Kit	69-65	<b>381-8009</b>		
1		Steel Block Plug Kit	69-65	<b>381-4017</b>		
RE-RING KIT		YEARS	DESCRIPTION	RE-RING	PREMIUM KIT NO.	ECONOMY KIT NO.
		69-65	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-686</b> <b>205-686M</b>	<b>205-186</b> <b>205-186M</b>
OVERHAUL KIT		YEARS	DESCRIPTION	MASTER	PREMIUM KIT NO.	ECONOMY KIT NO.
		69	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-686C</b> <b>MK-686C</b>	<b>MKP-186C</b> <b>MK-186C</b>
		69	w/2 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-686C</b>	<b>505-186C</b>

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# GM Car

## 100 6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-65 (cont.)

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
68	w/2 Bbl. Carb.; Replaces O.E. pump No. 3946026 w/welded screen; Must use w/224-1152 when replacing pump; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-686C</b> <b>MK-686C</b>	<b>MKP-186C</b> <b>MK-186C</b>
68	w/2 Bbl. Carb.; Replaces O.E. pump No. 3946026 w/welded screen; Must use w/224-1152 when replacing pump; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-686C</b>	<b>505-186C</b>
67	w/2 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons	<b>MKP-686C</b> <b>MK-686C</b>	<b>MKP-186C</b> <b>MK-186C</b>
67	w/2 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-686C</b>	<b>505-186C</b>
66-65	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master	<b>MKP-686A</b>	----
66-65	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Timing kit not incl.	Master Master w/o Pistons	---- <b>MK-686A</b>	<b>MKP-186A</b> <b>MK-186A</b>
66-65	w/2 Bbl. Carb.; NOTE: An oil groove must be machined in the rear journal; Premium valve stem seals incl.; Timing kit not incl.	Master w/o Rods & Mains	<b>505-686A</b>	<b>505-186A</b>

## 101 6.6L 400 OHV V8 (Oldsmobile), 4" Bore 1967-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-65	<b>KT3-494SA5</b>	Incl. (1) 222-494, (1) 223-360, (1) 223-361
1	Timing Chain	67-65	<b>222-494</b>	48 Links
1	Crank Sprocket	67-65	<b>223-361</b>	18 Teeth
1	Cam Sprocket	67-65	<b>223-360</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	67	<b>CS-651</b>	Eng. Code "VG"; Exc. O.A.I.
1	Prelube	67	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67-66	<b>RP-3112</b>	9.4210" O.A.L.
16	Push Rod	65	<b>RP-3171</b>	9.5940" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	67-65	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	67-65	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64
8	Arm	67-65	<b>R-856A</b>	
8	Pivot	67-65	<b>MR-1903</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-65	<b>V-1772</b> Std Only	Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Intake	67-65	<b>V-1776</b> Std Only	2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	67-65	<b>VG-5038</b>	.3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	67-65	<b>VG-5038B</b>	Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	67-65	<b>VS-1618R</b>	Incl. damper; 1.9940" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-65	<b>ST-2001</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal Bulk	67-65	<b>ST-2001BC</b>	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-65	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	67-65	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	67-65	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-65	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	67-65	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-65	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-65	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	67-65	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	67-65	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	67-65	<b>259-203A</b>	.060"; Carton of 100

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**6.6L 400 OHV V8 (Oldsmobile), 4" Bore 1967-65 101**  
(cont.)

<b>QTY</b>	<b>VALVE, MISC (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring Insert	67-65	<b>259-203ARS</b>	.060"; Carton of 500
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	67-65	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	67-65	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-65	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	67-65	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	67-65	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	67-65	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	67-65	<b>4294M</b> Std-1-10-20-30	
1	Rod Set	67-65	<b>8-3345P</b> Std-1-10-20-30-40	
8	Rod Pair	67-65	<b>3345P</b> Std-1-10-20-30-40	
1	Cam Set	67-65	<b>1234M</b> Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	67-65	<b>224-41203</b>	
1	Oil Pump	67-65	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen
1	Inter. Shaft	67-65	<b>224-61203</b>	
1	Screen Assy.	67-66	<b>224-11203</b>	Exc. Toronado; 5/8" inlet tube
1	Screen Assy.	67-66	<b>224-12203</b>	Toronado; Press-in tube
1	Screen Assy.	67-65	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump
1	Screen Assy.	65	<b>224-11203</b>	5/8" inlet tube
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	67-65	<b>260-1008</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	67-65	<b>260-4021</b>	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	67-65	<b>381-8020</b>	
1	Steel Block Plug Kit	67-65	<b>381-4020</b>	

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**6.6L 400 OHV V8 (Oldsmobile), 3.87" Bore 1969-68 102**

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	69-68	<b>KT3-494SA5</b>	Incl. (1) 222-494, (1) 223-360, (1) 223-361
1	Timing Chain	69-68	<b>222-494</b>	48 Links
1	Crank Sprocket	69-68	<b>223-361</b>	18 Teeth
1	Cam Sprocket	69-68	<b>223-360</b>	36 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	69-68	<b>CS-651</b>	Hyd.
16	Lifter	69-68	<b>HT-951</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	69-68	<b>HT-951B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube	69-68	<b>55-400</b>	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter/Timing Kit	69-68	<b>KCT-651A</b>	Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-494SA5, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	69-68	<b>RP-3228R</b>	Chrome-Moly; 9.5500" O.A.L.
16	Push Rod	69-68	<b>RP-3197</b>	9.5460" O.A.L.
16	Push Rod, Bulk	69-68	<b>BRP-3197</b>	Carton of 100; 9.5460" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	69-68	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	69-68	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	69-68	<b>R-856A</b>	
8	Pivot	69-68	<b>MR-1903</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	69-68	<b>V-1772</b> Std Only	Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Intake	69-68	<b>V-1776</b> Std Only	Eng. Codes "QR", "QS", "QT", "QU" & "QW"; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	68	<b>V-1775</b> Std Only	Eng. Code "QL"; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	69-68	<b>VS-1618R</b>	Incl. damper; 1.9940" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	69-68	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	69-68	<b>MV-1819C</b>	Umbrella type; Nylon
16	Valve Stem Seal Bulk	69-68	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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## 102 6.6L 400 OHV V8 (Oldsmobile), 3.87" Bore 1969-68

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VALVE TRAIN		QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
		16	Valve Stem Seal Bulk	69-68	MV-1819	Umbrella type; Carton of 50; Nylon		
		8	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
		8	Exh.	69-68	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth		
		8	Exh.	69-68	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth		
		8	Int.	69-68	245-2250-1 Std Only	Eng. Codes "QR", "QS", "QT", "QU" & "QW"; 2.2555" OD, 1.9375" ID, .1855" Depth		
		8	Int.	68	245-2125-2 Std Only	Eng. Code "QL"; 2.1305" OD, 1.8750" ID, .2480" Depth		
		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
		32	Keeper	69-68	VK-115	1 groove; Square cut key groove		
		32	Keeper	69-68	VK-115R	1 groove; Square cut key groove; Hardened		
		32	Keeper, Bulk	69-68	VK-115B	1 groove; Square cut key groove; Carton of 1000		
		16	Spring Insert	69-68	259-203C	.015"; Carton of 100		
		16	Spring Insert	69-68	259-203B	.030"; Carton of 100		
		16	Spring Insert	69-68	259-203BRS	.030"; Carton of 500		
		16	Spring Insert	69-68	259-203A	.060"; Carton of 100		
		16	Spring Insert	69-68	259-203ARS	.060"; Carton of 500		
		QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
		8	Powerforged	69-68	L-2346F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.737" CD, .9805" Pin Dia., Recessed Head .032" deep x 2.380" dia.; DurOshield® skirt coated piston		
		8	Forged Piston - Individual	69-68	WL-2346F30 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.737" CD, .9805" Pin Dia., Recessed Head .032" deep x 2.380" dia.; DurOshield® skirt coated piston		
		QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
		1	Premium Set	69-68	E-298K30 30	2-5/64, 1-3/16		
		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
		1	Main Set	69-68	4294M Std-1-10-20-30			
		1	Rod Set	69-68	8-3345P Std-1-10-20-30-40			
		8	Rod Pair	69-68	3345P Std-1-10-20-30-40			
		1	Cam Set	69-68	1234M Std Only	Babbitt material; Full round design		
		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
		1	Oil Pump	69-68	224-41203			
		1	Oil Pump	69-68	224-41203V	High Volume, check pan for clearance; Use w/224-11203V screen		
		1	Inter. Shaft	69-68	224-61203			
		1	Screen Assy.	69-68	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump		
		1	Screen Assy.	69-68	224-11203	Exc. Toronado; 5/8" inlet tube		
		1	Screen Assy.	69-68	224-12203	Toronado; Press-in tube		
		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
		1	Kit Gasket Set	69-68	260-1008	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
		1	Valley Pan Gasket Set	69-68	260-4021			
		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
		1	Brass Block Plug Kit	69-68	381-8020			
		1	Steel Block Plug Kit	69-68	381-4020			

## 103 6.6L 400 OHV V8 (Buick), 4.04" Bore 1969-67

VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
		1	3 Piece Set	69-67	KT3-498S	223-398 not sold separately; Incl. (1) 222-498, (1) 223-369, (1) 223-398		
		1	Timing Chain	69-67	222-498	48 Links		
		1	Crank Sprocket	69-67	223-369	18 Teeth		
		QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
		1	Camshaft	69-67	CS-586	Use w/KT3-498S timing set		
		16	Lifter	69-67	HT-969 Std Only	Use w/hollow push rods; Hyd.; w/.440" wide oil groove		
		16	Lifter	69-67	HT-969R Std Only	Use w/hollow push rods; Speed-Pro Hi-Revolution Hyd.		
		16	Lifter	69-67	HT-896 Std Only	Use w/solid push rods; Hyd.		
		16	Lifter, Bulk	69-67	HT-969B Std Only	Use w/hollow push rods; Hyd.; Carton of 128		
		16	Lifter, Bulk	69-67	HT-969RB Std Only	Use w/hollow push rods; Speed-Pro Hi-Revolution Hyd.; Carton of 128		
		16	Lifter, Bulk	69-67	HT-896B Std Only	Use w/solid push rods; Hyd.; Carton of 126		
		1	Prelube	69-67	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
		QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
		1	Cam/Lifter Kit	69-67	KC-586	Use w/hollow push rods; Use w/KT3-498S timing set; Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B		
		QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
		16	Push Rod	69-67	RP-3202	9.3550" O.A.L.		

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**6.6L 400 OHV V8 (Buick), 4.04" Bore 1969-67 103**  
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					VALVE TRAIN
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
8	Arm	69-68	R-857	Exh. 2-3-6-7	
8	Arm	69-68	R-857	Int. 1-4-5-8	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
8	Exhaust	69-67	V-1799 Std Only	Chrome plated stem; 1.6250" Head Dia., .3725" Stem Dia., 5.1620" O.A.L.	
8	Intake	69-67	V-1800 Std Only	Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	69-67	VG-5062	Int.; .3735" ID, 2.3800" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
16	Spring	69-67	VS-712	Incl. damper; 2.2000" Free Height	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Exh.	69-67	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth	
8	Exh.	69-67	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth	
8	Int.	69-67	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	69-67	VK-97		
16	Spring Insert	69-67	259-100B	.030"; Carton of 100	
16	Spring Insert	69-67	259-100A	.060"; Carton of 100	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	69-67	E-286K Std-30-40-60	2-5/64, 1-3/16	
1	Standard Set	69-67	E-286X Std-30-40	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	69-67	WE-286X30 30	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	69-67	4664M Std-10-20-30		
1	Rod Set	69-67	8-3320CP Std-10-20-30-40		
8	Rod Pair	69-67	3320CP Std-10-20-30-40		
1	Cam Set	69-67	1422M Std Only	w/oil hole	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	69-67	224-415		
1	Pump Repair Kit	69-67	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions	
1	Pump Repair Kit	69-67	224-519	Use w/224-518TP Thrust Plate kit	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	69-67	260-1150	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	69-67	260-4013		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	69-67	381-8003		

**6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1976-70 104**  
VIN Codes "M" 1975, "R" 1972-75, "U" 1973-76

					VALVE TRAIN
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	3 Piece Set	76-70	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391	
1	Timing Chain	76-70	222-499	Use w/.405" tooth width sprocket; 46 Links	
1	Crank Sprocket	76-70	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth	
1	Cam Sprocket	76-70	223-390	.405" tooth width sprocket; 36 Teeth	
1	Cam Sprocket	76-70	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	76-75	CS-274		
1	Camshaft	74	CS-274	Exc. w/Calif. emis.	
1	Camshaft	73	CS-274	Exc. w/Calif. emis.	
1	Camshaft	72	CS-274	Exc. w/Calif. emis.	
1	Camshaft	71-70	CS-274		
1	Performance Cam	76-70	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	76-70	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees	
1	Performance Cam	76-70	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees	
16	Lifter	76-70	HT-817 Std Only	Hyd.	

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## 104 6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1976-70

(cont.) VIN Codes "M" 1975, "R" 1972-75, "U" 1973-76

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	76-70	HT-817R Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	76-70	HT-817B Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	76-70	HT-817RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	76-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	76-75	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-70	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-70	KC-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-70	KC-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	74-72	KC-274	Exc. w/Calif. emis.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71-70	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-274	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-72	KCT-274	Exc. w/Calif. emis.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71-70	KCT-274	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	76-70	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	76-70	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	76-70	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	76-70	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	76-70	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	76-70	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	76-70	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	76-70	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	76-70	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	76-70	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	76-70	R-826A	
16	Pivot Ball	76-70	MR-1783	
16	Pivot Ball	76-70	MR-1822	H/D 4 groove ball
16	Stud	76-70	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	76-70	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	76-73	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	72	V-1904 Std-3-15-30	VIN Code "R"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	70	V-4231 Std Only	w/2 Bbl. Carb.; Chrome plated stem; Swirl Polish; 1.6000" Head Dia., .3407" Stem Dia., 4.9000" O.A.L.
8	Exhaust, Bulk	76-73	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	72	V-1904B Std-15	VIN Code "R"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Intake	76	V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	75-72	V-1926 Std-3-15	Exc. Police; Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	71-70	V-1612 Std-3	w/2 Bbl. Carb.; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	76	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	75-72	V-1926B Std-15	Exc. Police; Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	71-70	V-1612B Std Only	w/2 Bbl. Carb.; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	76-70	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	76-70	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.

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VIN Codes "M" 1975, "R" 1972-75, "U" 1973-76 (cont.)

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	76-73	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	76-73	VS-677	Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-70	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-70	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring, Bulk	76-73	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	76-73	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-70	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-70	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-70	ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	76-70	MV-1903	Use w/VG-5038 repair guide; Positive type; Rubber
16	Valve Stem Seal	76-70	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	76-70	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	76-70	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-73	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	76-73	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.	76-70	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	72-70	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	72-70	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-70	VK-115	1 groove; Square cut key groove
32	Keeper	76-70	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-70	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-70	259-203C	.015"; Carton of 100
16	Spring Insert	76-70	259-203B	.030"; Carton of 100
16	Spring Insert	76-70	259-203BRS	.030"; Carton of 500
16	Spring Insert	76-70	259-203A	.060"; Carton of 100
16	Spring Insert	76-70	259-203ARS	.060"; Carton of 500
8	Rotocap	76-74	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-70	400AP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	76-70	W400AP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	76-70	8K400AP30 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
8	Powerforged	70	L-2352F30 30-40-60	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.555" CD, .9272" Pin Dia., Recessed Head .083" deep x 3.200" dia. w/4 valve reliefs. DurOShield® skirt coated piston.
8	Forged Piston - Individual	70	WL-2352F30 30-40	w/2 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.555" CD, .9272" Pin Dia., Recessed Head .083" deep x 3.200" dia. w/4 valve reliefs. DurOShield® skirt coated piston.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	76-70	E-243K Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	76-70	R-10374 Std-30-40-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	76-70	E-243X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	76-70	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	76-70	WE-243X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	75-72	4926MA Std-1-10-20-30	VIN Code "R"; A-Series aluminum bearings
1	Main Set	71-70	4926MA Std-1-10-20-30	A-Series aluminum bearings
1	Rod Set	76-70	8-2555A10X2 10X2-20X2-30X2-40X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore
1	Rod Set	76-70	8-2555CP10X2 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	75-72	8-2555A Std-1-2-10-20-30-40-50-60	VIN Code "R"; A-Series aluminum bearings
1	Rod Set	75-72	8-2555CP Std-1-2-10-20-30-40-50	VIN Code "R"; 8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	71-70	8-2555A Std-1-2-10-20-30-40-50-60	A-Series aluminum bearings
1	Rod Set	76-70	8-2555CA60 60	Unplated & resizeable
8	Rod Pair	75-72	2555A Std-1-2-10-20-30-40-50-60	VIN Code "R"; A-Series aluminum bearings

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## 104 6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1976-70

(cont.) VIN Codes "M" 1975, "R" 1972-75, "U" 1973-76

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Rod Pair	75-72	<b>2555CP</b> Std-1-2-10-20-30-40-50	VIN Code "R"; Overplated copper-lead alloy
	8	Rod Pair	76-70	<b>2555CA60</b> 60	Unplated & resizeable
	1	Cam Set	75-72	<b>1235M</b> Std-1-10	VIN Code "R"; Babbitt material; Full round design
	1	Cam Set	75-72	<b>1749M</b> Std Only	VIN Code "R"; Bi-Metal Aluminum
	1	Cam Set	71-70	<b>1235M</b> Std-1-10	Babbitt material; Full round design
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	76-73	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	76-73	<b>224-4146</b>	5/8" inlet
	1	Oil Pump	72	<b>224-4143</b>	VIN Code "R"; High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	72	<b>224-4146</b>	VIN Code "R"; 5/8" inlet	
1	Oil Pump	71-70	<b>224-4146</b>	5/8" inlet	
1	Inter. Shaft	76-73	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	76-73	<b>224-6146</b>	Use w/nylon shaft guide	
1	Inter. Shaft	72	<b>224-6146E</b>	VIN Code "R"; Has steel shaft guide; Eliminates nylon shaft guide	
1	Inter. Shaft	72	<b>224-6146</b>	VIN Code "R"; Use w/nylon shaft guide	
1	Oil Pump Shaft Guide	76-70	<b>224-43343</b>	Nylon	
1	Screen Assy.	76-73	<b>224-1246</b>	5/8" inlet tube	
1	Screen Assy.	72	<b>224-1246</b>	VIN Code "R"; 5/8" inlet tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	76-70	<b>260-1016</b>		
2	Head Bolt Set	76-70	<b>260-2500</b>		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	76-73	<b>381-8008</b>	VIN Code "U"	
1	Brass Block Plug Kit	75	<b>381-8008</b>	VIN Code "M"	
1	Brass Block Plug Kit	75-72	<b>381-8008</b>	VIN Code "R"	
1	Brass Block Plug Kit	71-70	<b>381-8008</b>		

KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	75-72	VIN Code "R"; Incl. <b>A-Series aluminum bearings</b>	Re-ring	<b>205-6282</b>	<b>205-1282</b>
			Re-ring w/Mains	<b>205-6282M</b>	<b>205-1282M</b>
	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	75	VIN Code "R"; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-618A</b>	<b>MKP-118A</b>
	75	VIN Code "R"; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-618A</b>	<b>505-118A</b>
	75	VIN Code "R"; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-618D</b> <b>MK-618D</b>	<b>MKP-118D</b> ----
	74-72	VIN Code "R"; Exc. w/Calif. emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-618A</b>	<b>MKP-118A</b>
74-72	VIN Code "R"; Exc. w/Calif. emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-618A</b>	<b>505-118A</b>	
74-72	VIN Code "R"; Exc. w/Calif. emis.; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-618D</b> <b>MK-618D</b>	<b>MKP-118D</b> ----	
71-70	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-618A</b>	<b>MKP-118A</b>	
71-70	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-618A</b>	<b>505-118A</b>	
71-70	Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-618D</b> <b>MK-618D</b>	<b>MKP-118D</b> ----	

## 105 6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67

VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	79-67	<b>KT3-350S</b>	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	79-67	<b>222-350</b>	60 Links

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**6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67 105**

VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79 (cont.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	78-77	CS-690	
1	Camshaft	76	CS-641	VIN Codes "S" & "Z"; w/A/T
1	Camshaft	75	CS-641	VIN Code "S"; w/A/T
1	Camshaft	74-72	CS-641	VIN Codes "S" & "T"; w/A/T
1	Camshaft	71	CS-641	Eng. Codes "WK", "WT" & "YS"; w/A/T
1	Camshaft	70-69	CS-641	w/2 Bbl. Carb.; w/M/T
1	Camshaft	70-69	CS-641	w/4 Bbl. Carb.; w/A/T
1	Camshaft	68	CS-641	w/2 Bbl. Carb.; w/M/T
1	Camshaft	68	CS-641	Grand Prix; Hi-Torque Eng.; w/4 Bbl. Carb.
1	Camshaft	67	CS-641	Firebird & Tempest; Hi-Torque Eng.; w/4 Bbl. Carb.
16	Lifter	79-71	HT-951 Std Only	Hyd.
16	Lifter	70-69	HT-951 Std Only	Exc. Ram Air; Hyd.
16	Lifter	70-67	HT-951R Std Only	w/Ram Air; Speed-Pro Hi-Revolution Hyd.
16	Lifter	68-67	HT-951 Std Only	Hyd.
16	Lifter, Bulk	79-71	HT-951B Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	70-69	HT-951B Std Only	Exc. Ram Air; Hyd.; Carton of 128
16	Lifter, Bulk	70-67	HT-951RB Std Only	w/Ram Air; Hyd. Hi-Rev; Carton of 128
16	Lifter, Bulk	68-67	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	78-67	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	78-77	KC-690C	Hyd.; Incl. (1) CS-690, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	76	KC-641	VIN Codes "S" & "Z"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	75	KC-641	VIN Code "S"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	74-72	KC-641	VIN Codes "S" & "T"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	71	KC-641	Eng. Codes "WK", "WT" & "YS"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	70-69	KC-641	w/A/T; Exc. Ram Air; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	70-68	KC-641	w/2 Bbl. Carb.; w/M/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	68	KC-641	Grand Prix; w/4 Bbl. Carb.; Hi-Torque; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-641	VIN Codes "S" & "Z"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75	KCT-641	VIN Code "S"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-72	KCT-641	VIN Codes "S" & "T"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	KCT-641	Eng. Codes "WK", "WT" & "YS"; w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	70-69	KCT-641	w/A/T; Exc. Ram Air; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	70-68	KCT-641	w/2 Bbl. Carb.; w/M/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68	KCT-641	Grand Prix; w/4 Bbl. Carb.; Hi-Torque; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	79-71	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	79-71	RP-3028	9.1360" O.A.L.
16	Push Rod	70	RP-3304	Ram Air III & IV Eng.s.; 9.2000" O.A.L.
16	Push Rod	70-68	RP-3229R	Exc. Ram Air; Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	70-68	RP-3028	Exc. Ram Air; 9.1360" O.A.L.
16	Push Rod	67	RP-3213R	w/o push rod guide plates; Chrome-Moly; 8.6900" O.A.L.
16	Push Rod	67	RP-3164	w/o push rod guide plates; 8.6930" O.A.L.
16	Push Rod	67	RP-316435	w/o push rod guide plates; 8.7280" O.A.L.
16	Push Rod	67	RP-316460	w/o push rod guide plates; 8.7530" O.A.L.
16	Push Rod	67	RP-3229R	w/push rod guide plates; Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	67	RP-3028	w/push rod guide plates; 9.1360" O.A.L.
16	Push Rod, Bulk	79-71	BRP-3028	Carton of 100; 9.1360" O.A.L.
16	Push Rod, Bulk	70-68	BRP-3028	Exc. Ram Air; Carton of 100; 9.1360" O.A.L.
16	Push Rod, Bulk	67	BRP-3164	w/o push rod guide plates; Carton of 100; 8.6930" O.A.L.
16	Push Rod, Bulk	67	BRP-3028	w/push rod guide plates; Carton of 100; 9.1360" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	79-70	R-1032	Incl. arm, ball & nut
16	Arm Assy.	69	R-1032	Exc. Ram Air; Incl. arm, ball & nut
16	Arm Assy.	68	R-1032	Incl. arm, ball & nut
16	Arm Assy.	67	R-848	w/o push rod guide plates; Incl. arm & ball

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VALVE TRAIN

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# GM Car

## 105 6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67

(cont.) VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	67	R-1032	w/push rod guide plates; Incl. arm, ball & nut
16	Arm Assy., Bulk	79-70	R-1032B	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	69	R-1032B	Exc. Ram Air; Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	68	R-1032B	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	67	R-1032B	w/push rod guide plates; Incl. arm, ball & nut; Carton of 64
16	Arm	79-70	R-849A	
16	Arm	69	R-849A	Exc. Ram Air
16	Arm	68	R-849A	
16	Arm	67	R-848A	w/o push rod guide plates
16	Arm	67	R-849A	w/push rod guide plates
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	79-74	V-1963 Std Only	Chrome plated stem; 1.6610" Head Dia., .3410" Stem Dia., 4.9610" O.A.L.
8	Exhaust	73	V-1902 Std Only	Eng. Codes "WH", "YH", "YS" & "YW"; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	73	V-1963 Std Only	Exc. Eng. Codes "WH", "YH" & "YS"; Chrome plated stem; 1.6610" Head Dia., .3410" Stem Dia., 4.9610" O.A.L.
8	Exhaust	72	V-1832 Std Only	VIN Codes "P" & "R"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	72	V-1902 Std Only	VIN Codes "S" & "T"; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	71	V-1902 Std Only	Eng. Codes "WK", "WT" & "YS"; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	71	V-1832 Std Only	Eng. Codes "WS", "WX" & "YX"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	70	V-1832 Std Only	Eng. Codes "WE", "XX", "YB" & "YD"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	70	V-1823 Std Only	Exc. Ram Air; Eng. Codes "WH", "WK", "WS", "WT", "WW", "WX", "XH", "XJ", "XN", "XP", "XV", "XZ", "YS" & "YZ"; 1.6600" Head Dia., .3410" Stem Dia., 5.0820" O.A.L.
8	Exhaust	70	V-3923 Std Only	Ram Air III; Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.
8	Exhaust	69	V-1823 Std Only	w/2 Bbl. Carb.; 10.5:1 C.R.; 1.6600" Head Dia., .3410" Stem Dia., 5.0820" O.A.L.
8	Exhaust	69	V-1832 Std Only	w/2 Bbl. Carb.; 8.6:1 C.R.; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	69	V-3923 Std Only	w/4 Bbl. Carb.; Exc. Ram Air IV; Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.
8	Exhaust	68	V-1823 Std Only	w/2 Bbl. Carb.; 10.5:1 C.R.; 1.6600" Head Dia., .3410" Stem Dia., 5.0820" O.A.L.
8	Exhaust	68	V-1832 Std Only	w/2 Bbl. Carb.; 8.6:1 C.R.; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	68	V-3923 Std Only	w/4 Bbl. Carb.; Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.
8	Exhaust	67	V-1813 Std Only	w/2 Bbl. Carb.; 10.5:1 C.R.; Chrome plated stem; 1.6400" Head Dia., .3410" Stem Dia., 4.8760" O.A.L.
8	Exhaust	67	V-1946 Std Only	w/2 Bbl. Carb.; 10.75:1 C.R.; Chrome plated stem; 1.7756" Head Dia., .3409" Stem Dia., 5.0512" O.A.L.
8	Exhaust	67	V-1946 Std Only	VIN Codes "X" & "Y"; Chrome plated stem; 1.7756" Head Dia., .3409" Stem Dia., 5.0512" O.A.L.
8	Intake	79-75	V-1903 Std Only	Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
8	Intake	74-72	V-1964 Std Only	VIN Codes "P" & "R"; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 4.9800" O.A.L.
8	Intake	74-72	V-1903 Std Only	VIN Codes "S" & "T"; Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
8	Intake	71	V-1903 Std Only	Eng. Codes "WK", "WT" & "YS"; Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
8	Intake	71	V-1964 Std Only	Eng. Codes "WS", "WX" & "YX"; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 4.9800" O.A.L.
8	Intake	70	V-1964 Std Only	Eng. Codes "WE", "XX", "YB" & "YD"; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 4.9800" O.A.L.
8	Intake	69	V-1824 Std Only	w/2 Bbl. Carb.; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 5.0890" O.A.L.
8	Intake	69	V-1826 Std Only	w/4 Bbl. Carb.; Exc. Ram Air IV; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
8	Intake	68	V-1824 Std Only	w/2 Bbl. Carb.; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 5.0890" O.A.L.
8	Intake	68	V-1826 Std Only	w/4 Bbl. Carb.; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
8	Intake	67	V-1743 Std Only	w/2 Bbl. Carb.; 10.5:1 C.R.; 1.9190" Head Dia., .3407" Stem Dia., 4.8940" O.A.L.

VALVE TRAIN

VALVE TRAIN

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**6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67 105**

VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79 (cont.)

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake	67	V-1826 Std Only	w/2 Bbl. Carb.; 10.75:1 C.R.; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	79-71	VG-5002	.3420" ID, 3.0600" O.A.L.
16	Guide	79-71	VG-5002T	Threaded; .3430" ID, 3.0630" O.A.L.
16	Guide	70-68	VG-5002	Exc. Ram Air; .3420" ID, 3.0600" O.A.L.
16	Guide	70-68	VG-5002T	Exc. Ram Air; Threaded; .3430" ID, 3.0630" O.A.L.
16	Guide	67	VG-5002	.3420" ID, 3.0600" O.A.L.
16	Guide	67	VG-5002T	Threaded; .3430" ID, 3.0630" O.A.L.
16	Guide, Bulk	79-71	VG-5002B	Carton of 50; .3420" ID, 3.0600" O.A.L.
16	Guide, Bulk	79-71	VG-5002TB	Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
16	Guide, Bulk	70-68	VG-5002B	Exc. Ram Air; Carton of 50; .3420" ID, 3.0600" O.A.L.
16	Guide, Bulk	70-68	VG-5002TB	Exc. Ram Air; Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
16	Guide, Bulk	67	VG-5002B	Carton of 50; .3420" ID, 3.0600" O.A.L.
16	Guide, Bulk	67	VG-5002TB	Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	79-71	VS-651	Inner; 1.7600" Free Height
16	Spring	79-71	VS-665	Outer; 1.9400" Free Height
16	Spring	70	VS-651	Inner; Eng. Codes "WE", "XX", "YB" & "YD"; 1.7600" Free Height
16	Spring	70	VS-1433	Inner; Eng. Codes "WH", "WK", "WS", "WT", "WW", "WX", "XH", "XJ", "XN", "XP", "XV", "XZ", "YS" & "YZ"; Exc. Ram Air IV; 1.9350" Free Height
16	Spring	70-69	VS-1580	Ram Air IV; Inner and outer assy.; 2.0870" Free Height
16	Spring	70-69	VS-665	Outer; Exc. Ram Air IV; 1.9400" Free Height
16	Spring	69	VS-651	Inner; 1.7600" Free Height
16	Spring	68-67	VS-1580	Ram Air; Inner and outer assy.; 2.0870" Free Height
16	Spring	68-67	VS-651	Inner; w/2 Bbl. Carb.; 1.7600" Free Height
16	Spring	68-67	VS-665	Outer; Exc. Ram Air; 1.9400" Free Height
16	Spring	67	VS-1433	Inner; VIN Codes "X" & "Y"; 1.9350" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	79-67	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	79-67	ST-2092	Positive type; Rubber
16	Valve Stem Seal	79-67	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	79-67	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	79-67	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	79-74	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	79-74	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	79-74	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
8	Int.	73-68	245-2125-1 Std Only	Use w/V-1824 & V-1964; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Int.	73-68	245-2125-2 Std Only	Use w/V-1903 & V-1826; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Exh.	73-67	245-1750-2N Std Only	Use w/V-1823, V-1832, V-1963 & V-1813; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73-67	245-1750-2 Std Only	Use w/V-1823, V-1832, V-1963 & V-1813; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	73-67	245-1812-1N Std Only	Use w/V-1946, V-3923 & V-1902; Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Exh.	73-67	245-1812-1 Std Only	Use w/V-1946, V-3923 & V-1902; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Int.	67	245-2000-1 Std Only	Use w/V-1743; 2.0055" OD, 1.7500" ID, .2160" Depth
8	Int.	67	245-2125-2 Std Only	Use w/V-1826; 2.1305" OD, 1.8750" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	79-67	VK-115	1 groove; Square cut key groove
32	Keeper	79-67	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	79-67	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	79-67	259-305B	.030"; Carton of 100
16	Spring Insert	79-67	259-305A	.060"; Carton of 100
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	79-71	411NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston	70-69	411NP Std-20-30-40-60	Exc. Ram Air IV; Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 105 6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67

(cont.) VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	68	<b>411NP</b> Std-20-30-40-60	Exc. Ram Air; Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston	67	<b>411NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston - Individual	79-71	<b>W411NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston - Individual	70-69	<b>W411NP</b> Std-20-30-40-60	Exc. Ram Air IV; Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston - Individual	68	<b>W411NP</b> Std-20-30-40-60	Exc. Ram Air; Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Cast Piston - Individual	67	<b>W411NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.700" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 7.6:1 C.R.
8	Powerforged	74-68	<b>L-2262F</b> Std-20-30-40-60	10.75:1 C.R.; Powerforged; Pin wt. = 250 gr.; 2-5/64", 1-3/16" Ring Groove, 1.714" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	67	<b>L-2262F</b> Std-20-30-40-60	VIN Codes "X" & "Y"; Powerforged; Pin wt. = 250 gr.; 2-5/64", 1-3/16" Ring Groove, 1.714" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	74-68	<b>WL-2262F</b> Std-20-30-40-60	10.75:1 C.R.; Powerforged; Pin wt. = 250 gr.; 2-5/64", 1-3/16" Ring Groove, 1.714" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	67	<b>WL-2262F</b> Std-20-30-40-60	VIN Codes "X" & "Y"; Powerforged; Pin wt. = 250 gr.; 2-5/64", 1-3/16" Ring Groove, 1.714" CD, .9802" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-67	<b>E-299K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-67	<b>E-299X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-67	<b>WE-299K</b> Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	79-67	<b>WE-299X</b> Std-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-67	<b>4040M</b> Std-1-10-20-30	Grooved upper main brgs.
1	Rod Set	79-67	<b>8-1555CPA</b> Std-10-20-30-40	
8	Rod Pair	79-67	<b>1555CPA</b> Std-1-10-20-30-40	
1	Cam Set	79-67	<b>1220M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	79-75	<b>224-43629</b>	30% more pressure than 22443364S
1	Oil Pump	79-74	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	73-72	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	71	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	70	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	69	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	68	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Oil Pump	67	<b>224-43364S</b>	High Pressure; 3/4" inlet tube; Incl. screen
1	Inter. Shaft	79-71	<b>224-61236</b>	
1	Inter. Shaft	70	<b>224-61236</b>	
1	Inter. Shaft	69	<b>224-61236</b>	
1	Inter. Shaft	68	<b>224-61236</b>	
1	Inter. Shaft	67	<b>224-61236</b>	
1	Screen Assy.	72-71	<b>224-11232</b>	Use w/O.E. pump; 5/8" inlet tube
1	Screen Assy.	70	<b>224-11232</b>	Use w/O.E. pump; 5/8" inlet tube
1	Screen Assy.	69	<b>224-11232</b>	Use w/O.E. pump; 5/8" inlet tube
1	Screen Assy.	68-67	<b>224-11232</b>	Use w/O.E. pump; 5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	79-71	<b>260-1025</b>	
1	Kit Gasket Set	70-68	<b>260-1025</b>	Exc. Ram Air
1	Kit Gasket Set	67	<b>260-1025</b>	Push rod cover gskt. not incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	79-67	<b>381-8021</b>	
1	Steel Block Plug Kit	79-67	<b>381-4028</b>	
RE-RING KIT			<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION		<i>KIT NO.</i>	<i>KIT NO.</i>
79-71		Re-ring	<b>205-640</b>	<b>205-140</b>
79-71	Incl. grooved upper main brgs.	Re-ring w/Mains	<b>205-640M</b>	<b>205-140M</b>
70-68	Exc. Ram Air	Re-ring	<b>205-640</b>	<b>205-140</b>

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## 6.6L 400 OHV V8 (Pontiac), 4.125" Bore 1979-67 105

VIN Codes "N" 1976, "P" 1972-74, "R" 1972-75, "S" 1972-76, "T" 1972-74, "X" 1967, "Y" 1967, "Z" 1976-79 (cont.)

K I T S	RE-RING KIT (cont.)			PREMIUM	ECONOMY	K I T S	
	YEARS	DESCRIPTION		KIT NO.	KIT NO.		
	70-68	Exc. Ram Air; Incl. grooved upper main brgs.	Re-ring w/Mains	205-640M	205-140M		
	67	Push rod cover gskt. not incl.	Re-ring	205-640	205-140		
	67	Push rod cover gskt. not incl.; Incl. grooved upper main brgs.	Re-ring w/Mains	205-640M	205-140M		
K I T S	OVERHAUL KIT			PREMIUM	ECONOMY	K I T S	
	YEARS	DESCRIPTION		KIT NO.	KIT NO.		
	78-77	Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	505-640E	505-140E		
	78-77	Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.; Incl. grooved upper main brgs.	Master Master w/o Pistons	MKP-640E MK-640E	MKP-140E MK-140E		
	76	VIN Codes "S" & "Z"; w/A/T; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C		
	75	VIN Code "S"; w/A/T; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C		
	74-72	VIN Codes "S" & "T"; w/A/T; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C		
	71	Eng. Codes "WK", "WT" & "YS"; w/A/T; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C		
	70-69	w/A/T; Exc. Ram Air; w/4 Bbl. Carb.; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C		
68	Grand Prix; w/4 Bbl. Carb.; Hi-Torque; Exc. Ram Air; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Rods & Mains	----	505-140C			

## 6.6L 400 OHV V8 (Buick), 4.1875" Bore 1966-65 106

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E  T R A I N
	1	Timing Chain	66-65	222-491	52 Links	
	1	Crank Sprocket	66-65	223-276	19 Teeth	
	1	Cam Sprocket	66-65	223-332N	Nylon; 38 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	66-65	CS-564		
	16	Lifter	66-65	HT-896 Std Only	Hyd.	
	16	Lifter, Bulk	66-65	HT-896B Std Only	Hyd.; Carton of 126	
	1	Prelube	66-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod	66-65	RP-3173	8.7230" O.A.L.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	66-65	V-1654 Std Only	1.5000" Head Dia., .3715" Stem Dia., 4.7880" O.A.L.		
8	Intake	66-65	V-1415 Std Only	1.8740" Head Dia., .3726" Stem Dia., 4.7953" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	66	VG-628	Exh.; .3745" ID, 2.7500" O.A.L.		
16	Guide	65	VG-628	Exh. & Int.; .3745" ID, 2.7500" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	66-65	VS-527	Inner; 2.0100" Free Height		
16	Spring	66-65	VS-612	Outer; 2.0700" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
16	Valve Stem Seal	66-65	ST-2014	Positive type; Installation requires valve guide machining; PTFE		
16	Valve Stem Seal Bulk	66-65	ST-2014BC	Positive type; Installation requires valve guide machining; Carton of 100; PTFE		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	66-65	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
32	Keeper	66-65	VK-97			
16	Spring Insert	66-65	259-100B	.030"; Carton of 100		
16	Spring Insert	66-65	259-100A	.060"; Carton of 100		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
1	Standard Set	66-65	E-287X Std-30-40	2-5/64, 1-3/16		
8	Standard Single Cylinder Set	66-65	WE-287X Std-30	2-5/64, 1-3/16		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	66	4265M Std-10			

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## 106 6.6L 400 OHV V8 (Buick), 4.1875" Bore 1966-65

(cont.)

BLOCK	ENGINE BEARINGS				BLOCK	
	QTY	(cont.)	YEARS	PART NO.		DESCRIPTION
	1	Rod Set	66	8-3320CP		Std-10-20-30-40
	8	Rod Pair	66	3320CP		Std-10-20-30-40
1	Cam Set	66	1269M	Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	66-65	224-415			
1	Pump Repair Kit	66-65	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions		
1	Pump Repair Kit	66-65	224-519	Use w/224-518TP Thrust Plate kit		

## 107 6.6L 401 OHV V8 (Buick), 4.1875" Bore 1966-59

VALVE TRAIN	TIMING				VALVE TRAIN	
	QTY		YEARS	PART NO.		DESCRIPTION
	1	3 Piece Set	63-61	KT3-359S		Incl. (1) 222-359, (1) 223-323, (1) 223-334
	1	Timing Chain	66-59	222-491		52 Links
	1	Timing Chain	63-61	222-359		54 Links
	1	Crank Sprocket	66-59	223-276		19 Teeth
	1	Crank Sprocket	63-61	223-323		20 Teeth
	1	Cam Sprocket	66-59	223-332N		Nylon; 38 Teeth
	1	Cam Sprocket	63-61	223-334		40 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.		DESCRIPTION
	1	Camshaft	66-59	CS-564		
	16	Lifter	66-59	HT-896		Std Only Hyd.
	16	Lifter, Bulk	66-59	HT-896B		Std Only Hyd.; Carton of 126
	1	Prelube	66-59	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	PUSH ROD	YEARS	PART NO.		DESCRIPTION
	16	Push Rod	66-59	RP-3173		8.7230" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	66-59	V-1654	Std Only 1.5000" Head Dia., .3715" Stem Dia., 4.7880" O.A.L.		
8	Intake	66-59	V-1415	Std Only 1.8740" Head Dia., .3726" Stem Dia., 4.7953" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	66	VG-628	Exh.; .3745" ID, 2.7500" O.A.L.		
16	Guide	65-59	VG-628	Exh. & Int.; .3745" ID, 2.7500" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	66-59	VS-527	Inner; 2.0100" Free Height		
16	Spring	66-59	VS-612	Outer; 2.0700" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
16	Valve Stem Seal	66-59	ST-2014	Positive type; Installation requires valve guide machining; PTFE		
16	Valve Stem Seal Bulk	66-59	ST-2014BC	Positive type; Installation requires valve guide machining; Carton of 100; PTFE		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	66-59	245-1562-1N	Std Only Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth		
8	Exh.	66-59	245-1562-1	Std Only 1.5675" OD, 1.3125" ID, .2160" Depth		
8	Int.	66-59	245-2000-1	Std Only 2.0055" OD, 1.7500" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
32	Keeper	66-59	VK-97			
16	Spring Insert	66-59	259-100B	.030"; Carton of 100		
16	Spring Insert	66-59	259-100A	.060"; Carton of 100		

BLOCK	PISTON				BLOCK	
	QTY		YEARS	PART NO.		DESCRIPTION
	8	Cast Piston	66-59	69P30		30-40-60 Cast; 2-5/64", 1-3/16" Ring Groove, 1.905 plus .374 crown" CD, .9999" Pin Dia., Domed Head - 9.8:1 C.R.
	8	Cast Piston - Individual	66-59	W69P30		30-40-60 Cast; 2-5/64", 1-3/16" Ring Groove, 1.905 plus .374 crown" CD, .9999" Pin Dia., Domed Head - 9.8:1 C.R.
	QTY	RINGS	YEARS	PART NO.		DESCRIPTION
	1	Standard Set	66-59	E-287X		Std-30-40 2-5/64, 1-3/16
	8	Standard Single Cylinder Set	66-59	WE-287X		Std-30 2-5/64, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.		DESCRIPTION
	1	Main Set	66-59	4265M		Std-10
	1	Rod Set	66-59	8-3320CP		Std-10-20-30-40
8	Rod Pair	66-59	3320CP	Std-10-20-30-40		
1	Cam Set	66-59	1269M	Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	66-62	224-415			

**6.6L 402 OHV V8 (Chevrolet), 4.125" Bore 1972-70 108**

VIN Codes "S" 1972, "U" 1972

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	72-70	KT3-501SA	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Chain	72-70	222-501	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	72-70	222-495	Spec. Hi-Perf.; w/4 Bbl. Carb.; Silent type; 50 Links
1	Crank Sprocket	72-70	223-393	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 19 Teeth
1	Cam Sprocket	72-70	223-392	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	72-70	CS-774	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.
1	Performance Cam	72-70	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	72-70	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	72-70	CS-1015R	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	72-70	CS-165R	Spec. Hi-Perf.; w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
16	Lifter	72-70	HT-817 Std Only	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.
16	Lifter	72-70	AT-992 Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.
16	Lifter, Bulk	72-70	HT-817B Std Only	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Carton of 128
16	Lifter, Bulk	72-70	AT-992B Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Carton of 128
1	Prelube	72-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	72-70	KC-774	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-774, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1004R	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1088R	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1015R	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-165R	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-774	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-774, (16) HT-817, (1) KT3-501SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	72-70	RP-3181	Exh.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	72-70	RP-3103	Exh.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	72-70	RP-3215R	Exh.; Chrome-Moly; .375" tube dia.; 9.2520" O.A.L.
8	Push Rod	72-70	RP-3218R	Exh.; Chrome-Moly; .437" tube dia.; 9.2520" O.A.L.
8	Push Rod	72-70	RP-3182	Int.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod	72-70	RP-3104	Int.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	72-70	RP-3216R	Int.; Chrome-Moly; .375" tube dia.; 8.2800" O.A.L.
8	Push Rod	72-70	RP-3217R	Int.; Chrome-Moly; .437" tube dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3181	Exh.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3103	Exh.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3182	Int.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3104	Int.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	72-70	R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk	72-70	R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm	72-70	R-851A	
16	Pivot Ball	72-70	MR-1815	
16	Nut	72-70	MR-1813	7/16" thread
16	Stud	72-70	MR-1910RS	7/16" thread, 1.955" length, .710" depth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	72-71	V-1911 Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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## 108 6.6L 402 OHV V8 (Chevrolet), 4.125" Bore 1972-70

(cont.) VIN Codes "S" 1972, "U" 1972

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	70	V-1911 Std-3-15	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	70	V-1861 Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.8740" Head Dia., .3703" Stem Dia., 5.3622" O.A.L.
8	Exhaust, Bulk	72-71	V-1911B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	70	V-1911B Std-15	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	72-71	V-1912 Std-3-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	70	V-1912 Std-3-15	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	70	V-1905 Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake, Bulk	72-71	V-1912B Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	70	V-1912B Std-15	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
<b>V</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	72-70	VG-688	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide	72-70	VG-689	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	72-70	VG-688B	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk	72-70	VG-689B	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
<b>T</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	72-70	VS-657	Single spring; Incl. damper; 2.1100" Free Height
16	Spring	72-70	VS-708	The spring retainer must be replaced w/O.E. No. 3964264; Double spring; 2.1200" Free Height
<b>R</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	72-70	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	72-70	MV-1769C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	72-70	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	72-70	MV-1769	Umbrella type; Carton of 100; Polyacrylate
<b>A</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	72-70	245-1812-4N Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	72-70	245-1812-4 Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	72-70	245-2250-1 Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; 2.2555" OD, 1.9375" ID, .1855" Depth
<b>I</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	72-70	VK-138	1 groove; Square cut key groove
32	Keeper	72-70	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	72-70	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	72-70	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	72-70	259-103C	.015"; ID 1.030"; Carton of 100
16	Spring Insert	72-70	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	72-70	259-103B	.030"; ID 1.030"; Carton of 100
16	Spring Insert	72-70	259-103BRS	.030"; ID 1.030"; Carton of 500
16	Spring Insert	72-70	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	72-70	259-303ARS	.060"; ID .703"; Carton of 500
16	Spring Insert	72-70	259-103A	.060"; ID 1.030"; Carton of 100
16	Spring Insert	72-70	259-103ARS	.060"; ID 1.030"; Carton of 500
<b>B</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	72-70	402P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.732 plus .125 crown" CD, .9894" Pin Dia., Crowned Head
8	Cast Piston - Individual	72-70	W402P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.732 plus .125 crown" CD, .9894" Pin Dia., Crowned Head
8	Powerforged	71	L-2354F30 * 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .169" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70	L-2354F30 * 30	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .169" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70	L-2383F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .110" high w/1 valve relief. <b>DurOshield® skirt coated piston.</b>

(continued on next page)



**6.6L 402 OHV V8 (Chevrolet), 4.125" Bore 1972-70 108**

VIN Codes "S" 1972, "U" 1972 (cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>PISTON (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Powerforged	70	<b>L-2328F30</b> 30-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .335" high. <b>DurOshield® skirt coated piston.</b>		
	8	Forged Piston - Individual	71	<b>WL-2354F30</b> * 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .169" high. <b>DurOshield® skirt coated piston.</b>		
	8	Forged Piston - Individual	70	<b>WL-2354F30</b> * 30	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .169" high. <b>DurOshield® skirt coated piston.</b>		
	8	Forged Piston - Individual	70	<b>WL-2383F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Flat Head.		
	8	Forged Piston - Individual	70	<b>WL-2328F30</b> 30-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9897" Pin Dia., Domed Head .319" high. <b>DurOshield® skirt coated piston.</b>		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	72-70	<b>E-243K</b> Std-20-30-40-60	2-5/64, 1-3/16		
	1	Standard Set	72-70	<b>E-243X</b> Std-20-30-40-60	2-5/64, 1-3/16		
	8	Premium Single Cylinder Set	72-70	<b>WE-243K</b> Std-20-30-40-60	2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	72-70	<b>WE-243X</b> Std-20-30-40-60	2-5/64, 1-3/16		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Main Set	72-70	<b>4400MA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
	1	Main Set	72-70	<b>7122MA10</b> 10-20-30	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>		
	1	Rod Set	72-70	<b>8-3190A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>		
8	Rod Pair	72-70	<b>3190A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>			
1	Cam Set	72-70	<b>1404M</b> Std Only	Babbitt material; Full round design			
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Oil Pump	72-70	<b>224-4154</b>				
1	Oil Pump	72-70	<b>224-4153</b>	High Volume, check pan for clearance; Use shaft w/steel guide			
1	Inter. Shaft	72-70	<b>224-6154A</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide			
1	Inter. Shaft	72-70	<b>224-6154</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide			
1	Oil Pump Shaft Guide	72-70	<b>224-43343</b>	Nylon			
1	Screen Assy.	72-70	<b>224-43620</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	72-70	<b>260-1009</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.			
1	Kit Gasket Set	72-70	<b>260-1717</b>	Hi-Perf.; w/4 Bbl. Carb.; w/Oval port heads; Header gskts. incl.; Complete set			
1	Kit Gasket Set	72-70	<b>260-1081</b>	Hi-Perf.; w/4 Bbl. Carb.; w/Rectangular port heads; Header gskts. incl.; Complete set			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	72-70	<b>381-8009</b>				
1	Steel Block Plug Kit	72-70	<b>381-4017</b>				
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>					
	72-70	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-661</b>	<b>205-161</b>	
			Re-ring w/Mains		<b>205-661M</b>	<b>205-161M</b>	
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>					
72-70	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-661A</b>	<b>505-161A</b>		
72-70	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. silent type chain	Master		<b>MKP-661A</b>	<b>MKP-161A</b>		
		Master w/o Pistons		<b>MK-661A</b>	<b>MK-161A</b>		

**6.6L 403 OHV V8 (Oldsmobile), 4.351" Bore 1979-77 109**

VIN Code "K" 1977-79

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	79-77	<b>KT3-498SA3</b>	Incl. (1) 222-498, (1) 223-348, (1) 223-349
1	Timing Set w/Gaskets	79-77	<b>CTS-1005</b>	
1	Timing Chain	79-77	<b>222-498</b>	48 Links
1	Crank Sprocket	79-77	<b>223-349</b>	18 Teeth
1	Cam Sprocket	79-77	<b>223-348</b>	36 Teeth

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## 109 6.6L 403 OHV V8 (Oldsmobile), 4.351" Bore 1979-77

(cont.) VIN Code "K" 1977-79

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	79-77	CS-707	
16	Lifter	79-77	HT-951 Std Only	Hyd.
16	Lifter, Bulk	79-77	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	79-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	79-77	KC-707	Hyd.; Incl. (1) CS-707, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-77	KCT-707	Hyd.; Incl. (1) CS-707, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	79-77	RP-3174	8.2340" O.A.L.
16	Push Rod, Bulk	79-77	BRP-3174	Carton of 100; 8.2340" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	79-77	R-856	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	79-77	R-856B	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	79-77	R-856A	
8	Pivot	79-77	MR-1903	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	79-77	V-2061 Std-15	Chrome plated stem; 1.5020" Head Dia., .3423" Stem Dia., 4.6880" O.A.L.
8	Exhaust, Bulk	79-77	V-2061B15 15	Chrome plated stem; Carton of 25; 1.5020" Head Dia., .3573" Stem Dia., 4.6880" O.A.L.
8	Intake	79-77	V-2304 Std Only	Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	79-77	V-1775 Std Only	1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	79-77	VG-5038	.3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	79-77	VG-5038B	Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	79-77	VS-721	1.9600" Free Height
16	Spring, Bulk	79-77	VS-721B	Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	79-77	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	79-77	MV-1819C	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	79-77	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	79-77	MV-1819	Int.; Umbrella type; Carton of 50; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	79-77	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	79-77	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	79-77	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	79-77	VK-115	1 groove; Square cut key groove
32	Keeper	79-77	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	79-77	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	79-77	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	79-77	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	79-77	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	79-77	259-303ARS	.060"; ID .703"; Carton of 500
8	Rotocap	79-77	RC-140	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	79-77	466NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.595" CD, .9804" Pin Dia., Recessed Head .150" deep x 3.250" dia. - 7.9:1 C.R.
8	Cast Piston	79-77	466P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.595" CD, .9804" Pin Dia., Recessed Head .150" deep x 3.250" dia. - 7.9:1 C.R.; When depleted use 466NP
8	Cast Piston - Individual	79-77	W466NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.595" CD, .9804" Pin Dia., Recessed Head .150" deep x 3.250" dia. - 7.9:1 C.R.
8	Cast Piston - Individual	79-77	W466P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.595" CD, .9804" Pin Dia., Recessed Head .150" deep x 3.250" dia. - 7.9:1 C.R.; When depleted use W466NP
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-77	E-378K Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	79-77	E-378X Std-20-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	79-77	WE-378K Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	79-77	WE-378X Std-20-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-77	4281M Std-1-10-20-30-40	3.824" max. flange OD

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**6.6L 403 OHV V8 (Oldsmobile), 4.351" Bore 1979-77 109**

VIN Code "K" 1977-79 (cont.)

<b>B L O C K</b>	<b>ENGINE BEARINGS</b>				
	QTY	(cont.)	YEARS	PART NO.	DESCRIPTION
	1	Rod Set	79-77	<b>8-3045A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Rod Set	79-77	<b>8-3045A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
	1	Rod Set	79-77	<b>8-3045APA</b> Std-1	Overplated alum. alloy
	1	Rod Set	79-77	<b>8-3045APA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy
	8	Rod Pair	79-77	<b>3045A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
	8	Rod Pair	79-77	<b>3045APA</b> Std Only	Overplated alum. alloy
	1	Cam Set	79-78	<b>1466M</b> Std Only	Full round design
	1	Cam Set	79-78	<b>1787M</b> Std Only	O.E. split type design
1	Cam Set	77	<b>1234M</b> Std Only	Babbitt material; Full round design	
1	Cam Set	77	<b>1789M</b> Std Only	O.E. split type design	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	79-77	<b>224-41203</b>		
1	Oil Pump	79-77	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen	
1	Inter. Shaft	79-77	<b>224-61203</b>		
1	Screen Assy.	79-77	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump	
1	Screen Assy.	79-77	<b>224-11203</b>	5/8" inlet tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	79-77	<b>260-1104</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	79-77	<b>260-4001</b>		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	79-77	<b>381-8047</b>		
1	Steel Block Plug Kit	79-77	<b>381-4020</b>		

<b>K I T S</b>	<b>RE-RING KIT</b>				
	YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	79-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/3.824" max. brg. flange OD; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-695M</b>	<b>205-195M</b>
	79-77	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-695</b>	<b>205-195</b>
	<b>OVERHAUL KIT</b>				
	YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	79-78	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-695A</b>	<b>505-195A</b>
79-78	Int. manifold gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; w/3.824" max. brg. flange OD	Master Master w/o Pistons	<b>MKP-695B</b> <b>MK-695B</b>	<b>MKP-195B</b> <b>MK-195B</b>	

**6.7L 409 OHV V8 (Chevrolet), 4.3125" Bore 1965-61 110**

<b>V A L V E  T R A I N</b>	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	65-62	<b>222-494</b>	48 Links
	1	Crank Sprocket	65-62	<b>223-262</b>	18 Teeth
	1	Cam Sprocket	65-62	<b>223-261</b>	36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	65-63	<b>CS-171</b>	w/4 Bbl. Carb.; Use w/Hyd. lifters
	16	Lifter	65-63	<b>AT-992</b> Std Only	w/3-2 Bbl. Carbs.; Mech.
	16	Lifter	65-63	<b>HT-817</b> Std Only	w/4 Bbl. Carb.; Hyd.
	16	Lifter	62-61	<b>AT-992</b> Std Only	Mech.
	16	Lifter, Bulk	65-63	<b>AT-992B</b> Std Only	w/3-2 Bbl. Carbs.; Mech.; Carton of 128
16	Lifter, Bulk	65-63	<b>HT-817B</b> Std Only	w/4 Bbl. Carb.; Hyd.; Carton of 128	
16	Lifter, Bulk	62-61	<b>AT-992B</b> Std Only	Mech.; Carton of 128	
1	Prelube	65-63	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
8	Push Rod	65-62	<b>RP-3028</b>	Exh.; w/4 Bbl. Carb.; 9.1360" O.A.L.	
16	Push Rod	65-62	<b>RP-3318</b>	Exh. & Int.; w/4 Bbl. Carb.; 8.8300" O.A.L.	
8	Push Rod	65-62	<b>RP-3102</b>	Int.; w/4 Bbl. Carb.; 8.7780" O.A.L.	
8	Push Rod, Bulk	65-62	<b>BRP-3028</b>	Exh.; w/4 Bbl. Carb.; Carton of 100; 9.1360" O.A.L.	
8	Push Rod, Bulk	65-62	<b>BRP-3102</b>	Int.; w/4 Bbl. Carb.; Carton of 25; 8.7780" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm Assy.	65-61	<b>R-827</b>	Incl. arm, ball & nut	
16	Pivot Ball	65-61	<b>MR-1780</b>		
16	Nut	65-61	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads	
16	Stud	65-61	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"	
16	Stud	65-61	<b>MR-1949</b>	3/8" x 24 x 2.495"	

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## 110 6.7L 409 OHV V8 (Chevrolet), 4.3125" Bore 1965-61

(cont.)

VALVE TRAIN		QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
		8	Guide	65-61	VG-5033	Exh.; w/4 Bbl. Carb.; Exc. Chrome plated valve stem; .3735" ID, 2.6200" O.A.L.		
8	Guide	65-61	VG-5062	Int.; Plain; .3735" ID, 2.3800" O.A.L.				
VALVE TRAIN		QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
		8	Spring	65-64	VS-521	Outer; W/4 Bbl. Carb.; Incl. damper; 2.1090" Free Height		
8	Spring	63-62	VS-521	Outer; Incl. damper; 2.1090" Free Height				
VALVE TRAIN		QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
		16	Valve Stem Seal	65-61	ST-2002	Installation requires valve guide machining; Polyacrylate		
16	Valve Stem Seal Bulk	65-61	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate				
VALVE TRAIN		QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
		8	Exh.	65-62	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth		
		8	Exh.	65-62	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth		
8	Int.	65-62	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth				
VALVE TRAIN		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
		32	Keeper	65-62	VK-138	1 groove; Square cut key groove		
		32	Keeper	65-62	VK-138R	1 groove; Square cut key groove; Hardened		
		32	Keeper, Bulk	65-62	VK-138B	1 groove; Square cut key groove; Carton of 1000		
		16	Spring Insert	65-62	259-103C	.015"; ID 1.030"; Carton of 100		
		16	Spring Insert	65-62	259-103B	.030"; ID 1.030"; Carton of 100		
		16	Spring Insert	65-62	259-103BRS	.030"; ID 1.030"; Carton of 500		
		16	Spring Insert	65-62	259-103A	.060"; ID 1.030"; Carton of 100		
16	Spring Insert	65-62	259-103ARS	.060"; ID 1.030"; Carton of 500				
BLOCK		QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
		1	Premium Set	65-62	E-289K Std-30-40-60	2-5/64, 1-3/16		
		1	Standard Set	65-62	E-289X Std-30	2-5/64, 1-3/16		
		8	Premium Single Cylinder Set	65-62	WE-289K30 30-60	2-5/64, 1-3/16		
		8	Standard Single Cylinder Set	65-62	WE-289X Std-30	2-5/64, 1-3/16		
		BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
				1	Main Set	65-62	4036M Std-10-20	
				1	Rod Set	65-62	8-3190A Std-1-2-10-20-30-40-60	A-Series aluminum bearings
8	Rod Pair			65-62	3190A Std-1-2-10-20-30-40-50-60	A-Series aluminum bearings		
1	Cam Set	65-62	1177M Std Only					
BLOCK		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
		1	Oil Pump	65-62	224-4146A	High Pressure; 5/8" inlet		
		1	Oil Pump	65-62	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide		
		1	Oil Pump	65-62	224-4146	5/8" inlet		
		1	Oil Pump Shaft Guide	65-62	224-43343	Nylon		
		1	Screen Assy.	65-62	224-1146	5/8" inlet		

## 111 6.9L 421 OHV V8 (Pontiac), 4.0938" Bore 1966-61

VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	3 Piece Set	66-63	KT3-350S	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	66-63	222-350	60 Links		
VALVE TRAIN		QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
		1	Camshaft	66	CS-641	Eng. Codes "WG", "WK", "YH" & "YT"
		1	Camshaft	65	CS-641	Eng. Codes "WG" & "YH"
		16	Lifter	66-63	HT-951 Std Only	Hyd.
		16	Lifter, Bulk	66-63	HT-951B Std Only	Hyd.; Carton of 128
1	Pre-lube	66-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
VALVE TRAIN		QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
		1	Cam/Lifter Kit	66	KC-641	Eng. Codes "WG", "WK", "YH" & "YT"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
		1	Cam/Lifter Kit	65	KC-641	Eng. Codes "WG" & "YH"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
		1	Cam/Lifter/Timing Kit	66	KCT-641	Eng. Codes "WG", "WK", "YH" & "YT"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	65	KCT-641	Eng. Codes "WG" & "YH"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B		
VALVE TRAIN		QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
		16	Push Rod	66-63	RP-3213R	Chrome-Moly; 8.6900" O.A.L.
		16	Push Rod	66-63	RP-3164	8.6930" O.A.L.
		16	Push Rod	66-63	RP-316435	8.7280" O.A.L.
16	Push Rod	66-63	RP-316460	8.7530" O.A.L.		

(continued on next page)

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod, Bulk	66-63	BRP-3164	Carton of 100; 8.6930" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	66	R-848	Eng. Codes "WG", "WK", "YH" & "YT"; Incl. arm & ball
16	Arm Assy.	65	R-848	Eng. Codes "WG" & "YH"; Incl. arm & ball
16	Arm Assy.	64	R-848	Eng. Codes "35B", "38S" & "43N"; Incl. arm & ball
16	Arm Assy.	63	R-848	Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"; Incl. arm & ball
16	Arm	66	R-848A	Eng. Codes "WG", "WK", "YH" & "YT"
16	Arm	65	R-848A	Eng. Codes "WG" & "YH"
16	Arm	64	R-848A	Eng. Codes "35B", "38S" & "43N"
16	Arm	63	R-848A	Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	66-63	V-1813 Std Only	Chrome plated stem; 1.6400" Head Dia., .3410" Stem Dia., 4.8760" O.A.L.
8	Intake	66-63	V-1743 Std Only	1.9190" Head Dia., .3407" Stem Dia., 4.8940" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	66	VS-651	Inner; Eng. Codes "WG", "WK", "YH" & "YT"; 1.7600" Free Height
16	Spring	66	VS-665	Outer; Eng. Codes "WG", "WK", "YH" & "YT"; 1.9400" Free Height
16	Spring	65	VS-651	Inner; Eng. Codes "WG" & "YH"; 1.7600" Free Height
16	Spring	65	VS-665	Outer; Eng. Codes "WG" & "YH"; 1.9400" Free Height
16	Spring	64	VS-445	Inner; Eng. Codes "35B", "38S" & "43N"; 1.8120" Free Height
16	Spring	64	VS-446	Outer; Eng. Codes "35B", "38S" & "43N"; 1.9800" Free Height
16	Spring	63	VS-445	Inner; Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"; 1.8120" Free Height
16	Spring	63	VS-446	Outer; Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"; 1.9800" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	66-63	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	66-63	ST-2092	Positive type; Rubber
12	Valve Stem Seal	66	MV-1233C	Eng. Codes "WG", "WK", "YH" & "YT"; O-Ring; Rubber
12	Valve Stem Seal	65	MV-1233C	Eng. Codes "WG" & "YH"; O-Ring; Rubber
12	Valve Stem Seal	64	MV-1233C	Eng. Codes "35B", "38S" & "43N"; O-Ring; Rubber
16	Valve Stem Seal	63	MV-1233C	Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"; O-Ring; Rubber
16	Valve Stem Seal Bulk	66	MV-1233	Eng. Codes "WG", "WK", "YH" & "YT"; O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	66-63	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
12	Valve Stem Seal Bulk	65	MV-1233	Eng. Codes "WG" & "YH"; O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	64	MV-1233	Eng. Codes "35B", "38S" & "43N"; O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	63	MV-1233	Eng. Codes "08B", "125", "22B", "25G", "34J", "43N" & "47Q"; O-Ring; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	66-63	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	66-63	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	66-63	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	66-63	VK-115	1 groove; Square cut key groove
32	Keeper	66-63	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	66-63	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	66-63	259-301A	.060"; Carton of 100
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	66-63	E-232K Std-30-40-60	2-5/64, 1-3/16
1	Standard Set	66-63	E-232X Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	66-63	WE-232K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	66-63	WE-232X Std-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	66-61	4221M Std-10-20-30	
1	Rod Set	66-61	8-1555CPA Std-10-20-30-40	
8	Rod Pair	66-61	1555CPA Std-1-10-20-30-40	
1	Cam Set	66-63	1220M Std Only	
1	Cam Set	62-61	1146M Std Only	

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GM Car

## 111 6.9L 421 OHV V8 (Pontiac), 4.0938" Bore 1966-61

(cont.)

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Oil Pump	66-63	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen	
	1	Inter. Shaft	66-63	224-61236		
	1	Screen Assy.	66-63	224-11236	3/4" inlet tube	
	1	Screen Assy.	66-63	224-11232	5/8" inlet tube	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	66-63	381-8021			
1	Steel Block Plug Kit	66-63	381-4028			

## 112 7.0L 425 OHV V8 (Cadillac), 4.082" Bore 1979-77

VIN Codes "S" 1977-79, "T" 1977-79

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	79-77	KT3-498SA1	Incl. (1) 222-498, (1) 223-404, (1) 223-405	
	1	Timing Chain	79-77	222-498	48 Links	
	1	Crank Sprocket	79-77	223-405	18 Teeth	
	1	Cam Sprocket	79-77	223-404	36 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	79-77	CS-656		
	16	Lifter	79-77	HT-969 Std Only	Hyd.; w/.440" wide oil groove	
	16	Lifter, Bulk	79-77	HT-969B Std Only	Hyd.; Carton of 128	
	1	Prelube	79-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Lifter Kit	79-77	KC-656	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) 55-403B		
1	Cam/Lifter/Timing Kit	79-77	KCT-656	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) KT3-498SA1, (1) 55-403B		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
16	Push Rod	79-77	RP-3178	10.1980" O.A.L.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Pivot	79-77	MR-1914			
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	79-77	VS-485	2.2500" Free Height		
16	Retainer	79-77	VSR-7013			
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
16	Valve Stem Seal	79-77	ST-2003	Positive type; Installation requires valve guide machining; Rubber		
16	Valve Stem Seal	79-77	ST-2092	Positive type; Rubber		
16	Valve Stem Seal Bulk	79-77	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	79-77	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth		
8	Exh.	79-77	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth		
8	Int.	79-77	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
32	Keeper	79-77	VK-115	1 groove; Square cut key groove		
32	Keeper	79-77	VK-115R	1 groove; Square cut key groove; Hardened		
32	Keeper, Bulk	79-77	VK-115B	1 groove; Square cut key groove; Carton of 1000		
16	Spring Insert	79-77	259-303C	.015"; ID .703"; Carton of 100		
16	Spring Insert	79-77	259-303B	.030"; ID .703"; Carton of 100		
16	Spring Insert	79-77	259-303A	.060"; ID .703"; Carton of 100		
16	Spring Insert	79-77	259-303ARS	.060"; ID .703"; Carton of 500		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	8	Cast Piston	79-77	473P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 2.005" CD, .9996" Pin Dia., Flat Head - 8.2:1 C.R.	
	8	Cast Piston - Individual	79-77	W473P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 2.005" CD, .9996" Pin Dia., Flat Head - 8.2:1 C.R.	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	8	Standard Single Cylinder Set	79-77	WE-380X Std-30	2-5/64, 1-3/16	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	79-77	4906MA Std-10-20-30	A-Series aluminum bearings	
	1	Main Set	79-77	7430MA40 40	A-Series aluminum bearings; w/.020" O/S length flange brg.	
	1	Rod Set	79-77	8-3345P Std-1-10-20-30-40		
	8	Rod Pair	79-77	3345P Std-1-10-20-30-40		
1	Cam Set	79-77	1216M Std Only			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Pump Repair Kit	79-77	224-5128			

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# GM Car

## 7.0L 425 OHV V8 (Cadillac), 4.082" Bore 1979-77 **112**

VIN Codes "S" 1977-79, "T" 1977-79 (cont.)

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	79-77	381-8004	
<b>7.0L 425 OHV V8 (Oldsmobile), 4.125" Bore 1967-65 <b>113</b></b>				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67-65	KT3-494SA5	Incl. (1) 222-494, (1) 223-360, (1) 223-361
1	Timing Chain	67-65	222-494	48 Links
1	Crank Sprocket	67-65	223-361	18 Teeth
1	Cam Sprocket	67-65	223-360	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	67-66	HT-951 Std Only	Exc. Toronado; Hyd.
16	Lifter	65	HT-951 Std Only	Hyd.
16	Lifter, Bulk	67-66	HT-951B Std Only	Exc. Toronado; Hyd.; Carton of 128
16	Lifter, Bulk	65	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	67-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	67	RP-3200	9.6210" O.A.L.
16	Push Rod	66	RP-3171	Exc. Toronado; 9.5940" O.A.L.
16	Push Rod	66-65	RP-3112	Toronado; 9.4210" O.A.L.
16	Push Rod	65	RP-3171	9.5940" O.A.L.
16	Push Rod, Bulk	67	BRP-3200	Carton of 100; 9.6210" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	67-65	R-856	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	67-65	R-856B	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	67-65	R-856A	
8	Pivot	67-65	MR-1903	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	67-66	V-1772 Std Only	Toronado; Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	65	V-1772 Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Intake	67-66	V-2304 Std Only	Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	67-66	V-1775 Std Only	1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	65	V-1775 Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	67-65	VG-5038	.3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	67-65	VG-5038B	Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	67-65	VS-1618R	Incl. damper; 1.9940" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	67-65	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal Bulk	67-65	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	67-65	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	67-65	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	67-65	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-65	VK-115	1 groove; Square cut key groove
32	Keeper	67-65	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-65	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-65	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	67-65	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	67-65	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	67-65	259-303ARS	.060"; ID .703"; Carton of 500
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	67-65	E-243K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	67-65	E-243X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	67-65	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	67-65	WE-243X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-65	4294M Std-1-10-20-30	
1	Rod Set	67-65	8-3345P Std-1-10-20-30-40	
8	Rod Pair	67-65	3345P Std-1-10-20-30-40	
1	Cam Set	67-65	1234M Std Only	Babbitt material; Full round design

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

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# GM Car

## 113 7.0L 425 OHV V8 (Oldsmobile), 4.125" Bore 1967-65

(cont.)

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Oil Pump	67-65	224-41203		
	1	Oil Pump	67-65	224-41203V	High Volume, check pan for clearance; Use w/224-11203V screen	
	1	Inter. Shaft	67-65	224-61203		
	1	Screen Assy.	67-65	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump	
	1	Screen Assy.	67-65	224-12203	Press-in tube	
1	Screen Assy.	67-65	224-11203	5/8" inlet tube		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	67-65	260-1008	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	67-65	260-4021			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	67-65	381-8020			
1	Steel Block Plug Kit	67-65	381-4020			
RE-RING KIT					PREMIUM	ECONOMY
YEARS	DESCRIPTION				KIT NO.	KIT NO.
67-65	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring			205-674	205-174

## 114 7.0L 425 OHV V8 (Buick), 4.3125" Bore 1966-63

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Chain	66-63	222-491	52 Links	
	1	Crank Sprocket	66-63	223-276	19 Teeth	
	1	Cam Sprocket	66-63	223-332N	Nylon; 38 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	66-63	CS-564		
	16	Lifter	66-63	HT-896 Std Only	Hyd.	
	16	Lifter, Bulk	66-63	HT-896B Std Only	Hyd.; Carton of 126	
	1	Prelube	66-63	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	66-63	RP-3173	8.7230" O.A.L.	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	8	Exhaust	66-63	V-1654 Std Only	1.5000" Head Dia., .3715" Stem Dia., 4.7880" O.A.L.	
	8	Intake	66-63	V-1415 Std Only	1.8740" Head Dia., .3726" Stem Dia., 4.7953" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	8	Guide	66	VG-628	Exh.; .3745" ID, 2.7500" O.A.L.	
16	Guide	65-63	VG-628	Exh. & Int.; .3745" ID, 2.7500" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	66-63	VS-527	Inner; 2.0100" Free Height		
16	Spring	66-63	VS-612	Outer; 2.0700" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
16	Valve Stem Seal	66-63	ST-2014	Positive type; Installation requires valve guide machining; PTFE		
16	Valve Stem Seal Bulk	66-63	ST-2014BC	Positive type; Installation requires valve guide machining; Carton of 100; PTFE		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	66-63	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth		
8	Exh.	66-63	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth		
8	Int.	66-63	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
32	Keeper	66-63	VK-97			
16	Spring Insert	66-63	259-100B	.030"; Carton of 100		
16	Spring Insert	66-63	259-100A	.060"; Carton of 100		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	66-63	E-289K Std-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	66-63	E-289X Std-30	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	66-63	WE-289K30 30-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	66-63	WE-289X Std-30	2-5/64, 1-3/16	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	66-64	4265M Std-10		
	1	Rod Set	66-63	8-3320CP Std-10-20-30-40		
	8	Rod Pair	66-63	3320CP Std-10-20-30-40		
1	Cam Set	66-63	1269M Std Only			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	66-63	224-415			



**7.0L 427 OHV V8 (Chevrolet), 4.25" Bore 1969-66 115**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	KT3-501SA	w/3-2 Bbl. Carbs.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	3 Piece Set	66	KT3-501SA	w/3-2 Bbl. Carbs.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Chain	69-67	222-501	w/3-2 Bbl. Carbs.; Silent type; 50 Links
1	Timing Chain	69-67	222-495	w/4 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	66	222-501	w/3-2 Bbl. Carbs.; Silent type; 50 Links
1	Timing Chain	66	222-495	w/4 Bbl. Carb.; Silent type; 50 Links
1	Crank Sprocket	69-67	223-393	w/3-2 Bbl. Carbs.; 19 Teeth
1	Crank Sprocket	66	223-393	w/3-2 Bbl. Carbs.; 19 Teeth
1	Cam Sprocket	69-67	223-392	w/3-2 Bbl. Carbs.; 38 Teeth
1	Cam Sprocket	66	223-392	w/3-2 Bbl. Carbs.; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69	CS-636	w/3-2 Bbl. Carbs.
1	Performance Cam	69	CS-165R	w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	69-67	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	69-67	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	69-67	CS-1015R	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	68-67	CS-165R	w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	66	CS-165R	w/4 Bbl. Carb.; NOTE: Eng. require a 3/16" wide by 7/16" deep groove machined in the rear journal; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	66	CS-1004R	NOTE: An oil groove must be machined in the rear journal; Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	66	CS-1088R	NOTE: An oil groove must be machined in the rear journal; Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	66	CS-1015R	NOTE: An oil groove must be machined in the rear journal; Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
16	Lifter	69-66	HT-817 Std Only	w/3-2 Bbl. Carbs.; Hyd.
16	Lifter	69-66	AT-992 Std Only	w/4 Bbl. Carb.; Mech.
16	Lifter, Bulk	69-66	HT-817B Std Only	w/3-2 Bbl. Carbs.; Hyd.; Carton of 128
16	Lifter, Bulk	69-66	AT-992B Std Only	w/4 Bbl. Carb.; Mech.; Carton of 128
1	Prelube	69-66	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69	KC-636	w/3-2 Bbl. Carbs.; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69	KC-165R	w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter Kit	69-67	KC-1004R	w/3-2 Bbl. Carbs.; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-67	KC-1088R	w/3-2 Bbl. Carbs.; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-67	KC-1015R	w/3-2 Bbl. Carbs.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-67	KC-165R	w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B

**VALVE TRAIN**

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(cont.)

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	66	KC-1004R	w/3-2 Bbl. Carbs.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66	KC-1088R	w/3-2 Bbl. Carbs.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66	KC-1015R	w/3-2 Bbl. Carbs.; NOTE: An oil groove must be machined in the rear journal; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	66	KC-165R	w/4 Bbl. Carb.; Requires 3/16 wide by 7/16 deep groove machined in rear journal; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter/Timing Kit	69	KCT-636A	w/3-2 Bbl. Carbs.; Hyd.; Incl. (1) CS-636, (16) HT-817, (1) KT3-501SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	69-66	RP-3181	Exh.; w/3-2 Bbl. Carbs.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	69-66	RP-3103	Exh.; w/4 Bbl. Carb.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	69-66	RP-3215R	Exh.; Chrome-Moly; .375" tube dia.; 9.2520" O.A.L.
8	Push Rod	69-66	RP-3218R	Exh.; Spec. Hi-Perf.; Chrome-Moly; .437" tube dia.; 9.2520" O.A.L.
8	Push Rod	69-66	RP-3182	Int.; w/3-2 Bbl. Carbs.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod	69-66	RP-3104	Int.; w/4 Bbl. Carb.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	69-66	RP-3216R	Int.; w/4 Bbl. Carb.; Chrome-Moly; .375" tube dia.; 8.2800" O.A.L.
8	Push Rod	69-66	RP-3217R	Int.; w/4 Bbl. Carb.; Chrome-Moly; .437" tube dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	69-66	BRP-3181	Exh.; w/3-2 Bbl. Carbs.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	69-66	BRP-3103	Exh.; w/4 Bbl. Carb.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	69-66	BRP-3182	Int.; w/3-2 Bbl. Carbs.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
8	Push Rod, Bulk	69-66	BRP-3104	Int.; w/4 Bbl. Carb.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	69-66	R-866R	w/4 Bbl. Carb.; Incl. arm, ball & nut; Long slot rocker arm
16	Arm Assy.	69-66	R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-66	R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm	69-66	R-851A	
16	Pivot Ball	69-66	MR-1815	
16	Nut	69-66	MR-1813	7/16" thread
16	Stud	69-66	MR-1910RS	7/16" thread, 1.955" length, .710" depth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69	V-1911 Std-3-15	w/3-2 Bbl. Carbs.; w/Alum. head; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	69-68	V-1861 Std Only	w/4 Bbl. Carb.; Chrome plated stem; 1.8740" Head Dia., .3703" Stem Dia., 5.3622" O.A.L.
8	Exhaust	68	V-1911 Std-3-15	w/3-2 Bbl. Carbs.; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	67-66	V-1911 Std-3-15	w/3-2 Bbl. Carbs.; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	69	V-1911B Std-15	w/3-2 Bbl. Carbs.; w/Alum. head; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	68	V-1911B Std-15	w/3-2 Bbl. Carbs.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	67-66	V-1911B Std-15	w/3-2 Bbl. Carbs.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	69-68	V-1912 Std-3-15	w/3-2 Bbl. Carbs.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	69-68	V-1905 Std Only	w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake	67-66	V-1912 Std-3-15	w/3-2 Bbl. Carbs.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.

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<b>QTY</b>	<b>VALVE (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Intake	67-66	<b>V-1905</b> Std Only	w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake, Bulk	69-68	<b>V-1912B</b> Std-15	w/3-2 Bbl. Carbs.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	67-66	<b>V-1912B</b> Std-15	w/3-2 Bbl. Carbs.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	69-66	<b>VG-688</b>	Exh.; w/Cast iron head; .3740" ID, 2.6300" O.A.L.
16	Guide	69-66	<b>VG-689</b>	Exh. & Int.; w/Alum. head; .3735" ID, 2.4200" O.A.L.
8	Guide	69-66	<b>VG-689</b>	Int.; w/Cast iron head; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	69-66	<b>VG-688B</b>	Exh.; w/Cast iron head; Carton of 50; .3740" ID, 2.6300" O.A.L.
16	Guide, Bulk	69-66	<b>VG-689B</b>	Exh. & Int.; w/Alum. head; Carton of 50; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	69-66	<b>VG-689B</b>	Int.; w/Cast iron head; Carton of 50; .3735" ID, 2.4200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	69-68	<b>VS-657</b>	w/3-2 Bbl. Carbs.; Single spring; Incl. damper; 2.1100" Free Height
16	Spring	69-68	<b>VS-1581</b>	w/4 Bbl. Carb.; Assy. of inner & outer w/damper; 2.2800" Free Height
8	Spring	67-66	<b>VS-708</b>	Double spring; 2.1200" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	69-66	<b>ST-2014</b>	w/double valve spring; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	69-66	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	69-66	<b>ST-2019R</b>	Positive type; Premium design; PTFE
16	Valve Stem Seal	69-66	<b>MV-1769C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk	69-66	<b>ST-2014BC</b>	w/double valve spring; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	69-66	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	69-66	<b>ST-2019RBC</b>	Positive type; Premium design; Carton of 100; PTFE
16	Valve Stem Seal Bulk	69-66	<b>MV-1769</b>	Umbrella type; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	69-66	<b>245-1812-4N</b> Std Only	w/3-2 Bbl. Carbs.; Exc. Alum. head; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	69-66	<b>245-1812-4</b> Std Only	w/3-2 Bbl. Carbs.; Exc. Alum. head; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	69-66	<b>245-2250-1</b> Std Only	w/3-2 Bbl. Carbs.; Exc. Alum. head; 2.2555" OD, 1.9375" ID, .1855" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	69-66	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	69-66	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-66	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-66	<b>259-103C</b>	.015"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103B</b>	.030"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103BRS</b>	.030"; ID 1.030"; Carton of 500
16	Spring Insert	69-66	<b>259-103A</b>	.060"; ID 1.030"; Carton of 100
16	Spring Insert	69-66	<b>259-103ARS</b>	.060"; ID 1.030"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	69-66	<b>412P</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Cast; Used on both banks; 2-5/64", 1-3/16" Ring Groove, 1.755 plus .140 crown" CD, .9894" Pin Dia., Crowned Head .140" high - 9.5:1 C.R.
8	Cast Piston - Individual	69-66	<b>W412P</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Cast; Used on both banks; 2-5/64", 1-3/16" Ring Groove, 1.755 plus .140 crown" CD, .9894" Pin Dia., Crowned Head .140" high - 9.5:1 C.R.
8	Powerforged	69	<b>L-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; w/Alum. head; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	69	<b>L-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .300" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68	<b>L-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68	<b>L-2239NF30</b> 30-60	w/4 Bbl. Carb.; Powerforged; Use w/R-9904 ring set; 2-1/16", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .454" high.

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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(cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Powerforged	68	<b>L-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .300" high. <b>DurOshield® skirt coated piston.</b>	
8	Powerforged	67-66	<b>L-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>	
8	Powerforged	67-66	<b>L-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .300" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	69	<b>WL-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; w/Alum. head; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	69	<b>WL-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .266" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	68	<b>WL-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	68	<b>WL-2239NF30</b> 30-60	w/4 Bbl. Carb.; Powerforged; Use w/WR-9904 ring set; 2-1/16", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .438" high.	
8	Forged Piston - Individual	68	<b>WL-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .266" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	67-66	<b>WL-2300F</b> Std-30-40-60	w/3-2 Bbl. Carbs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.767" CD, .9894" Pin Dia., Domed Head .140" high. <b>DurOshield® skirt coated piston.</b>	
8	Forged Piston - Individual	67-66	<b>WL-2268F</b> Std-30-60	w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.765" CD, .9894" Pin Dia., Domed Head .266" high. <b>DurOshield® skirt coated piston.</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	69-66	<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	69-66	<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	69-66	<b>WE-233K</b> Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	68	<b>WR-9904</b> Std-30-60	Use w/WL-2239NF 30 piston	
8	Standard Single Cylinder Set	69-66	<b>WE-233X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	69-66	<b>4400MA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Main Set	69-66	<b>7122MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; w/.020" O/S length flange brg.	
1	Rod Set	69-66	<b>8-3190A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
8	Rod Pair	69-66	<b>3190A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Cam Set	69-67	<b>1404M</b> Std Only	Babbitt material; Full round design	
1	Cam Set	66	<b>1255M</b> Std Only	Groove in rear cam journal & brg.	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	69-66	<b>224-4154</b>	High Volume, check pan for clearance; Use shaft w/steel guide	
1	Oil Pump	69-66	<b>224-4153</b>		
1	Inter. Shaft	69-66	<b>224-6154A</b>	w/3-2 Bbl. Carbs.; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide	
1	Inter. Shaft	69-66	<b>224-6154</b>	w/4 Bbl. Carb.; Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide	
1	Oil Pump Shaft Guide	69-66	<b>224-43343</b>	Nylon	
1	Screen Assy.	69-67	<b>224-43620</b>		
1	Screen Assy.	66	<b>224-1252</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	69-66	<b>260-1009</b>	w/3-2 Bbl. Carbs.; Premium valve stem seals incl.	
1	Kit Gasket Set	69-66	<b>260-1717</b>	w/4 Bbl. Carb.; w/Oval port heads; Header gskts. incl.; Complete set	
1	Kit Gasket Set	69-66	<b>260-1081</b>	w/4 Bbl. Carb.; w/Rectangular port heads; Header gskts. incl.; Complete set	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	69-66	<b>381-8009</b>		
1	Steel Block Plug Kit	69-66	<b>381-4017</b>		
RE-RING KIT				PREMIUM	ECONOMY
YEARS	DESCRIPTION			KIT NO.	KIT NO.
69-66	w/3-2 Bbl. Carbs.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring	<b>205-613</b>	<b>205-113</b>
			Re-ring w/Mains	<b>205-613M</b>	<b>205-113M</b>

**7.0L 428 OHV V8 (Pontiac), 4.125" Bore 1969-67 116**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	<b>KT3-350S</b>	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	69-67	<b>222-350</b>	60 Links
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	69-68	<b>CS-641</b>	w/A/T; Hi-Torque
16	Lifter	69-67	<b>HT-951</b> Std Only	Hyd.
16	Lifter, Bulk	69-67	<b>HT-951B</b> Std Only	Hyd.; Carton of 128
1	Prelube	69-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	69-68	<b>KC-641</b>	w/A/T; Hi-Torque; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	<b>KCT-641</b>	w/A/T; Hi-Torque; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	69-67	<b>RP-3229R</b>	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	69-67	<b>RP-3028</b>	9.1360" O.A.L.
16	Push Rod, Bulk	69-67	<b>BRP-3028</b>	Carton of 100; 9.1360" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	69-67	<b>R-1032</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-67	<b>R-1032B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	69-67	<b>R-849A</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	69	<b>V-1823</b> Std Only	1.6600" Head Dia., .3410" Stem Dia., 5.0820" O.A.L.
8	Exhaust	68	<b>V-3923</b> Std Only	Chrome plated stem; 1.7720" Head Dia., .3409" Stem Dia., 5.0910" O.A.L.
8	Exhaust	67	<b>V-1946</b> Std Only	Chrome plated stem; 1.7756" Head Dia., .3409" Stem Dia., 5.0512" O.A.L.
8	Intake	69	<b>V-1824</b> Std Only	10.5:1 C.R.; 30 deg. seat; Chrome plated stem; 1.9600" Head Dia., .3415" Stem Dia., 5.0890" O.A.L.
8	Intake	69	<b>V-1826</b> Std Only	10.75:1 C.R.; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
8	Intake	68-67	<b>V-1826</b> Std Only	Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 5.0980" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	69-67	<b>VG-5080</b>	Int.; .3440" ID, 2.0000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	69	<b>VS-651</b>	Inner; Exc. w/M/T; Exc. w/HO; 1.7600" Free Height
16	Spring	69	<b>VS-665</b>	Outer; Exc. w/M/T; Exc. w/HO; 1.9400" Free Height
16	Spring	68	<b>VS-1433</b>	Inner; w/M/T; w/HO; 1.9350" Free Height
16	Spring	68	<b>VS-651</b>	Inner; Exc. w/M/T; Exc. w/HO; 1.7600" Free Height
16	Spring	68	<b>VS-665</b>	Outer; 1.9400" Free Height
16	Spring	67	<b>VS-651</b>	Inner; 1.7600" Free Height
16	Spring	67	<b>VS-665</b>	Outer; 1.9400" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	69-67	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	69-67	<b>ST-2092</b>	Positive type; Rubber
16	Valve Stem Seal	69-67	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	69-67	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	69-67	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	69	<b>245-1750-2N</b> Std Only	Use w/V-1823; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	69	<b>245-1750-2</b> Std Only	Use w/V-1823; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	69	<b>245-2125-1</b> Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
8	Int.	69-67	<b>245-2125-2</b> Std Only	Use w/V-1826; 2.1305" OD, 1.8750" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	69-67	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	69-67	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-67	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-67	<b>259-305B</b>	.030"; Carton of 100
16	Spring Insert	69-67	<b>259-305A</b>	.060"; Carton of 100
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Powerforged	69-67	<b>L-2257F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.592" CD, .9802" Pin Dia., Recessed Head .126" deep x 2.300" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	69-67	<b>E-299K</b> Std-20-30-40-60	2-5/64, 1-3/16

**VALVE TRAIN**

**VALVE TRAIN**

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## 116 7.0L 428 OHV V8 (Pontiac), 4.125" Bore 1969-67

(cont.)

BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Standard Set	69-67	E-299X Std-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	69-67	WE-299K Std-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	69-67	WE-299X Std-30-40-60	2-5/64, 1-3/16	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	69-67	4221M Std-10-20-30		
1	Rod Set	69-67	8-1555CPA Std-10-20-30-40			
8	Rod Pair	69-67	1555CPA Std-1-10-20-30-40			
1	Cam Set	69-67	1220M Std Only			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	69-67	224-43364S	High Pressure; 3/4" inlet tube; Incl. screen		
1	Inter. Shaft	69-67	224-61236			
1	Screen Assy.	69-67	224-11236	3/4" inlet tube		
1	Screen Assy.	69-67	224-11232	5/8" inlet tube		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	69-68	260-1025			
1	Kit Gasket Set	67	260-1025	Push rod cover gskt. not incl.		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	69-67	381-8021			
1	Steel Block Plug Kit	69-67	381-4020			
RE-RING KIT				PREMIUM	ECONOMY	
YEARS	DESCRIPTION			KIT NO.	KIT NO.	
69-68			Re-ring	205-640	205-140	
67	Push rod cover gskt. not incl.		Re-ring	205-640	205-140	

## 117 7.0L 429 OHV V8 (Cadillac), 4.125" Bore 1967-64

VIN Codes "5" 1965, "6" 1966, "7" 1967

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Chain	67-66	222-499	Use w/.405" tooth width sprocket; 46 Links	
	1	Timing Chain	65-64	222-489	46 Links	
	1	Crank Sprocket	65-64	223-337	18 Teeth	
	1	Cam Sprocket	67-66	223-404	36 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	67-64	CS-554	Use O.E. bolt No. 179813	
	16	Lifter	67	HT-969 Std Only	Hyd.; w/.440" wide oil groove	
	16	Lifter	66-64	HT-896 Std Only	Hyd.	
	16	Lifter, Bulk	67	HT-969B Std Only	Hyd.; Carton of 128	
16	Lifter, Bulk	66-64	HT-896B Std Only	Hyd.; Carton of 126		
1	Prelube	67-64	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION		
16	Push Rod	67	RP-3175	9.1080" O.A.L.		
16	Push Rod	66-64	RP-3100	9.1550" O.A.L.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	67-66	V-1712 Std Only	1.5000" Head Dia., .3417" Stem Dia., 4.8150" O.A.L.		
8	Exhaust	65	V-1712 Std Only	From Eng. No. 113901; 1.5000" Head Dia., .3417" Stem Dia., 4.8150" O.A.L.		
8	Exhaust	65	V-1366 Std Only	To Eng. No. 113900; 1.5000" Head Dia., .3419" Stem Dia., 4.8248" O.A.L.		
8	Exhaust	64	V-1366 Std Only	1.5000" Head Dia., .3419" Stem Dia., 4.8248" O.A.L.		
8	Intake	67-66	V-1713 Std Only	1.8750" Head Dia., .3420" Stem Dia., 4.8020" O.A.L.		
8	Intake	65	V-1713 Std Only	From Eng. No. 113901; 1.8750" Head Dia., .3420" Stem Dia., 4.8020" O.A.L.		
8	Intake	65	V-1367 Std Only	To Eng. No. 113900; 1.8750" Head Dia., .3420" Stem Dia., 4.7990" O.A.L.		
8	Intake	64	V-1367 Std Only	1.8750" Head Dia., .3420" Stem Dia., 4.7990" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
16	Guide	67-64	VG-503	.3450" ID, 2.2660" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	67-64	VS-485	2.2500" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
16	Valve Stem Seal	67-64	ST-2003	Positive type; Installation requires valve guide machining; Rubber		
16	Valve Stem Seal	67-64	ST-2092	Positive type; Rubber		
16	Valve Stem Seal Bulk	67-64	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	67-64	245-1625-4 Std Only	1.6305" OD, 1.3120" ID, .2175" Depth		

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**7.0L 429 OHV V8 (Cadillac), 4.125" Bore 1967-64 117**

VIN Codes "5" 1965, "6" 1966, "7" 1967 (cont.)

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Int.	67-64	245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	67-64	VK-115	1 groove; Square cut key groove
32	Keeper	67-64	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	67-64	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	67-64	259-203C	.015"; Carton of 100
16	Spring Insert	67-64	259-203B	.030"; Carton of 100
16	Spring Insert	67-64	259-203BRS	.030"; Carton of 500
16	Spring Insert	67-64	259-203A	.060"; Carton of 100
16	Spring Insert	67-64	259-203ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Powerforged	67-66	L-2267F30 30	Use w/E-257X 30 ring set; Powerforged; 2-1/16", 1-3/16" Ring Groove, 1.583" CD, .9996" Pin Dia., Recessed Head .300" deep; DurOshield® skirt coated piston
8	Forged Piston - Individual	67-66	WL-2267F30 30	Use w/WE-257X 30 ring set; Powerforged; 2-1/16", 1-3/16" Ring Groove, 1.583" CD, .9996" Pin Dia., Recessed Head .300" deep; DurOshield® skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	67-66	E-257X Std-30	2-1/16, 1-3/16
1	Standard Set	65-64	E-570X Std Only	2-1/16, 1-1/8
8	Standard Single Cylinder Set	67-66	WE-257X30 30	Use w/WL-2267F 30 piston; 2-1/16, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	67-64	4419M Std-10-20-30	
1	Rod Set	67-64	8-2120CP Std-10-20	
8	Rod Pair	67-64	2120CP Std-10-20-30	
1	Cam Set	67-64	1216M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	67-66	224-5127	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	67-64	381-8004	

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**7.0L 430 OHV V8 (Buick), 4.1875" Bore 1969-67 118**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	KT3-498S	223-398 not sold separately; Incl. (1) 222-498, (1) 223-369, (1) 223-398
1	Timing Chain	69-67	222-498	48 Links
1	Crank Sprocket	69-67	223-369	18 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-67	CS-586	
16	Lifter	69-67	HT-969 Std Only	Use w/hollow push rods; Hyd.; w/.440" wide oil groove
16	Lifter	69-67	HT-896 Std Only	Use w/solid push rods; Hyd.
16	Lifter, Bulk	69-67	HT-969B Std Only	Use w/hollow push rods; Hyd.; Carton of 128
16	Lifter, Bulk	69-67	HT-896B Std Only	Use w/solid push rods; Hyd.; Carton of 126
1	Prelube	69-67	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-67	KC-586	Use w/hollow push rods; Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	69-67	RP-3202	9.3550" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	68-67	R-857	Exh. 2-3-6-7
8	Arm	68-67	R-857	Int. 1-4-5-8
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-67	V-1799 Std Only	Chrome plated stem; 1.6250" Head Dia., .3725" Stem Dia., 5.1620" O.A.L.
8	Intake	69-67	V-1800 Std Only	Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	69-67	VG-5073	Int.; .3745" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-67	VS-712	Incl. damper; 2.2000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-67	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	69-67	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate

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## 118 7.0L 430 OHV V8 (Buick), 4.1875" Bore 1969-67

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QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-67	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	69-67	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	69-67	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-67	VK-97	
16	Spring Insert	69-67	259-100B	.030"; Carton of 100
16	Spring Insert	69-67	259-100A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	69-67	368P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.947" CD, .9997" Pin Dia., Recessed Head .090" deep x 3.500" dia. - 9.9:1 C.R.
8	Cast Piston - Individual	69-67	W368P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.947" CD, .9997" Pin Dia., Recessed Head .090" deep x 3.500" dia. - 9.9:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	69-67	E-287X Std-30-40	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-67	WE-287X Std-30	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-67	4664M Std-10-20-30	
1	Rod Set	69-67	8-3320CP Std-10-20-30-40	
8	Rod Pair	69-67	3320CP Std-10-20-30-40	
1	Cam Set	69-67	1422M Std Only	w/oil hole
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	69-67	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
1	Pump Repair Kit	69-67	224-519	Use w/224-518TP Thrust Plate kit
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	69-67	260-1150	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	69-67	260-4013	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	69-67	381-8003	

## 119 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70

VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	76-73	KT3-501SA	Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	3 Piece Set	72-71	KT3-501SA	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	3 Piece Set	70	KT3-501SA	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Set w/Gaskets	76-70	CTS-1110R	
1	Timing Chain	76-73	222-501	Silent type; 50 Links
1	Timing Chain	72-71	222-501	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	72-71	222-495	Spec. Hi-Perf.; w/4 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	70	222-501	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Silent type; 50 Links
1	Timing Chain	70	222-495	Spec. Hi-Perf.; H/D; w/4 Bbl. Carb.; Silent type; 50 Links
1	Crank Sprocket	76-73	223-393	19 Teeth
1	Crank Sprocket	72-71	223-393	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 19 Teeth
1	Crank Sprocket	70	223-393	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; 19 Teeth
1	Cam Sprocket	76-73	223-392	38 Teeth
1	Cam Sprocket	72-71	223-392	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 38 Teeth
1	Cam Sprocket	70	223-392	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; 38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76	CS-774	
1	Camshaft	75-73	CS-660	
1	Camshaft	70	CS-774	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.
1	Performance Cam	76-70	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	76-70	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees

(continued on next page)



**7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70 119**

VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74 (cont.)

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	(cont.) Performance Cam	76-70	<b>CS-1015R</b>	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	71	<b>CS-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
1	Performance Cam	70	<b>CS-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Pro-4000 Perf. Cam; Mech.; Duration at .050: 242 Int., 242 Exh.; Valve lift .5200" Int., .5200" Exh.; Lobe Separation 114 Degrees
16	Lifter	76-72	<b>HT-817</b> Std Only	Hyd.
16	Lifter	76-72	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter	71	<b>HT-817</b> Std Only	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.
16	Lifter	71	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter	71-70	<b>AT-992</b> Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.
16	Lifter	70	<b>HT-817</b> Std Only	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.
16	Lifter	70	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	76-72	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	76-72	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
16	Lifter, Bulk	71	<b>HT-817B</b> Std Only	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Carton of 128
16	Lifter, Bulk	71	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
16	Lifter, Bulk	71-70	<b>AT-992B</b> Std Only	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Carton of 128
16	Lifter, Bulk	70	<b>HT-817B</b> Std Only	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Carton of 128
16	Lifter, Bulk	70	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	76-70	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	76	<b>KC-774</b>	Hyd.; Incl. (1) CS-774, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-72	<b>KC-1004R</b>	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-72	<b>KC-1088R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	76-72	<b>KC-1015R</b>	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	75-73	<b>KC-660</b>	Hyd.; Incl. (1) CS-660, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-1004R</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-1088R</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-1015R</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-774</b>	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-774, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-1004R</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-1088R</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-1015R</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	<b>KCT-774</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-774, (16) HT-817, (1) KT3-501SA, (1) 55-403B

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 119 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70

(cont.) VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	75-73	<b>KCT-660</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-660, (16) HT-817, (1) KT3-501SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	<b>KCT-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) CTS-1110R, (1) 55-403B
1	Cam/Lifter/Timing Kit	70	<b>KCT-774</b>	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Hyd.; Incl. silent type chain; Incl. (1) CS-774, (16) HT-817, (1) KT3-501SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	70	<b>KCT-165R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Mech.; Pro-4000 Perf. Cam; Duration at .050", 242 Int., 242 Exh.; Valve lift .518" Int., .514" Exh.; Lobe Separation 114 Degrees; Incl. (16) AT-992, (1) CS-165R, (1) CTS-1110R, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	76-73	<b>RP-3215R</b>	Exh.; Chrome-Moly; .375" tube dia.; 9.2520" O.A.L.
8	Push Rod	76-73	<b>RP-3218R</b>	Exh.; Chrome-Moly; .437" tube dia.; 9.2520" O.A.L.
8	Push Rod	76-73	<b>RP-3254</b>	Exh.; 9.2020" O.A.L.
8	Push Rod	76-73	<b>RP-3216R</b>	Int.; Chrome-Moly; .375" tube dia.; 8.2800" O.A.L.
8	Push Rod	76-73	<b>RP-3217R</b>	Int.; Chrome-Moly; .437" tube dia.; 8.2800" O.A.L.
8	Push Rod	76-73	<b>RP-3255</b>	Int.; 8.2270" O.A.L.
8	Push Rod	72	<b>RP-3103</b>	Exh.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	72	<b>RP-3104</b>	Int.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	71	<b>RP-3103</b>	Exh.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	71	<b>RP-3104</b>	Int.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	70	<b>RP-3103</b>	Exh.; Exc. H/D; w/4 Bbl. Carb.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	70	<b>RP-3104</b>	Int.; Exc. H/D; w/4 Bbl. Carb.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod, Bulk	76-73	<b>BRP-3254</b>	Exh.; Carton of 100; 9.2020" O.A.L.
8	Push Rod, Bulk	76-73	<b>BRP-3255</b>	Int.; Carton of 100; 8.2270" O.A.L.
8	Push Rod, Bulk	72	<b>BRP-3103</b>	Exh.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	72	<b>BRP-3104</b>	Int.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
8	Push Rod, Bulk	71	<b>BRP-3103</b>	Exh.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	71	<b>BRP-3104</b>	Int.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
8	Push Rod, Bulk	70	<b>BRP-3103</b>	Exh.; Exc. H/D; w/4 Bbl. Carb.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	70	<b>BRP-3104</b>	Int.; Exc. H/D; w/4 Bbl. Carb.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
8	Push Rod Guide Plate	76-70	<b>MR-1893</b>	Speed-Pro stepped guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	76-70	<b>MR-1894</b>	Speed-Pro stepped guide plate for 7/16" dia. push rods; Requires screw-in studs
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	76-72	<b>R-851</b>	Incl. arm, ball & nut
16	Arm Assy.	71-70	<b>R-851</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. arm, ball & nut
16	Arm Assy.	71-70	<b>R-866R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. arm, ball & nut; Long slot rocker arm
16	Arm Assy., Bulk	76-72	<b>R-851B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	71-70	<b>R-851B</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. arm, ball & nut; Carton of 64
16	Arm	76-72	<b>R-851A</b>	
16	Arm	71-70	<b>R-851A</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.
16	Pivot Ball	76-70	<b>MR-1815</b>	
16	Nut	76-70	<b>MR-1813</b>	7/16" thread
16	Stud	76-70	<b>MR-1910RS</b>	7/16" thread, 1.955" length, .710" depth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	76-75	<b>V-1911</b> Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	74-72	<b>V-1911</b> Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	71	<b>V-1911</b> Std-3-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	71	<b>V-1861</b> Std Only	Hi-Perf.; Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.8740" Head Dia., .3703" Stem Dia., 5.3622" O.A.L.
8	Exhaust	70	<b>V-1911</b> Std-3-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	70	<b>V-1861</b> Std Only	Hi-Perf.; Spec. Hi-Perf.; H/D; w/4 Bbl. Carb.; Chrome plated stem; 1.8740" Head Dia., .3703" Stem Dia., 5.3622" O.A.L.

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**7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70 119**

VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74 (cont.)

<b>QTY</b>	<b>VALVE (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust, Bulk	76-75	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	74-72	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	71	<b>V-1911B</b> Std-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	70	<b>V-1911B</b> Std-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	76-75	<b>V-1912</b> Std-3-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	74-72	<b>V-1912</b> Std-3-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	71	<b>V-1912</b> Std-3-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	71	<b>V-1905</b> Std Only	Hi-Perf.; Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake	70	<b>V-1912</b> Std-3-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	70	<b>V-1905</b> Std Only	Hi-Perf.; Spec. Hi-Perf.; H/D; w/4 Bbl. Carb.; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
8	Intake, Bulk	76-75	<b>V-1912B</b> Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	74-72	<b>V-1912B</b> Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	71	<b>V-1912B</b> Std-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	70	<b>V-1912B</b> Std-15	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	76-70	<b>VG-688</b>	Exh.; w/Cast iron head; .3740" ID, 2.6300" O.A.L.
16	Guide	76-70	<b>VG-689</b>	Exh. & Int.; w/Alum. head; .3735" ID, 2.4200" O.A.L.
8	Guide	76-70	<b>VG-689</b>	Int.; w/Cast iron head; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	76-70	<b>VG-688B</b>	Exh.; w/Cast iron head; Carton of 50; .3740" ID, 2.6300" O.A.L.
16	Guide, Bulk	76-70	<b>VG-689B</b>	Exh. & Int.; w/Alum. head; Carton of 50; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	76-70	<b>VG-689B</b>	Int.; w/Cast iron head; Carton of 50; .3735" ID, 2.4200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	76-75	<b>VS-671</b>	2.0500" Free Height
16	Spring	74-73	<b>VS-728</b>	2.0930" Free Height
16	Spring	72	<b>VS-708</b>	Double spring; 2.1200" Free Height
16	Spring	71	<b>VS-708</b>	Double spring; 2.1200" Free Height
16	Spring	70	<b>VS-657</b>	Exc. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Single spring; Incl. damper; 2.1100" Free Height
16	Spring	70	<b>VS-708</b>	Hi-Perf.; H/D; w/4 Bbl. Carb.; Double spring; 2.1200" Free Height
16	Spring, Bulk	76-75	<b>VS-671B</b>	Carton of 150; 2.0500" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	76-73	<b>ST-2014</b>	Optional for Eng. w/double valve spring; Positive type; Installation requires valve guide machining; PTFE
16	Valve Stem Seal	76-73	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	72-71	<b>ST-2004</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	72-71	<b>ST-2019R</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Positive type; Premium design; PTFE
16	Valve Stem Seal	70	<b>ST-2004</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	70	<b>ST-2019R</b>	Spec. Hi-Perf.; H/D; w/4 Bbl. Carb.; Positive type; Premium design; PTFE
16	Valve Stem Seal	76-73	<b>MV-1769C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal	76-73	<b>MV-1912</b>	Umbrella type; Premium Material; Viton®
16	Valve Stem Seal	72-71	<b>MV-1769C</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Umbrella type; Polyacrylate

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 119 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70

(cont.) VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	72-71	<b>MV-1912</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Umbrella type; Premium Material; Viton®
16	Valve Stem Seal	70	<b>MV-1769C</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Umbrella type; Polyacrylate
16	Valve Stem Seal	70	<b>MV-1912</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Umbrella type; Premium Material; Viton®
16	Valve Stem Seal Bulk	76-73	<b>ST-2014BC</b>	Optional for Eng. w/double valve spring; Positive type; Installation requires valve guide machining; Carton of 100; PTFE
16	Valve Stem Seal Bulk	76-73	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	76-73	<b>MV-1769</b>	Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72-71	<b>ST-2004BC</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	72-71	<b>MV-1769</b>	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	72-71	<b>ST-2019RBC</b>	Spec. Hi-Perf.; w/4 Bbl. Carb.; Positive type; Premium design; Carton of 100; PTFE
16	Valve Stem Seal Bulk	70	<b>ST-2004BC</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	70	<b>MV-1769</b>	Exc. Spec. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Umbrella type; Carton of 100; Polyacrylate
16	Valve Stem Seal Bulk	70	<b>ST-2019RBC</b>	Spec. Hi-Perf.; H/D; w/4 Bbl. Carb.; Positive type; Premium design; Carton of 100; PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-73	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	76-73	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	76-73	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	72-70	<b>245-1812-4N</b> Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	72-70	<b>245-1812-4</b> Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	72-70	<b>245-2250-1</b> Std Only	Exc. Hi-Perf.; w/4 Bbl. Carb.; 2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-70	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	76-70	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-70	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-70	<b>259-303C</b>	.015"; ID .703"; Carton of 100
16	Spring Insert	76-70	<b>259-303B</b>	.030"; ID .703"; Carton of 100
16	Spring Insert	76-70	<b>259-303A</b>	.060"; ID .703"; Carton of 100
16	Spring Insert	76-70	<b>259-303ARS</b>	.060"; ID .703"; Carton of 500
8	Rotocap	76-73	<b>RC-163S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-73	<b>H661CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/E-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	76-70	<b>H581CP</b> Std-20-30-40-60-100	Hypereutectic; Perf. only; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Domed Head w/2 valve reliefs; Std. to .040" O/S use .340" high dome; .060" to .100" O/S use .300" high dome; Hi-Perf. only. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	76-70	<b>H693CP</b> Std-20-30-40-60-100	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9893" Pin Dia., Domed Head .230" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	76-70	<b>H518CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; For +.100" use ring set E424K30; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	72-71	<b>H661CP</b> Std-20-30-40-60-100	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Use in sets only; w/4 Bbl. Carb.; Hypereutectic; Use w/E-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	70	<b>H661CP</b> Std-20-30-40-60-100	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Use in sets only; w/4 Bbl. Carb.; Hypereutectic; Use w/E-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>

(continued on next page)

**7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70 119**

VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74 (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	76-73	<b>WH661CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	76-70	<b>WH581CP</b> Std-20-30-40-60-100	Hypereutectic; Perf. only; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Domed Head w/2 valve reliefs; Std. to .040" O/S use .340" high dome; .060" to .100" O/S use .300" high dome; Hi-Perf. only. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	76-70	<b>WH693CP</b> Std-20-30-40-60-100	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9893" Pin Dia., Domed Head .230" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	76-70	<b>WH518CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; For + .100" use ring set WE424K30; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	72-71	<b>WH661CP</b> Std-20-30-40-60-100	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Use in sets only; w/4 Bbl. Carb.; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	70	<b>WH661CP</b> Std-20-30-40-60-100	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; Use in sets only; w/4 Bbl. Carb.; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	76-73	<b>8KH661CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	76-70	<b>8KH518CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	72-71	<b>8KH661CP30</b> 30-40-60	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	70	<b>8KH661CP30</b> 30-40-60	Exc. Hi-Perf.; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Powerforged	76-73	<b>L-2377F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72-71	<b>L-2377F</b> Std-20-30-40-60	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71	<b>L-2399F</b> Std-30-40-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .095" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70	<b>L-2349F</b> Std-30-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; w/Closed chamber cyl. head; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .265" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	76-73	<b>WL-2377F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-71	<b>WL-2377F</b> Std-20-30-40-60	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71	<b>WL-2399F</b> Std-30-40-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .095" high.
8	Forged Piston - Individual	70	<b>WL-2349F</b> Std-30-60	Spec. Hi-Perf.; w/4 Bbl. Carb.; Powerforged; w/Closed chamber cyl. head; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .265" high. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	76-70	<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	76-70	<b>R-9905</b> Std-20-30-40-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	76-70	<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16

**BLOCK**

**BLOCK**

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# GM Car

## 119 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1976-70

(cont.) VIN Codes "S" 1976, "V" 1972, "W" 1972, "X" 1973-75, "Y" 1973-75, "Z" 1973-74

QTY	RINGS (cont.)		YEARS	PART NO.	DESCRIPTION	
	8	Premium Single Cylinder Set	76-70	<b>WE-233K</b>	Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	76-70	<b>WE-233X</b>	Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION	
1	Main Set	76-70	<b>4400MA</b>	Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Main Set	76-70	<b>7122MA10</b>	10-20-30	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>	
1	Rod Set	76-70	<b>8-3190A</b>	Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
8	Rod Pair	76-70	<b>3190A</b>	Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Cam Set	76-70	<b>1404M</b>	Std Only	Babbitt material; Full round design	
QTY	OIL PUMP		YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	76-70	<b>224-4154</b>			
1	Oil Pump	76-70	<b>224-4153</b>		High Volume, check pan for clearance; Use shaft w/steel guide	
1	Inter. Shaft	76-70	<b>224-6154A</b>		Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide	
1	Inter. Shaft	76-70	<b>224-6154</b>		Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide	
1	Oil Pump Shaft Guide	76-70	<b>224-43343</b>		Nylon	
1	Screen Assy.	76-70	<b>224-43620</b>			
QTY	GASKETS		YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	76-73	<b>260-1009</b>		Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.	
1	Kit Gasket Set	72-70	<b>260-1009</b>		Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.	
1	Kit Gasket Set	72-70	<b>260-1717</b>		Hi-Perf.; w/Oval port heads; Header gskts. incl.; w/4 Bbl. Carb.; Complete set	
1	Kit Gasket Set	72-70	<b>260-1081</b>		Hi-Perf.; w/Rectangular port heads; Header gskts. incl.; w/4 Bbl. Carb.; Complete set	
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	76-70	<b>381-8009</b>			
1	Steel Block Plug Kit	76-70	<b>381-4017</b>			
RE-RING KIT					<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION				<i>KIT NO.</i>	<i>KIT NO.</i>
76-73	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-613</b>	<b>205-113</b>	
		Re-ring w/Mains		<b>205-613M</b>	<b>205-113M</b>	
72-70	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring		<b>205-613</b>	<b>205-113</b>	
		Re-ring w/Mains		<b>205-613M</b>	<b>205-113M</b>	
OVERHAUL KIT					<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION				<i>KIT NO.</i>	<i>KIT NO.</i>
76	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings		<b>MKF-613E</b>	----	
76	Exc. Spec. Hi-Perf.; Exc. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master		<b>MKP-613E</b>	<b>MKP-113E</b>	
		Master w/o Pistons		<b>MK-613E</b>	<b>MK-113E</b>	
76	Exc. Spec. Hi-Perf.; Exc. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-613E</b>	<b>505-113E</b>	
75	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings		<b>MKF-613C</b>	----	
		Master		<b>MKP-613C</b>	<b>MKP-113C</b>	
		Master w/o Pistons		<b>MK-613C</b>	<b>MK-113C</b>	
75	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-613C</b>	<b>505-113C</b>	
74-73	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings		<b>MKF-613C</b>	----	
		Master		<b>MKP-613C</b>	<b>MKP-113C</b>	
		Master w/o Pistons		<b>MK-613C</b>	<b>MK-113C</b>	
74-73	Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-613C</b>	<b>505-113C</b>	
70	Exc. Spec. Hi-Perf.; Exc. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master		<b>MKP-613E</b>	<b>MKP-113E</b>	
		Master w/o Pistons		<b>MK-613E</b>	<b>MK-113E</b>	
70	Exc. Spec. Hi-Perf.; Exc. Hi-Perf.; Exc. H/D; w/4 Bbl. Carb.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-613E</b>	<b>505-113E</b>	

**7.5L 455 OHV V8 (Oldsmobile), 4.125" Bore 1976-68 120**

VIN Codes "R" 1974, "S" 1975-76, "T" 1972-76, "U" 1972-74, "V" 1972-74, "W" 1972-75, "X" 1972.

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	76-75	<b>KT3-498SA3</b>	Incl. (1) 222-498, (1) 223-348, (1) 223-349
1	3 Piece Set	74-68	<b>KT3-494SA5</b>	Incl. (1) 222-494, (1) 223-360, (1) 223-361
1	Timing Set w/Gaskets	76-75	<b>CTS-1005</b>	
1	Timing Chain	76-75	<b>222-498</b>	48 Links
1	Timing Chain	74-68	<b>222-494</b>	48 Links
1	Crank Sprocket	76-75	<b>223-349</b>	18 Teeth
1	Crank Sprocket	74-68	<b>223-361</b>	18 Teeth
1	Cam Sprocket	76-75	<b>223-348</b>	36 Teeth
1	Cam Sprocket	74-68	<b>223-360</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-75	<b>CS-651</b>	
1	Camshaft	74-68	<b>CS-651</b>	Exc. Hi-Perf.; Exc. Police; w/2 Bbl. Carb.
1	Performance Cam	74-68	<b>CS-176R</b>	Hi-Perf.; w/4 Bbl. Carb.; Pro-5000 Perf. Cam; Hyd.; Duration at .050: 232 Int., 232 Exh.; Valve lift .4740" Int., .4740" Exh.; Lobe Separation 113 Degrees
16	Lifter	76-68	<b>HT-951</b> Std Only	Hyd.
16	Lifter, Bulk	76-68	<b>HT-951B</b> Std Only	Hyd.; Carton of 128
1	Prelube	76-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	76-75	<b>KCT-651</b>	Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-498SA3, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-68	<b>KCT-651A</b>	Exc. Hi-Perf.; Exc. Police; w/2 Bbl. Carb.; Hyd.; Incl. (1) CS-651, (16) HT-951, (1) KT3-494SA5, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	76-68	<b>RP-3228R</b>	Chrome-Moly; 9.5500" O.A.L.
16	Push Rod	76-68	<b>RP-3197</b>	9.5460" O.A.L.
16	Push Rod, Bulk	76-68	<b>BRP-3197</b>	Carton of 100; 9.5460" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	76-68	<b>R-856</b>	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	76-68	<b>R-856B</b>	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	76-68	<b>R-856A</b>	
8	Pivot	76-68	<b>MR-1903</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	76-75	<b>V-2028</b> Std Only	Chrome plated stem; 1.6220" Head Dia., .3423" Stem Dia., 4.6750" O.A.L.
8	Exhaust	74	<b>V-2028</b> Std Only	Exc. Opt. W30; Chrome plated stem; 1.6220" Head Dia., .3423" Stem Dia., 4.6750" O.A.L.
8	Exhaust	74	<b>V-1772</b> Std Only	Opt. W30; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	73	<b>V-1772</b> Std Only	w/M/T; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	73	<b>V-2028</b> Std Only	w/TH400 Trans.; Chrome plated stem; 1.6220" Head Dia., .3423" Stem Dia., 4.6750" O.A.L.
8	Exhaust	72	<b>V-1943</b> Std Only	w/A/T; Exc. Toronado; Exc. Opt. W30; Exc. Calif.; 1.6840" Head Dia., .3423" Stem Dia., 4.6750" O.A.L.
8	Exhaust	72	<b>V-1772</b> Std Only	w/A/T; Opt. W30; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	72	<b>V-1772</b> Std Only	w/M/T; Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	71-70	<b>V-1772</b> Std Only	Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Exhaust	69-68	<b>V-1772</b> Std Only	Chrome plated stem; 1.6240" Head Dia., .3422" Stem Dia., 4.6950" O.A.L.
8	Intake	76-75	<b>V-2304</b> Std Only	Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	76-75	<b>V-1775</b> Std Only	1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	74	<b>V-2304</b> Std Only	Exc. Opt. W30; Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	74	<b>V-1775</b> Std Only	Exc. Opt. W30; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	74	<b>V-1776</b> Std Only	Opt. W30; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	73	<b>V-1776</b> Std Only	w/M/T; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	73	<b>V-2304</b> Std Only	w/TH400 Trans.; Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	73	<b>V-1775</b> Std Only	w/TH400 Trans.; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	72	<b>V-2304</b> Std Only	w/A/T; Exc. Opt. W30; Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	72	<b>V-1775</b> Std Only	w/A/T; Exc. Opt. W30; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 120 7.5L 455 OHV V8 (Oldsmobile), 4.125" Bore 1976-68

(cont.) VIN Codes "R" 1974, "S" 1975-76, "T" 1972-76, "U" 1972-74, "V" 1972-74, "W" 1972-75, "X" 1972.

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake	72	V-1776 Std Only	w/A/T; Opt. W30; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	72	V-1776 Std Only	w/M/T; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	71-70	V-2304 Std Only	Exc. Toronado; Exc. Hi-Perf.; w/2 Bbl. Carb.; Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	71-70	V-1775 Std Only	Exc. Toronado; Exc. Hi-Perf.; w/2 Bbl. Carb.; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	71-70	V-1776 Std Only	Toronado; w/4 Bbl. Carb.; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
8	Intake	69-68	V-2304 Std Only	Exc. Toronado; Exc. Police; w/2 Bbl. Carb.; Stock replacement; 1.9950" Head Dia., .3430" Stem Dia., 4.6670" O.A.L.
8	Intake	69-68	V-1775 Std Only	Exc. Toronado; Exc. Police; w/2 Bbl. Carb.; 1.9920" Head Dia., .3430" Stem Dia., 4.7090" O.A.L.
8	Intake	69-68	V-1776 Std Only	Toronado; Police; w/4 Bbl. Carb.; 2.0630" Head Dia., .3427" Stem Dia., 4.7180" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	76-68	VG-5038	.3430" ID, 2.1200" O.A.L.
16	Guide, Bulk	76-68	VG-5038B	Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	76-75	VS-721	1.9600" Free Height
16	Spring	74	VS-721	w/A/T; 1.9600" Free Height
16	Spring	73	VS-1618R	w/M/T; Exc. Toronado; Incl. damper; 1.9940" Free Height
16	Spring	73	VS-721	Toronado; w/A/T; 1.9600" Free Height
16	Spring	72	VS-1618R	Exc. Toronado; Incl. damper; 1.9940" Free Height
16	Spring	72	VS-721	Toronado; 1.9600" Free Height
16	Spring	71-68	VS-1618R	Incl. damper; 1.9940" Free Height
16	Spring, Bulk	76-75	VS-721B	Carton of 250; 1.9600" Free Height
16	Spring, Bulk	74	VS-721B	w/A/T; Carton of 250; 1.9600" Free Height
16	Spring, Bulk	73	VS-721B	Toronado; w/A/T; Carton of 250; 1.9600" Free Height
16	Spring, Bulk	72	VS-721B	Toronado; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-68	ST-2001	Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	76-68	MV-1903	Exh. & Int.; Use w/repair guide; Positive type; Rubber
8	Valve Stem Seal	76-68	MV-1819C	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	76-68	ST-2001BC	Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	76-68	MV-1819	Int.; Umbrella type; Carton of 50; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	76-75	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
8	Exh.	76-73	245-1750-2N Std Only	Use w/V-1772; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	76-73	245-1750-2 Std Only	Use w/V-1772; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	74-68	245-2125-2 Std Only	Use w/V-1775 & V-2304; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Int.	74-68	245-2250-1 Std Only	Use w/V-1776; 2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-68	VK-115	1 groove; Square cut key groove
32	Keeper	76-68	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-68	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-68	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	76-68	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	76-68	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	76-68	259-303ARS	.060"; ID .703"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-68	369P Std-20-30-40-60	High comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .120" deep x 2.940" dia. - 9.75:1 C.R.
8	Cast Piston	71-70	344P20 20-30-40-60	Low comp.; Eng. Codes "TX" & "TY"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.
8	Cast Piston	71-68	344P20 20-30-40-60	Low comp.; Eng. Codes "UC", "UD" & "UJ"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.
8	Cast Piston	68	344P20 20-30-40-60	Low comp.; Eng. Codes "UA" & "UB"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.

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**7.5L 455 OHV V8 (Oldsmobile), 4.125" Bore 1976-68 120**

VIN Codes "R" 1974, "S" 1975-76, "T" 1972-76, "U" 1972-74, "V" 1972-74, "W" 1972-75, "X" 1972. (cont.)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	76-68	<b>W369P</b> Std-20-30-40-60	High comp.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .120" deep x 2.940" dia. - 9.75:1 C.R.
8	Cast Piston - Individual	71-70	<b>W344P20</b> 20-30-40-60	Low comp.; Eng. Codes "TX" & "TY"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	71-68	<b>W344P20</b> 20-30-40-60	Low comp.; Eng. Codes "UC", "UD" & "UJ"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	68	<b>W344P20</b> 20-30-40-60	Low comp.; Eng. Codes "UA" & "UB"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.725" CD, .9806" Pin Dia., Recessed Head .329" deep x 3.500" dia. - 8.4:1 C.R.
8	Powerforged	76-72	<b>L-2390F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	71	<b>L-2390F30</b> 30	For use w/91 & lower octane pump fuels; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-68	<b>L-2390F30</b> 30	For use w/91 & lower octane pump fuels; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-68	<b>L-2323F</b> Std-30-40-60	High comp.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .142" deep x 2.950" dia. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	76-72	<b>WL-2390F30</b> 30	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	71	<b>WL-2390F30</b> 30	For use w/91 & lower octane pump fuels; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-68	<b>WL-2390F30</b> 30	For use w/91 & lower octane pump fuels; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .306" deep x 3.500" dia. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-68	<b>WL-2323F</b> Std-30-40-60	High comp.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.735" CD, .9805" Pin Dia., Recessed Head .142" deep x 2.950" dia. <b>DurOshield® skirt coated piston.</b>
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	76-68	<b>E-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	76-68	<b>E-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	76-68	<b>WE-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	76-68	<b>WE-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	76-68	<b>4294M</b> Std-1-10-20-30	
1	Rod Set	76-68	<b>8-3345P</b> Std-1-10-20-30-40	
8	Rod Pair	76-68	<b>3345P</b> Std-1-10-20-30-40	
1	Cam Set	76-68	<b>1234M</b> Std Only	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	76-68	<b>224-41203</b>	
1	Oil Pump	76-68	<b>224-41203V</b>	High Volume, check pan for clearance; Use w/224-11203V screen
1	Inter. Shaft	76-68	<b>224-61203</b>	
1	Screen Assy.	76-68	<b>224-11203V</b>	Bolt-on 3/4" tube; Use w/224-41203V pump
1	Screen Assy.	76-68	<b>224-12203</b>	Press-in tube
1	Screen Assy.	76-68	<b>224-11203</b>	5/8" inlet tube
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	76-68	<b>260-1008</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	76-73	<b>260-4024</b>	
1	Valley Pan Gasket Set	72-68	<b>260-4021</b>	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	76-68	<b>381-8020</b>	
1	Steel Block Plug Kit	76-68	<b>381-4020</b>	
	<b>RE-RING KIT</b>			
<b>YEARS</b>	<b>DESCRIPTION</b>			
76-68	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	<b>PREMIUM KIT NO.</b> 205-674	<b>ECONOMY KIT NO.</b> 205-174

**BLOCK**

**BLOCK**

# GM Car

## 121 7.5L 455 OHV V8 (Pontiac), 4.151" Bore 1976-70

VIN Codes "T" 1972-76, "U" 1972, "V" 1972, "W" 1972-76, "X" 1972-74, "Y" 1972-74

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	76-70	KT3-350S	223-305 not sold separately; Incl. (1) 222-350, (1) 223-305, (1) 223-371
1	Timing Chain	76-70	222-350	60 Links
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-75	CS-641	
1	Camshaft	74-73	CS-641	Exc. Super Duty
1	Camshaft	72	CS-641	VIN Codes "U" & "V"
1	Camshaft	71	CS-641	Eng. Codes "WG" & "YG"
1	Camshaft	70	CS-641	w/A/T
16	Lifter	76-70	HT-951 Std Only	Hyd.
16	Lifter, Bulk	76-70	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	76-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	76-75	KC-641	Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	74-73	KC-641	Exc. Super Duty; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	72	KC-641	VIN Codes "U" & "V"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	71	KC-641	Eng. Codes "WG" & "YG"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter Kit	70	KC-641	w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-641	Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-73	KCT-641	Exc. Super Duty; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72	KCT-641	VIN Codes "U" & "V"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	71	KCT-641	Eng. Codes "WG" & "YG"; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
1	Cam/Lifter/Timing Kit	70	KCT-641	w/A/T; Hyd.; Incl. (1) CS-641, (16) HT-951, (1) KT3-350S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	76-70	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	76-70	RP-3028	9.1360" O.A.L.
16	Push Rod, Bulk	76-70	BRP-3028	Carton of 100; 9.1360" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	76-70	R-1032	Incl. arm, ball & nut
16	Arm Assy., Bulk	76-70	R-1032B	Incl. arm, ball & nut; Carton of 64
16	Arm	76-70	R-849A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	74-73	V-1967 Std Only	Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Chrome plated stem; 1.6600" Head Dia., .3410" Stem Dia., 4.8700" O.A.L.
8	Exhaust	72	V-1902 Std Only	w/HO; w/4 Bbl. Carb.; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	71	V-1902 Std Only	w/HO; w/4 Bbl. Carb.; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Exhaust	71	V-1967 Std Only	Eng. Codes "WG" & "YG"; Chrome plated stem; 1.6600" Head Dia., .3410" Stem Dia., 4.8700" O.A.L.
8	Exhaust	70	V-1832 Std Only	Eng. Code "YH"; Chrome plated stem; 1.6600" Head Dia., .3405" Stem Dia., 4.9840" O.A.L.
8	Exhaust	70	V-1902 Std Only	Eng. Codes "WA", "WG", "XF" & "YA"; Chrome plated stem; 1.7720" Head Dia., .3411" Stem Dia., 4.9764" O.A.L.
8	Intake	74-72	V-1920 Std Only	VIN Codes "T", "W", "X" & "Y"; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	72-71	V-1903 Std Only	w/HO; w/4 Bbl. Carb.; Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
8	Intake	72-71	V-1920 Std Only	w/4 Bbl. Carb.; Exc. HO; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	71	V-1920 Std Only	Eng. Codes "WC", "WL", "WJ", "YA", "YC" & "YE"; Chrome plated stem; 2.1100" Head Dia., .3415" Stem Dia., 4.8800" O.A.L.
8	Intake	70	V-1903 Std Only	Eng. Codes "WA", "WG", "XF" & "YA"; Chrome plated stem; 2.1100" Head Dia., .3420" Stem Dia., 4.9820" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	76-75	VS-651	Inner; 1.7600" Free Height
16	Spring	76-75	VS-665	Outer; 1.9400" Free Height
16	Spring	74-73	VS-1580	Super Duty; w/4 Bbl. Carb.; Inner and outer assy.; 2.0870" Free Height
16	Spring	74-73	VS-651	Inner; Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; 1.7600" Free Height

VALVE TRAIN

VALVE TRAIN

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**7.5L 455 OHV V8 (Pontiac), 4.151" Bore 1976-70 121**

VIN Codes "T" 1972-76, "U" 1972, "V" 1972, "W" 1972-76, "X" 1972-74, "Y" 1972-74 (cont.)

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring	74-73	<b>VS-665</b>	Outer; Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; 1.9400" Free Height
16	Spring	72-70	<b>VS-651</b>	Inner; 1.7600" Free Height
16	Spring	72-70	<b>VS-665</b>	Outer; 1.9400" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	76-70	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	76-70	<b>ST-2092</b>	Positive type; Rubber
16	Valve Stem Seal	76-70	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	76-70	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	76-70	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	76-75	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	76-75	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	76-70	<b>245-2125-2</b> Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
8	Exh.	74-70	<b>245-1750-2N</b> Std Only	Use w/V-1832 & V-1967; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-70	<b>245-1750-2</b> Std Only	Use w/V-1832 & V-1967; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-70	<b>245-1812-1N</b> Std Only	Use w/V-1902; Premium Material; 1.8175" OD, 1.5625" ID, .2480" Depth
8	Exh.	74-70	<b>245-1812-1</b> Std Only	Use w/V-1902; 1.8175" OD, 1.5625" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	76-70	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	76-70	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-70	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-70	<b>259-305B</b>	.030"; Carton of 100
16	Spring Insert	76-70	<b>259-305A</b>	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	76-75	<b>417NP30</b> 30-40-60	Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Cast Piston	74-73	<b>417NP30</b> 30-40-60	Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Cast Piston	72-70	<b>417NP30</b> 30-40-60	Exc. HO; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Cast Piston - Individual	76-75	<b>W417NP30</b> 30-40-60	Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Cast Piston - Individual	74-73	<b>W417NP30</b> 30-40-60	Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Cast Piston - Individual	72-70	<b>W417NP30</b> 30-40-60	Exc. HO; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Cast; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.481" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs - 8.2:1 C.R.
8	Powerforged	76-75	<b>L-2359F</b> Std-30-40-60	Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
8	Powerforged	74-73	<b>L-2359F</b> Std-30-40-60	Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
8	Powerforged	72-70	<b>L-2359F</b> Std-30-40-60	Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
8	Forged Piston - Individual	76-75	<b>WL-2359F</b> Std-30-40-60	Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
8	Forged Piston - Individual	74-73	<b>WL-2359F</b> Std-30-40-60	Exc. Super Duty; Exc. 2 Bbl. Carb. & 4 Bbl. Carb.; Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
8	Forged Piston - Individual	72-70	<b>WL-2359F</b> Std-30-40-60	Powerforged; 1-5/64", 1-1/16", 1-3/16" Ring Groove, 1.497" CD, .9804" Pin Dia., Flat Head w/4 valve reliefs.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	76-70	<b>E-300K</b> Std-30-40-60	1-5/64, 1-1/16, 1-3/16
1	Standard Set	76-70	<b>E-300X</b> Std-30-60	1-5/64, 1-1/16, 1-3/16
8	Premium Single Cylinder Set	76-70	<b>WE-300K</b> Std-30-40-60	1-5/64, 1-1/16, 1-3/16
8	Standard Single Cylinder Set	76-70	<b>WE-300X</b> Std-30	1-5/64, 1-1/16, 1-3/16

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# GM Car

## 121 7.5L 455 OHV V8 (Pontiac), 4.151" Bore 1976-70

(cont.) VIN Codes "T" 1972-76, "U" 1972, "V" 1972, "W" 1972-76, "X" 1972-74, "Y" 1972-74

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Main Set	76-70	4221M	Std-10-20-30		
	1	Rod Set	76-70	8-1555CPA	Std-10-20-30-40		
	8	Rod Pair	76-70	1555CPA	Std-1-10-20-30-40		
1	Cam Set	76-70	1220M	Std Only			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Oil Pump	76-75	224-43364S	VIN Codes "T" & "W"; High Pressure; 3/4" inlet tube; Incl. screen			
1	Oil Pump	76-70	224-43629	30% more pressure than 22443364S			
1	Oil Pump	74-72	224-43364S	VIN Codes "T", "W", "X" & "Y"; High Pressure; 3/4" inlet tube; Incl. screen			
1	Oil Pump	71	224-43364S	Eng. Codes "WC", "WL", "WJ", "YA", "YC" & "YE"; High Pressure; 3/4" inlet tube; Incl. screen			
1	Oil Pump	70	224-43364S	Eng. Codes "WA", "WC", "WG", "XF", "YA", "YC" & "YH"; High Pressure; 3/4" inlet tube; Incl. screen			
1	Screen Assy.	76-75	224-11236	VIN Codes "T" & "W"; 3/4" inlet tube			
1	Screen Assy.	74-72	224-11236	VIN Codes "T", "W", "X" & "Y"; 3/4" inlet tube			
1	Screen Assy.	72	224-11232	VIN Codes "U" & "V"; 5/8" inlet tube			
1	Screen Assy.	71	224-11232	Eng. Code "WG" & "YG"; 5/8" inlet tube			
1	Screen Assy.	71	224-11236	Eng. Codes "WC", "WL", "WJ", "YA", "YC" & "YE"; 3/4" inlet tube			
1	Screen Assy.	70	224-11236	Eng. Codes "WA", "WC", "WG", "XF", "YA", "YC" & "YH"; 3/4" inlet tube			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	76-75	260-1025				
1	Kit Gasket Set	74-73	260-1025	w/2 Bbl. Carb.			
1	Kit Gasket Set	74-73	260-1025	w/4 Bbl. Carb.; Exc. Super Duty			
1	Kit Gasket Set	72-71	260-1025	w/2 Bbl. Carb.			
1	Kit Gasket Set	72-71	260-1025	w/4 Bbl. Carb.; Exc. HO			
1	Kit Gasket Set	70	260-1025				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	76-70	381-8021				
1	Steel Block Plug Kit	76-70	381-4020				
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
			76-75		Re-ring	205-679	205-179
			74-73	w/2 Bbl. Carb.	Re-ring	205-679	205-179
			74-73	w/4 Bbl. Carb.; Exc. Super Duty	Re-ring	205-679	205-179
			72-71	w/2 Bbl. Carb.	Re-ring	205-679	205-179
			72-71	w/4 Bbl. Carb.; Exc. HO	Re-ring	205-679	205-179
			70		Re-ring	205-679	205-179
	OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
			76-75	VIN Codes "T" & "W"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Pistons	MK-679C	MK-179C
			74-73	VIN Codes "T", "W", "X" & "Y"; w/2 Bbl. Carb.; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Pistons	MK-679C	MK-179C
			74-73	VIN Codes "T", "W", "X" & "Y"; w/4 Bbl. Carb.; Exc. Super Duty; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Pistons	MK-679C	MK-179C
			70	w/A/T; Eng. Codes "WA", "WC", "WG", "XF", "YA", "YC" & "YH"; Incl. High Pressure 3/4" inlet oil pump; Oil pump screen incl.	Master w/o Pistons	MK-679C	MK-179C

## 122 7.5L 455 OHV V8 (Buick), 4.3125" Bore 1976-70

VIN Codes "P" 1974, "R" 1974, "T" 1972-76, "U" 1971-74, "V" 1972-74, "W" 1972-74

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	76-70	KT3-498S	223-398 not sold separately; Incl. (1) 222-498, (1) 223-369, (1) 223-398
1	Timing Chain	76-70	222-498	48 Links
1	Crank Sprocket	76-70	223-369	18 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-75	CS-586	
1	Camshaft	74-72	CS-586	Exc. VIN Code "W"; Exc. Riviera
1	Camshaft	71	CS-586	Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455
1	Camshaft	70	CS-586	Eng. Codes "SF" & "SR"

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**7.5L 455 OHV V8 (Buick), 4.3125" Bore 1976-70 122**

VIN Codes "P" 1974, "R" 1974, "T" 1972-76, "U" 1971-74, "V" 1972-74, "W" 1972-74 (cont.)

<b>7.5L 455 OHV V8 (Buick), 4.3125" Bore 1976-70 122</b>				
VIN Codes "P" 1974, "R" 1974, "T" 1972-76, "U" 1971-74, "V" 1972-74, "W" 1972-74 (cont.)				
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	(cont.) Lifter	76-70	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove
16	Lifter, Bulk	76-70	<b>HT-969B</b> Std Only	Hyd.; Carton of 128
1	Prelube	76-70	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	76-75	<b>KC-586</b>	Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	74-72	<b>KC-586</b>	Exc. VIN Code "W"; Exc. Riviera; Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	71	<b>KC-586</b>	Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455; Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B
1	Cam/Lifter Kit	70	<b>KC-586</b>	Eng. Codes "SF" & "SR"; Hyd.; Incl. (1) CS-586, (16) HT-969, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	76-70	<b>RP-3179</b>	9.3780" O.A.L.
16	Push Rod, Bulk	76-70	<b>BRP-3179</b>	Carton of 100; 9.3780" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	76-73	<b>R-870</b>	L.H.; Incl. arm & retainer; Stamped steel
8	Arm Assy.	72-70	<b>R-870</b>	L.H.; Incl. arm & retainer; Stamped steel
8	Arm	76-73	<b>R-870W</b>	L.H.; Stamped steel
8	Arm	72-70	<b>R-870W</b>	L.H.; Stamped steel
16	Retainer	76-70	<b>MR-1829</b>	L.H.; Stamped steel
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	74-72	<b>V-1799</b> Std Only	Exc. VIN Code "W"; Exc. Riviera; Chrome plated stem; 1.6250" Head Dia., .3725" Stem Dia., 5.1620" O.A.L.
8	Exhaust	71	<b>V-1799</b> Std Only	Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455; Chrome plated stem; 1.6250" Head Dia., .3725" Stem Dia., 5.1620" O.A.L.
8	Exhaust	70	<b>V-1799</b> Std Only	Eng. Codes "SF" & "SR"; Chrome plated stem; 1.6250" Head Dia., .3725" Stem Dia., 5.1620" O.A.L.
8	Intake	76-75	<b>V-1800</b> Std Only	Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.
8	Intake	74-72	<b>V-1800</b> Std Only	Exc. VIN Code "W"; Exc. Riviera; Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.
8	Intake	71	<b>V-1800</b> Std Only	Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455; Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.
8	Intake	70	<b>V-1800</b> Std Only	Eng. Codes "SF" & "SR"; Chrome plated stem; 2.0000" Head Dia., .3725" Stem Dia., 5.1370" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	76-70	<b>VG-5087</b>	Exh.; Bronze; .3740" ID, 2.5000" O.A.L.
8	Guide	76-70	<b>VG-5062</b>	Int.; .3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	76-75	<b>VS-712</b>	Exh.; Incl. damper; 2.2000" Free Height
16	Spring	74-72	<b>VS-712</b>	Exh. & Int.; Exc. VIN Code "W"; Exc. Riviera; Incl. damper; 2.2000" Free Height
16	Spring	74-72	<b>VS-1582</b>	Exh. & Int.; VIN Code "W"; 2.1000" Free Height
16	Spring	71	<b>VS-1582</b>	Exh. & Int.; Eng. Code "TS"; 2.1000" Free Height
16	Spring	71	<b>VS-712</b>	Exh. & Int.; Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455; Incl. damper; 2.2000" Free Height
16	Spring	70	<b>VS-1582</b>	Exh. & Int.; Eng. Code "SS"; 2.1000" Free Height
16	Spring	70	<b>VS-712</b>	Exh. & Int.; Eng. Codes "SF" & "SR"; Incl. damper; 2.2000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	76-70	<b>ST-2002</b>	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	76-70	<b>ST-2002BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Int.	76-70	<b>245-2125-2</b> Std Only	Use w/V-1800; 2.1305" OD, 1.8750" ID, .2480" Depth
8	Exh.	74-70	<b>245-1750-2N</b> Std Only	Use w/V-1799; Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-70	<b>245-1750-2</b> Std Only	Use w/V-1799; 1.7550" OD, 1.5000" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	76-70	<b>VK-97</b>	
16	Spring Insert	76-70	<b>259-100B</b>	.030"; Carton of 100
16	Spring Insert	76-70	<b>259-100A</b>	.060"; Carton of 100
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	76-70	<b>392AP</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.955" CD, .9999" Pin Dia., Recessed Head .230" deep x 3.610" dia.

**VALVE TRAIN**

**VALVE TRAIN**

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# GM Car

## 122 7.5L 455 OHV V8 (Buick), 4.3125" Bore 1976-70

(cont.) VIN Codes "P" 1974, "R" 1974, "T" 1972-76, "U" 1971-74, "V" 1972-74, "W" 1972-74

<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b> (cont.)	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>BLOCK</b>
	8	Cast Piston - Individual	76-70	<b>W392AP</b> Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.955" CD, .9999" Pin Dia., Recessed Head .230" deep x 3.610" dia.	
	8	Powerforged	70	<b>L-2353F30</b> 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.975" CD, .9996" Pin Dia., Recessed Head .156" deep x 3.610" dia. <b>DurOshield® skirt coated piston.</b>	
	8	Forged Piston - Individual	70	<b>WL-2353F30</b> 30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.975" CD, .9996" Pin Dia., Recessed Head .156" deep x 3.610" dia. <b>DurOshield® skirt coated piston.</b>	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	76-70	<b>E-289K</b> Std-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	76-70	<b>E-289X</b> Std-30	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	76-70	<b>WE-289K30</b> 30-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	76-70	<b>WE-289X</b> Std-30	2-5/64, 1-3/16	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	76-70	<b>4664M</b> Std-10-20-30			
1	Rod Set	76-70	<b>8-3320CP</b> Std-10-20-30-40			
8	Rod Pair	76-70	<b>3320CP</b> Std-10-20-30-40			
1	Cam Set	76-70	<b>1422M</b> Std Only	w/oil hole		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Pump Repair Kit	76-70	<b>224-518TP</b>	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions		
1	Pump Repair Kit	76-70	<b>224-519</b>	Use w/224-518TP Thrust Plate kit		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	76-70	<b>260-1150</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.		
1	Valley Pan Gasket Set	76-72	<b>260-4023</b>			
1	Valley Pan Gasket Set	71-70	<b>260-4013</b>			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	76-70	<b>381-8003</b>			
<b>KITS</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	76-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring	<b>205-738</b>	<b>205-238</b>	
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	<b>YEARS</b>	<b>DESCRIPTION</b>				
76-75	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-738C</b>	<b>MK-238C</b>		
74-72	Exc. VIN Code "W"; Exc. Riviera; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-738C</b>	<b>MK-238C</b>		
71	Eng. Codes "TA" & "TR"; VIN Code "U"; Exc. Riviera & GS 455; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-738C</b>	<b>MK-238C</b>		
70	Eng. Codes "SF" & "SR"; Int. manifold gskt. not incl.; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-738C</b>	<b>MK-238C</b>		

## 123 7.7L 472 OHV V8 (Cadillac), 4.3" Bore 1974-68

VIN Codes "R" 1972-74, "O" 1970, "I" 1971, "8" 1968, "9" 1969

<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>VALVE TRAIN</b>
	1	3 Piece Set	74-68	<b>KT3-498SA1</b>	Incl. (1) 222-498, (1) 223-404, (1) 223-405	
	1	Timing Chain	74-68	<b>222-498</b>	48 Links	
	1	Crank Sprocket	74-68	<b>223-405</b>	18 Teeth	
	1	Cam Sprocket	74-68	<b>223-404</b>	36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	74-68	<b>CS-656</b>		
	16	Lifter	74-68	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove	
	16	Lifter, Bulk	74-68	<b>HT-969B</b> Std Only	Hyd.; Carton of 128	
	1	Prelube	74-68	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam/Lifter Kit	74-68	<b>KC-656</b>	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) 55-403B		
1	Cam/Lifter/Timing Kit	74-68	<b>KCT-656</b>	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) KT3-498SA1, (1) 55-403B		
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Push Rod	74-68	<b>RP-3178</b>	10.1980" O.A.L.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Pivot	74-68	<b>MR-1914</b>			

(continued on next page)

# GM Car

## 7.7L 472 OHV V8 (Cadillac), 4.3" Bore 1974-68 **123**

VIN Codes "R" 1972-74, "O" 1970, "1" 1971, "8" 1968, "9" 1969 (cont.)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	73-68	<b>V-1801</b> Std Only	Chrome plated stem; 1.6250" Head Dia., .3427" Stem Dia., 5.2500" O.A.L.
8	Intake	73-68	<b>V-1802</b> Std Only	2.0000" Head Dia., .3420" Stem Dia., 5.2330" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide	74-68	<b>VG-5034</b>	Cut to fit; .3430" ID, 2.5000" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	74-68	<b>VS-485</b>	2.2500" Free Height
16	Retainer	74-68	<b>VSR-7013</b>	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	74-68	<b>ST-2003</b>	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	74-68	<b>ST-2092</b>	Positive type; Rubber
16	Valve Stem Seal Bulk	74-68	<b>ST-2003BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	74-68	<b>245-1750-2N</b> Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	74-68	<b>245-1750-2</b> Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	74-68	<b>245-2125-2</b> Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	74-68	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	74-68	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	74-68	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	74-68	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	74-68	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	74-68	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	74-68	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	74-68	<b>259-203ARS</b>	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	74-68	<b>351NP</b> Std-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 2.010" CD, .9997" Pin Dia., Recessed Head .380" deep - 8.5:1 C.R.
8	Cast Piston - Individual	74-68	<b>W351NP</b> Std-30-40	Use w/WE-290X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 2.010" CD, .9997" Pin Dia., Recessed Head .380" deep - 8.5:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	74-68	<b>E-290K</b> Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	74-68	<b>E-290X</b> Std-30	2-5/64, 1-3/16
8	Premium Single Cylinder Set	74-68	<b>WE-290K30</b> 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	74-68	<b>WE-290X</b> Std-30	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74-68	<b>4906MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set	74-68	<b>7430MA40</b> 40	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Rod Set	74-68	<b>8-3345P</b> Std-1-10-20-30-40	
8	Rod Pair	74-68	<b>3345P</b> Std-1-10-20-30-40	
1	Cam Set	74-68	<b>1216M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	74-68	<b>224-43473</b>	
1	Pump Repair Kit	74-68	<b>224-5128</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	74-68	<b>260-1769</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	74-68	<b>381-8004</b>	

## 8.2L 500 OHV V8 (Cadillac), 4.3" Bore 1976-70 **124**

VIN Codes "S" 1972-76, "O" 1970, "1" 1971

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	76-70	<b>KT3-498SA1</b>	Incl. (1) 222-498, (1) 223-404, (1) 223-405
1	Timing Chain	76-70	<b>222-498</b>	48 Links
1	Crank Sprocket	76-70	<b>223-405</b>	18 Teeth
1	Cam Sprocket	76-70	<b>223-404</b>	36 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	76-70	<b>CS-656</b>	
16	Lifter	76-70	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove
16	Lifter, Bulk	76-70	<b>HT-969B</b> Std Only	Hyd.; Carton of 128
1	Prelube	76-70	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	76-70	<b>KC-656</b>	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) 55-403B

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# GM Car

## 124 8.2L 500 OHV V8 (Cadillac), 4.3" Bore 1976-70

(cont.) VIN Codes "S" 1972-76, "O" 1970, "1" 1971

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	76-70	KCT-656	Hyd.; Incl. (1) CS-656, (16) HT-969, (1) KT3-498SA1, (1) 55-403B
QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	76-70	RP-3178	10.1980" O.A.L.
QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Pivot	76-70	MR-1914	
QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	73-70	V-1801 Std Only	Chrome plated stem; 1.6250" Head Dia., .3427" Stem Dia., 5.2500" O.A.L.
8	Intake	73-70	V-1802 Std Only	2.0000" Head Dia., .3420" Stem Dia., 5.2330" O.A.L.
QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	76-70	VS-485	2.2500" Free Height
16	Retainer	76-70	VSR-7013	
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	76-70	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	76-70	ST-2092	Positive type; Rubber
16	Valve Stem Seal Bulk	76-70	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	76-70	245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
8	Exh.	76-70	245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
8	Int.	76-70	245-2125-2 Std Only	2.1305" OD, 1.8750" ID, .2480" Depth
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	76-70	VK-115	1 groove; Square cut key groove
32	Keeper	76-70	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-70	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-70	259-203C	.015"; Carton of 100
16	Spring Insert	76-70	259-203B	.030"; Carton of 100
16	Spring Insert	76-70	259-203BRS	.030"; Carton of 500
16	Spring Insert	76-70	259-203A	.060"; Carton of 100
16	Spring Insert	76-70	259-203ARS	.060"; Carton of 500
QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston	76-74	609P Std-20-30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.882" CD, .9999" Pin Dia., Recessed Head .110" deep x 2.500" dia.
8	Cast Piston - Individual	76-74	W609P Std-20-30-40	Use w/WE-290X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.882" CD, .9999" Pin Dia., Recessed Head .110" deep. x 2.500" dia.
QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	76-70	E-290K Std-20-30-40	2-5/64, 1-3/16
1	Standard Set	76-70	E-290X Std-30	2-5/64, 1-3/16
8	Premium Single Cylinder Set	76-70	WE-290K30 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	76-70	WE-290X Std-30	2-5/64, 1-3/16
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	76-70	4906MA Std-10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set	76-70	7430MA40 40	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Rod Set	76-70	8-3345P Std-1-10-20-30-40	
8	Rod Pair	76-70	3345P Std-1-10-20-30-40	
1	Cam Set	76-70	1216M Std Only	
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	76-70	224-43473	
1	Pump Repair Kit	76-70	224-5128	
QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	76-70	260-1769	Int. manifold gskt. not incl.; Premium valve stem seals incl.
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	76-70	381-8004	

**GMC Minivans - See GMC Truck**

**GMC SUV's - See GMC Truck**



# GMC Truck (Includes Minivans)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.6L 97 (1590cc) SOHC L4 75mm Bore (8 Valve) (Suzuki Eng.) L/D Truck.....	1990-89	1	4.3L 262 OHV V6 4" Bore (Chevrolet) L/D Truck .....	1990-85	28
1.8L 110.8 (1817cc) SOHC L4 84mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	1982-72	2	4.3L 265 OHV V8 3.75" Bore (Chevrolet) L/D Truck .....	1957-55	29
1.9L 118.9 (1949cc) SOHC L4 87mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	1985-82	3	4.4L 267 OHV V8 3.5" Bore (Chevrolet) L/D Truck ..	1982-79	30
2.0L 121 (1989cc) OHV L4 89mm Bore (Chevrolet) L/D Truck .....	1984-83	4	4.4L 270 OHV L6 3.7813" Bore (GMC) L/D Truck ...	1962-56	31
2.2L 136.5 (2238cc) OHV Diesel L4 88mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	1985-81	5	4.6L 283 OHV V8 3.875" Bore (Chevrolet) L/D Truck .....	1967-57	32
2.3L 140 SOHC L4 3.5" Bore (Chevrolet) L/D Truck .....	1975-71	6	4.7L 288 OHV V8 3.75" Bore (Pontiac) L/D Truck ...	1955	33
2.4L 145 OHV H6 3.4375" Bore (Corvair) L/D Truck .....	1963-61	7	4.8L 292 OHV L6 3.875" Bore (Chevrolet) L/D Truck .....	1989-63	34
2.5L 151 OHV L4 4" Bore (Pontiac) L/D Truck.....	1990-85	8	4.8L 292 OHV LPG L6 3.875" Bore (Chevrolet) L/D Truck .....	1976-74	35
2.5L 153 OHV L4 3.875" Bore (Chevrolet) L/D Truck .....	1967-63	9	5.0L 305 OHV V8 3.736" Bore (Chevrolet) L/D Truck .....	1990-76	36
2.6L 159 OHV Diesel L3 3.875" Bore (3-53) (Detroit Diesel Eng.) L/D Truck.....	1970-67	10	5.0L 305 OHV V6 4.25" Bore (GMC) L/D Truck .....	1969-60	37
2.7L 164 OHV H6 3.4375" Bore (Corvair) L/D Truck .....	1964	11	5.0L 307 OHV V8 3.875" Bore (Chevrolet) L/D Truck .....	1973-68	38
2.8L 173 (2835cc) OHV V6 89mm Bore (Chevrolet) L/D Truck .....	1990-82	12	5.2L 316 OHV V8 3.9375" Bore (Pontiac) L/D Truck .....	1956-55	39
3.1L 189 (3136cc) OHV V6 89mm Bore (Chevrolet) L/D Truck .....	1990	13	5.3L 327 OHV V8 4" Bore (Chevrolet) L/D Truck .....	1969-62	40
3.2L 194 OHV L6 3.5625" Bore (Chevrolet) L/D Truck .....	1966-63	14	5.5L 336.9 OHV V8 3.875" Bore (Pontiac) L/D Truck .....	1959	41
3.3L 200 OHV V6 3.5" Bore (Chevrolet) L/D Truck ..	1979-78	15	5.7L 347 OHV V8 3.9375" Bore (Pontiac) L/D Truck .....	1957	42
3.5L 216.5 OHV L6 3.5" Bore (Chevrolet) L/D Truck .....	1952-38	16	5.7L 348 OHV V8 4.125" Bore (Chevrolet) L/D Truck .....	1960-58	43
3.7L 228 OHV L6 3.5625" Bore (GMC) L/D Truck ...	1959-39	17	5.7L 350 OHV V8 4" Bore (Chevrolet) L/D Truck .....	1990-69	44
3.8L 229 OHV V6 3.736" Bore (Chevrolet) L/D Truck .....	1984-80	18	5.7L 350 OHV LPG V8 4" Bore (Chevrolet) L/D Truck .....	1976-69	45
3.8L 230 OHV L6 3.875" Bore (Chevrolet) L/D Truck .....	1969-63	19	5.7L 350 OHV Diesel V8 4.057" Bore (Oldsmobile) L/D Truck .....	1984-78	46
3.8L 231 OHV V6 3.8" Bore (Buick) L/D Truck.....	1984-78	20	5.7L 351 OHV V6 4.5625" Bore (GMC) L/D Truck ...	1968-65	47
3.8L 235 OHV L6 3.5625" Bore (Chevrolet) L/D Truck .....	1963-50	21	6.0L 366 OHV V8 3.9375" Bore (Chevrolet) L/D Truck .....	1967-66	48
3.9L 235.3 (3856cc) OHV Diesel L4 102mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	1988-87	22	6.2L 379 (6211cc) OHV Diesel V8 101mm Bore (Chevrolet) L/D Truck.....	1990-82	49
3.9L 235.3 (3856cc) OHV Turbo-Diesel L4 102mm Bore (8 Valve) (Isuzu Eng.) L/D Truck .....	1990-87	23	6.5L 396 OHV V8 4.0938" Bore (Chevrolet) L/D Truck .....	1969-66	50
3.9L 239 OHV Turbo-Diesel L4 4.0197" Bore (Cummins Eng.) L/D Truck .....	1990-89	24	6.6L 400 OHV V8 4.125" Bore (Chevrolet) L/D Truck .....	1980-70	51
4.1L 248 OHV L6 3.7188" Bore (GMC) L/D Truck ...	1955-54	25	6.6L 402 OHV V8 4.125" Bore (Chevrolet) L/D Truck .....	1972-70	52
4.1L 250 OHV L6 3.875" Bore (Chevrolet) L/D Truck .....	1984-66	26	6.6L 403 OHV V8 4.351" Bore (Oldsmobile) L/D Truck .....	1978-77	53
4.3L 261 OHV L6 3.75" Bore (Chevrolet) L/D Truck .....	1962-61	27	7.4L 454 OHV V8 4.25" Bore (Chevrolet) L/D Truck .....	1990-70	54
			7.5L 455 OHV V8 4.125" Bore (Oldsmobile) L/D Truck .....	1976-73	55

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
C223 .....	2.2L 136.5 (2238cc) OHV Diesel L4 88mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	5	4BD1-N.....	3.9L 235.3 (3856cc) OHV Diesel L4 102mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	22
G16KC.....	1.6L 97 (1590cc) SOHC L4 75mm Bore (8 Valve) (Suzuki Eng.) L/D Truck .....	1	4BD1-T .....	3.9L 235.3 (3856cc) OHV Turbo-Diesel L4 102mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	23
G180Z.....	1.8L 110.8 (1817cc) SOHC L4 84mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	2	4BD2-TC.....	3.9L 235.3 (3856cc) OHV Turbo-Diesel L4 102mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	23
G200Z.....	1.9L 118.9 (1949cc) SOHC L4 87mm Bore (8 Valve) (Isuzu Eng.) L/D Truck.....	3			

### 1.6L 97 (1590cc) SOHC L4 (8 Valve), 75mm Bore (Suzuki Eng.) 1990-89 L/D Truck VIN Code "U" 1989-95, Eng. Code "G16KC" 1989-95 1

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	<b>222-B164</b>	
1	Timing Belt Tensioner	90-89	<b>222-182BT</b>	
1	Timing Belt & Tensioner Set	90-89	<b>BTS-212</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-89	<b>V-2631</b> Std Only	Chrome plated stem; 1.2780" Head Dia., .2736" Stem Dia., 4.5060" O.A.L.
4	Intake	90-89	<b>V-2630</b> Std Only	Chrome plated stem; 1.4410" Head Dia., .2740" Stem Dia., 4.5500" O.A.L.

(continued on next page)

# GMC Truck (Includes Minivans)

<b>1 1.6L 97 (1590cc) SOHC L4 (8 Valve), 75mm Bore (Suzuki Eng.) 1990-89</b> (cont.) L/D Truck VIN Code "U" 1989-95, Eng. Code "G16KC" 1989-95																			
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION															
8	Guide	90-89	VG-817	.2757" ID, 1.8950" O.A.L.															
16	VALVE, MISC Keeper	90-89	VK-248	Exh. & Int.															
4	PISTON Cast Piston	90-89	H586P Std-.50MM	Hypereutectic; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 1.104" CD, .7480" Pin Dia., Recessed Head .130" deep x 2.350" dia. w/2 valve reliefs															
4	Cast Piston - Individual	90-89	WH586P Std Only	Hypereutectic; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 1.104" CD, .7480" Pin Dia., Recessed Head .130" deep x 2.350" dia. w/2 valve reliefs															
1	RINGS Premium Set	90-89	E-515KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM															
4	Premium Single Cylinder Set	90-89	WE-515KC Std-.50MM	1-1.20MM, 1-1.50MM, 1-2.80MM															
1	ENGINE BEARINGS Main Set	90-89	7208M Std-.25-.50MM																
1	Thrust Washer Set	90-89	4191AF Std Only	Position 3															
1	Rod Set	90-89	4-4190CP Std-.25-.50MM																
1	GASKETS Kit Gasket Set	90-89	260-1812	Premium valve stem seals incl.															
<b>RE-RING KIT</b> <table border="0"> <tr> <td>YEARS</td> <td>DESCRIPTION</td> <td></td> <td>PREMIUM KIT NO.</td> <td>ECONOMY KIT NO.</td> </tr> <tr> <td>90-89</td> <td>Premium valve stem seals incl.</td> <td>Re-ring</td> <td>205-6812</td> <td>----</td> </tr> <tr> <td></td> <td></td> <td>Re-ring w/Mains</td> <td>205-6812M</td> <td>----</td> </tr> </table>					YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	90-89	Premium valve stem seals incl.	Re-ring	205-6812	----			Re-ring w/Mains	205-6812M	----
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.															
90-89	Premium valve stem seals incl.	Re-ring	205-6812	----															
		Re-ring w/Mains	205-6812M	----															
<b>2 1.8L 110.8 (1817cc) SOHC L4 (8 Valve), 84mm Bore (Isuzu Eng.) 1982-72</b> L/D Truck VIN Code "N" 1972-82, Eng. Code "G180Z" 1972-82																			
1	TIMING Timing Chain	82-81	222-3DR58	Double rlr.; 58 Links															
1	CAMSHAFT/LIFTER Camshaft	82-76	CS-720																
1	Prelube	82-76	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.															
8	ROCKER PARTS Arm	82-76	R-901																
4	VALVE Exhaust	82-80	V-2251 Std Only	Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.															
4	Exhaust	79-76	V-2180 Std Only	Chrome plated stem; 1.3360" Head Dia., .3125" Stem Dia., 4.3620" O.A.L.															
4	Intake	82-80	V-2252 Std Only	Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.															
4	VALVE GUIDE Guide	82-76	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.															
4	Guide	82-76	VG-698	Int.; .3145" ID, 1.8000" O.A.L.															
4	Guide	75-72	VG-729	Exh.; .3145" ID, 1.9900" O.A.L.															
8	VALVE SEAL Valve Stem Seal	82-72	ST-2034	Positive type; Viton®															
4	VALVE SEAT Int.	79-76	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth															
16	VALVE, MISC Keeper	82-72	VK-215																
8	Spring Insert	82-72	259-106B	.030"; Carton of 100															
1	PISTON Pin Bushing Set	82-72	4-3574Y																
1	RINGS Premium Set	82-72	E-357KC Std-1.00MM	2-2.00MM, 1-4.00MM															
1	Standard Set	82-72	E-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM															
4	Premium Single Cylinder Set	82-72	WE-357KC Std-.50-.75MM	2-2.00MM, 1-4.00MM															
4	Standard Single Cylinder Set	82-72	WE-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM															
1	ENGINE BEARINGS Main Set	82-72	5028M Std-.25-.50-.75MM																
1	Thrust Washer Set	82-72	3571BF Std Only	Position 3															
1	Rod Set	82-72	4-3570CPB Std-.25-.50-.75-1.00MM																

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## GMC Truck (Includes Minivans)

1.8L 110.8 (1817cc) SOHC L4 (8 Valve), 84mm Bore (Isuzu Eng.) 1982-72 <b>2</b>						
L/D Truck VIN Code "N" 1972-82, Eng. Code "G180Z" 1972-82 (cont.)						
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	82-76	260-1090	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
<b>YEARS</b>	<b>DESCRIPTION</b>			205-829	205-329	
82-76	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.				Re-ring	
1.9L 118.9 (1949cc) SOHC L4 (8 Valve), 87mm Bore (Isuzu Eng.) 1985-82 <b>3</b>						
L/D Truck VIN Code "A" 1982-85, Eng. Code "G200Z" 1982-85						
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Camshaft	85-82	CS-720			
1	Prelube	85-82	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Arm	85-82	R-901			
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exhaust	85-82	V-2251 Std Only	Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.		
4	Intake	85-82	V-2252 Std Only	Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	85-82	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.		
4	Guide	85-82	VG-698	Int.; .3145" ID, 1.8000" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	85-84	VS-1528	1.8960" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	85-82	ST-2034	Positive type; Viton®		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Int.	85-82	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	85-82	VK-215			
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Cast Piston	85-83	592P.75MM	.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.455" CD, .8662" Pin Dia., Flat Head	
1	Pin Bushing Set	85-82	4-3574Y			
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	85-83	E-484K.75MM	.75MM	2-1.50MM, 1-4.00MM	
1	Premium Set	82	E-483KC	Std-.50-1.00MM	2-2.00MM, 1-4.00MM	
1	Premium Set	82	E-483K.75MM	Std-.75MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	85-83	WE-484K	Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	82	WE-483K	Std-.75MM	2-2.00MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	85-82	5028M	Std-.25-.50-.75MM		
1	Thrust Washer Set	85-82	3571BF	Std Only	Position 3	
1	Rod Set	85-82	4-3570CPB	Std-.25-.50-.75-1.00MM		
1	Cam Set	85-82	1858M	Std Only		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	85-82	260-1090	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
<b>YEARS</b>	<b>DESCRIPTION</b>			205-6035	----	
85-83	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.				Re-ring	
2.0L 121 (1989cc) OHV L4 (Chevrolet), 89mm Bore 1984-83 <b>4</b>						
L/D Truck VIN Code "Y" 1983-84						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	3 Piece Set	84-83	KT3-370S	Incl. silent type chain; Incl. (1) 222-370, (1) 223-549, (1) 223-558		
1	Timing Chain	84-83	222-370	Silent type; 58 Links		
1	Timing Chain Tensioner	84-83	222-115CT			
1	Crank Sprocket	84-83	223-549	20 Teeth		
1	Cam Sprocket	84-83	223-558	40 Teeth		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Lifter	84-83	HT-969	Std Only	Hyd.; w/.440" wide oil groove	
8	Lifter, Bulk	84-83	HT-969B	Std Only	Hyd.; Carton of 128	

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# GMC Truck (Includes Minivans)

<b>4 2.0L 121 (1989cc) OHV L4 (Chevrolet), 89mm Bore 1984-83</b> (cont.) L/D Truck VIN Code "Y" 1983-84				
QTY	PART NO.	YEARS	DESCRIPTION	
8	PUSH ROD	84-83	RP-3231	7.2060" O.A.L.
	Push Rod, Bulk	84-83	BRP-3231	Carton of 100; 7.2060" O.A.L.
8	ROCKER PARTS	84-83	R-881	Incl. arm, ball & nut
	Arm Assy., Bulk	84-83	R-881B	Incl. arm, ball & nut; Carton of 64
	Arm	84-83	R-881A	
	Pivot Ball	84-83	MR-1838	
	Stud	84-83	MR-1883	
8	VALVE SPRING	84-83	VS-727	Incl. damper; 1.9100" Free Height
	Spring, Bulk	84-83	VS-727B	Incl. damper; Carton of 250; 1.9100" Free Height
4	VALVE SEAL	84-83	ST-2043	Exh.; Positive type; Rubber
	Valve Stem Seal	84-83	ST-2044	Int.; Positive type; Rubber
	Valve Stem Seal Bulk	84-83	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber
16	VALVE, MISC	84-83	VK-216	1 groove
	Keeper, Bulk	84-83	VK-216B	1 groove; Carton of 1000
1	RINGS	84-83	E-428K.75MM .75-1.00-1.50MM	Use w/493NP piston; 2-1.50MM, 1-4.76MM
	Standard Set	84-83	E-428X Std Only	Use w/493NP piston; 2-1.50MM, 1-4.76MM
	Standard Set	84-83	E-460X Std Only	2-2.00MM, 1-4.76MM; Use w/O.E. piston
	Premium Single Cylinder Set	84-83	WE-428K.75MM .75-1.00MM	Use w/W493NP .75mm piston; 2-1.50MM, 1-4.76MM
1	ENGINE BEARINGS	84-83	5138MA Std-.25-.50-.75MM	A-Series aluminum bearings
	Rod Set	84-83	4-2020CP Std-1-10-20-30-40	
	Rod Pair	84-83	2020CP Std-1-2-10-20-30-40-50	
	Cam Set	84-83	1485M Std-2	Full round design
	Cam Set	84-83	1786M Std Only	O.E. split type design
1	OIL PUMP	84-83	224-4151	
	Oil Pump	84-83	224-6151	
	Inter. Shaft	84-83	224-43351	Nylon
	Oil Pump Shaft Guide	84-83	MT-J21882	Pump screen installation tool for 5/8" tube
1	TOOL	84-83	MT-J21882	Pump screen installation tool for 5/8" tube
	Tool	84-83	MT-J21882	Pump screen installation tool for 5/8" tube
	Tool	84-83	MT-J21882	Pump screen installation tool for 5/8" tube
	Tool	84-83	MT-J21882	Pump screen installation tool for 5/8" tube
<b>5 2.2L 136.5 (2238cc) OHV Diesel L4 (8 Valve), 88mm Bore (Isuzu Eng.) 1985-81</b> L/D Truck VIN Code "S" 1981-85, Eng. Code "C223" 1981-85				
1	RINGS	85-84	E-786KC Std Only	2-2.00MM, 1-4.00MM; Use w/Cast iron liners
	Premium Set	82-81	E-837KC Std Only	1-2.50MM, 1-2.00MM, 1-4.50MM; Use w/Cast iron liners
1	ENGINE BEARINGS	85-81	7094M Std-.25MM	
	Main Set	85-81	67006BF Std Only	Position 3
	Thrust Washer Set	85-81	4-4000CP Std-.25-.50-.75-1.00MM	
	Rod Set	85-81	1746M Std Only	
1	Cam Set	85-81	1746M Std Only	
	Cam Set	85-81	1746M Std Only	
<b>6 2.3L 140 SOHC L4 (Chevrolet), 3.5" Bore 1975-71</b> L/D Truck VIN Codes "A" 1971-75, "B" 1971-75				
1	ENGINE BEARINGS	75-71	4-2020CP Std-1-10-20-30-40	
	Rod Set	75-71	2020CP Std-1-2-10-20-30-40-50	
4	Rod Pair	75-71	2020CP Std-1-2-10-20-30-40-50	
	Rod Pair	75-71	2020CP Std-1-2-10-20-30-40-50	
<b>7 2.4L 145 OHV H6 (Corvair), 3.4375" Bore 1963-61</b> L/D Truck				
12	CAMSHAFT/LIFTER	63-61	HT-817 Std Only	Hyd.
	Lifter	63-61	HT-817B Std Only	Hyd.; Carton of 128
12	ROCKER PARTS	63-61	MR-1783	
	Pivot Ball	63-61	MR-1751	Self-locking, 3/8" x 24 threads
12	ROCKER PARTS	63-61	MR-1783	
	Nut	63-61	MR-1751	Self-locking, 3/8" x 24 threads

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# GMC Truck (Includes Minivans)

**2.4L 145 OHV H6 (Corvaire), 3.4375" Bore 1963-61 7**  
**L/D Truck (cont.)**

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	63-61	VG-6182	.3435" ID, 2.2200" O.A.L.
12	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	Spring	63-61	VS-521	Incl. damper; 2.1090" Free Height
12	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	Valve Stem Seal	63-61	ST-2012	Positive type; PTFE
24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	Keeper	63-61	VK-115	1 groove; Square cut key groove
24	Keeper	63-61	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	63-61	VK-115B	1 groove; Square cut key groove; Carton of 1000
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	Main Set	63-61	4063M Std-10	Full flanged brgs.
1	Rod Set	63-61	6-2385CP Std-10	
6	Rod Pair	63-61	2385CP Std-10	

**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-85 8**  
**L/D Truck VIN Codes "A" 1991-93, "E" 1985-91**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	90-85	221-2542LS	Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542
1	Crank Gear	90-85	221-2537	27 Teeth
1	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	Camshaft	90-85	CS-782	VIN Code "E"
8	Lifter	90-85	HT-2148 Std Only	Hyd. rlr.
8	Lifter, Bulk	90-85	HT-2148B Std Only	Hyd. rlr.; Carton of 128
1	Prelube	90-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	CAM KIT	YEARS	PART NO.	DESCRIPTION
	Cam/Lifter Kit	90-85	KC-782	VIN Code "E"; Hyd. rlr.; Incl. (1) CS-782, (8) HT-2148, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-85	KCT-782	VIN Code "E"; Hyd. rlr.; Incl. laminated cam gear; Incl. (1) CS-782, (8) HT-2148, (1) 221-2542LS, (1) 55-403B
8	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	Push Rod	90-87	RP-3263	8.2720" O.A.L.
8	Push Rod	86-85	RP-3170	8.3830" O.A.L.
8	Push Rod, Bulk	90-87	BRP-3263	Carton of 100; 8.2720" O.A.L.
8	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	Arm Assy.	90-85	R-894	Incl. arm & 2-pivots
8	Arm Assy., Bulk	90-85	R-894B	Incl. arm & 2-pivots; Carton of 64
8	Arm	90-85	R-894A	
8	Pivot Ball	90-85	MR-1832	Hole I.D. .4365"
8	Pivot Ball	90-85	MR-1841	Hole I.D. .4745"
8	Nut	90-85	MR-1934	3/8" x 24 UNF
8	Bolt	86-85	MR-1936	
4	VALVE	YEARS	PART NO.	DESCRIPTION
	Exhaust	90-89	V-2529 Std-15	Chrome plated stem; 1.5000" Head Dia., .3133" Stem Dia., 4.5410" O.A.L.
4	Exhaust	88-87	V-2436 Std Only	Chrome plated stem; 1.5000" Head Dia., .3132" Stem Dia., 4.3550" O.A.L.
4	Exhaust	86-85	V-2203 Std Only	Chrome plated stem; 1.5000" Head Dia., .3422" Stem Dia., 4.6200" O.A.L.
4	Exhaust, Bulk	90-89	V-2529B15 15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3258" Stem Dia., 4.5410" O.A.L.
4	Intake	90-89	V-2530 Std-15	Chrome plated stem; 1.7201" Head Dia., .3135" Stem Dia., 4.5910" O.A.L.
4	Intake	88-87	V-3941 Std Only	Chrome plated stem; 1.7200" Head Dia., .3135" Stem Dia., 4.3940" O.A.L.
4	Intake	86-85	V-2204 Std Only	Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
4	Intake, Bulk	90-89	V-2530B15 15	Chrome plated stem; Carton of 25; 1.7201" Head Dia., .3285" Stem Dia., 4.5910" O.A.L.
8	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	Guide	90-85	VG-5005H	Exh. & Int.; w/.343" stem dia.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	90-85	VG-5005T	Exh. & Int.; w/.343" stem dia.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide	90-85	VG-5083T	Exh. & Int.; Threaded; w/8.0MM valve stem dia.; .3150" ID, 2.2500" O.A.L.
8	Guide	86-85	VG-5005	Exh. & Int.; w/.343" stem dia.; .3430" ID, 2.2500" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GMC Truck (Includes Minivans)

**8** 2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-85  
 (cont.) L/D Truck VIN Codes "A" 1991-93, "E" 1985-91

	QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	8	Guide, Bulk	90-85	<b>VG-5005TB</b>	Exh. & Int.; w/.343" stem dia.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
	8	Guide, Bulk	86-85	<b>VG-5005B</b>	Exh. & Int.; w/.343" stem dia.; Carton of 50; .3430" ID, 2.2500" O.A.L.
	8	Spring	90-89	<b>VS-922</b>	Incl. damper; 2.0080" Free Height
	8	Spring	88-87	<b>VS-861</b>	Incl. damper; 1.8240" Free Height
	8	Spring, Bulk	88-87	<b>VS-861B</b>	Incl. damper; Carton of 300; 1.8240" Free Height
	8	Valve Stem Seal	90-87	<b>ST-2087</b>	Exh. & Int.; Positive type; Viton®
	8	Valve Stem Seal	86-85	<b>MV-1233C</b>	O-Ring; Rubber
	8	Valve Stem Seal Bulk	86-85	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
	4	Exh.	90-85	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
	4	Exh.	90-85	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	90-85	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth	
4	Int.	90-85	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth	
BLOCK	16	Keeper	90-87	<b>VK-216</b>	1 groove
	16	Keeper	86-85	<b>VK-115</b>	1 groove; Square cut key groove
	16	Keeper	86-85	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
	16	Keeper, Bulk	90-87	<b>VK-216B</b>	1 groove; Carton of 1000
	16	Keeper, Bulk	86-85	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
	4	Cast Piston	90-85	<b>H547CP</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
	4	Cast Piston	90-85	<b>H547P</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
	4	Cast Piston - Individual	90-85	<b>WH547CP</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
	4	Cast Piston - Individual	90-85	<b>WH547P</b> Std-20-30-40-60	VIN Code "E"; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
	1	Cast Piston Set w/Prem. Rings	90-85	<b>4KH547CP60</b> 60	VIN Code "E"; Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
BLOCK	1	Premium Set	90-85	<b>E-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
	1	Standard Set	90-85	<b>E-384X</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
	4	Premium Single Cylinder Set	90-85	<b>WE-384K</b> Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
	1	Main Set	90-85	<b>6689MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>
	1	Rod Set	90-85	<b>4-2500RAA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Rod Set	90-85	<b>4-2500RAA10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
	4	Rod Pair	90-85	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Cam Set	90-85	<b>1461M</b> Std Only	
	1	Oil Pump	90-85	<b>224-41239</b>	
	1	Oil Pump	90-85	<b>224-41239V</b>	High Volume, check pan for clearance
1	Inter. Shaft	90-85	<b>224-61239</b>		
1	Screen Assy.	90-85	<b>224-11239</b>		
BLOCK	1	Kit Gasket Set	90-88	<b>260-1482</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	<b>260-1228</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	86-85	<b>260-1178</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.
	1	Head Bolt Set	90-85	<b>260-2504</b>	Replacement recommended

(continued on next page)

# GMC Truck (Includes Minivans)

**2.5L 151 OHV L4 (Pontiac), 4" Bore 1990-85 8**  
**L/D Truck VIN Codes "A" 1991-93, "E" 1985-91 (cont.)**

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-86	<b>381-8074</b>			
1	Brass Block Plug Kit	85	<b>381-8045</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	90-88	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6155</b> <b>205-6155M</b>	<b>205-1155</b> <b>205-1155M</b>	
	87	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6007</b> <b>205-6007M</b>	<b>205-1007</b> <b>205-1007M</b>	
	86-85	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-769A</b> <b>205-769AM</b>	<b>205-269A</b> <b>205-269AM</b>	
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	90-88	VIN Code "E"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6155A</b> <b>MK-6155A</b>	<b>MKP-1155A</b> <b>MK-1155A</b>	
	90-88	VIN Code "E"; Exh. pipe packing not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6155A</b>	<b>505-1155A</b>	
	87	VIN Code "E"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. laminated cam gear	Master Master w/o Pistons	<b>MKP-6007A</b> <b>MK-6007A</b>	<b>MKP-1007A</b> <b>MK-1007A</b>	
87	VIN Code "E"; Exh. pipe packing not incl.; Premium valve stem seals incl.; Incl. laminated cam gear	Master w/o Rods & Mains	<b>505-6007A</b>	<b>505-1007A</b>		

**2.5L 153 OHV L4 (Chevrolet), 3.875" Bore 1967-63 9**  
**L/D Truck**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Gear Set	65	<b>221-2525S</b>	Incl. (1) 221-2524, (1) 221-2537	
1	Gear Set	64	<b>221-2525S</b>	P10 Series & G10 Van; Incl. (1) 221-2524, (1) 221-2537	
1	Gear Set	64-63	<b>221-2523S</b>	Incl. (1) 221-2522, (1) 221-2537	
1	Crank Gear	65-63	<b>221-2537</b>	27 Teeth	
1	Cam Gear	65	<b>221-2524</b>	Alum.; 54 Teeth	
1	Cam Gear	64	<b>221-2524</b>	P10 Series & G10 Van; Alum.; 54 Teeth	
1	Cam Gear	64-63	<b>221-2522</b>	Alum.; 54 Teeth	
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Lifter	65-63	<b>HT-817</b> Std Only	Hyd.
	8	Lifter, Bulk	65-63	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Push Rod	65-63	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.
	8	Push Rod	65-63	<b>RP-3180</b>	9.6800" O.A.L.
	8	Push Rod, Bulk	65-63	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Arm Assy.	65-63	<b>R-832</b>	Incl. arm, ball & nut
	8	Arm Assy., Bulk	65-63	<b>R-832B</b>	Incl. arm, ball & nut; Carton of 64
8	Arm	65-63	<b>R-832A</b>		
8	Pivot Ball	65-63	<b>MR-1780</b>		
8	Nut	65-63	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads	
8	Stud	65-63	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"	
8	Stud	65-63	<b>MR-1949</b>	3/8" x 24 x 2.495"	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	65-63	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
4	Exhaust, Bulk	65-63	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
4	Intake	65-63	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
4	Intake, Bulk	65-63	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	65-63	<b>VS-521</b>	Incl. damper; 2.1090" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	65-63	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
8	Valve Stem Seal	65-63	<b>MV-1233C</b>	O-Ring; Rubber	
8	Valve Stem Seal Bulk	65-63	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber	
8	Valve Stem Seal Bulk	65-63	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	65-63	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth	

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# GMC Truck (Includes Minivans)

## 9 2.5L 153 OHV L4 (Chevrolet), 3.875" Bore 1967-63 (cont.) L/D Truck

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
4	Exh.	65-63	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
4	Int.	65-63	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	65-63	VK-115	1 groove; Square cut key groove
16	Keeper	65-63	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	65-63	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	65-63	259-203C	.015"; Carton of 100
8	Spring Insert	65-63	259-203B	.030"; Carton of 100
8	Spring Insert	65-63	259-203BRS	.030"; Carton of 500
8	Spring Insert	65-63	259-203A	.060"; Carton of 100
8	Spring Insert	65-63	259-203ARS	.060"; Carton of 500
4	Rotocap	65-63	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	65-63	1108P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
4	Cast Piston	65-63	1108NP * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
4	Cast Piston - Individual	65-63	W1108NP30 * 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	65-63	E-450K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	65-63	E-450X Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set	65-63	WE-450K Std-20-30-40-60	2-5/64, 1-3/16
4	Standard Single Cylinder Set	65-63	WE-450X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	65-63	4123MA Std-1-10-20-30	A-Series aluminum bearings
1	Rod Set	65-63	4-2020CP Std-1-10-20-30-40	
4	Rod Pair	65-63	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	65-63	1202M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	65-63	224-4147	
1	Oil Pump	65-63	224-4157	High Volume, check pan for clearance
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	67-63	260-1230	

RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
65-63			Re-ring	205-6009	205-1009
65-63	Incl. A-Series aluminum bearings		Re-ring w/Mains	205-6009M	205-1009M

## 10 2.6L 159 OHV Diesel L3 (3-53), 3.875" Bore (Detroit Diesel Eng.) 1970-67 L/D Truck VIN Code "T" 1965-70, 3-53 (2-Valve Cyl. Head), 3-53N (4-Valve Cyl. Head) Eng.

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
3	Pin Bushing	70-67	2619Y20	2 req'd. per rod; O.E. No. 5116181
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
4	Plain Main Brg.	70-67	2611CPA Std-10-20-30	
1	Thrust Washer Set	70-67	2611AF Std Only	Position Rear
3	Rod Pair	70-67	2610CPA Std-10-20-30-40	
1	Cam Set	70-67	1211M Std Only	

## 11 2.7L 164 OHV H6 (Corvair), 3.4375" Bore 1964 L/D Truck

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	64	HT-817 Std Only	Hyd.
12	Lifter, Bulk	64	HT-817B Std Only	Hyd.; Carton of 128
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	64	RP-3077	10.2850" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Pivot Ball	64	MR-1783	
12	Nut	64	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	64	VG-6182	.3435" ID, 2.2200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	64	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	64	MV-1903	Use w/repair guide; Positive type; Rubber

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## GMC Truck (Includes Minivans)

<b>2.7L 164 OHV H6 (Corvaire), 3.4375" Bore 1964 11</b>					
<b>L/D Truck (cont.)</b>					
	QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
	12	Valve Stem Seal	64	<b>ST-2012</b>	Use w/O.E. guide; Positive type; PTFE
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	24	Keeper	64	<b>VK-115</b>	1 groove; Square cut key groove
	24	Keeper	64	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
	24	Keeper, Bulk	64	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Powerforged	64	<b>L-2206F</b> Std-20-30-40-60	Powerforged; 2-1/16", 1-1/8" Ring Groove, 1.584" CD, .8001" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
	6	Forged Piston - Individual	64	<b>WL-2206F</b> Std-20-30-40-60	Powerforged; 2-1/16", 1-1/8" Ring Groove, 1.584" CD, .8001" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	64	<b>E-227K</b> Std-20-30-40-60	2-1/16, 1-1/8
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	64	<b>4063M</b> Std-10	Full flanged brgs.	
1	Rod Set	64	<b>6-2385CP</b> Std-10		
6	Rod Pair	64	<b>2385CP</b> Std-10		
<b>2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1990-82 12</b>					
<b>L/D Truck VIN Codes "B" 1982-85, "R" 1986-93</b>					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	3 Piece Set	90-82	<b>KT3-368S</b>	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
	1	3 Piece Set	90-82	<b>KT3-373S</b>	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
	1	Timing Chain	90-82	<b>222-368</b>	11 links wide; 64 Links
	1	Chain Damper	90-82	<b>222-59CT</b>	
	1	Crank Sprocket	90-82	<b>223-511</b>	20 Teeth
	1	Cam Sprocket	90-82	<b>223-506</b>	40 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	90-86	<b>CS-1539</b>	
	1	Camshaft	85-82	<b>CS-715</b>	
	12	Lifter	90-82	<b>HT-2095</b> Std Only	Hyd.
	12	Lifter, Bulk	90-82	<b>HT-2095B</b> Std Only	Hyd.; Carton of 128
	1	Prelube	90-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	90-86	<b>KC-1539</b>	Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B
	1	Cam/Lifter Kit	85-82	<b>KC-715</b>	Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
	1	Cam/Lifter/Timing Kit	85-82	<b>KCT-715</b>	Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90-82	<b>RP-3207</b>	6.1630" O.A.L.	
12	Push Rod, Bulk	90-82	<b>BRP-3207</b>	Carton of 100; 6.1630" O.A.L.	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Arm Assy.	90-82	<b>R-881</b>	Incl. arm, ball & nut	
12	Arm Assy., Bulk	90-82	<b>R-881B</b>	Incl. arm, ball & nut; Carton of 64	
12	Arm	90-82	<b>R-881A</b>		
12	Pivot Ball	90-82	<b>MR-1838</b>		
12	Stud	90-82	<b>MR-1883</b>		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Exhaust	90-86	<b>V-2290</b> Std-15	Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.	
6	Exhaust	85-82	<b>V-2172</b> Std Only	Chrome plated stem; 1.3070" Head Dia., .3413" Stem Dia., 4.7300" O.A.L.	
6	Exhaust, Bulk	90-86	<b>V-2290B15</b> 15	Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.	
6	Intake	90-86	<b>V-2291</b> Std-15	Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.	
6	Intake	85-82	<b>V-2173</b> Std-15	Chrome plated stem; 1.5980" Head Dia., .3410" Stem Dia., 4.6970" O.A.L.	
6	Intake, Bulk	90-86	<b>V-2291B15</b> 15	Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.	
6	Intake, Bulk	85-82	<b>V-2173B15</b> 15	Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3563" Stem Dia., 4.7000" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Guide	90-82	<b>VG-1377</b>	Exh. & Int.; w/Alum. heads; Incl. lock ring; Threaded; .3155" ID, 2.0850" O.A.L.	

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# GMC Truck (Includes Minivans)

**12 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1990-82**  
 (cont.) L/D Truck VIN Codes "B" 1982-85, "R" 1986-93

QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION
12	Guide	90-82	VG-5080	Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-82	VS-798	Exh. & Int.; 1.9100" Free Height
12	Spring, Bulk	90-82	VS-798B	Exh. & Int.; Carton of 250; 1.9100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-82	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal	90-82	MV-1888A	Positive type; Viton®
12	Valve Stem Seal Bulk	90-82	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	90-82	MV-1888	Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-86	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90-86	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90-86	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6	Int.	90-86	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
6	Exh.	85-82	245-1437-3N Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	85-82	245-1437-3 Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	85-82	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
6	Int.	85-82	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-82	VK-115	1 groove; Square cut key groove
24	Keeper	90-82	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	90-82	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	90-82	259-201B	.030"; Carton of 100
12	Spring Insert	90-82	259-201A	.060"; Carton of 100
12	Spring Insert	90-82	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-86	516P Std-.50-.75-1.00-1.50MM	Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	90-86	516CP.50MM .50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston	85-82	464P Std-.50-.75-1.00-1.50MM	Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston	85-82	464CP Std-.50-.75-1.00-1.50MM	VIN Code "B"; Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; DurOshield® skirt coated piston
6	Cast Piston - Individual	90-86	W516P Std-.50-.75-1.00-1.50MM	Use w/WE-432K or WE-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	90-86	W516CP.50MM .50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 1-1.75mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston - Individual	85-82	W464CP Std-.50-.75-1.00-1.50MM	VIN Code "B"; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; DurOshield® skirt coated piston
6	Cast Piston - Individual	85-82	W464P Std-.50-.75-1.00-1.50MM	VIN Code "B"; Use w/WE-411K or WE-411X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
1	Cast Piston Set w/Prem. Rings	85-82	6K464CP.75MM .75-1.00MM	VIN Code "B"; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, 23.0mm Pin Dia., Flat Head; DurOshield® skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-85	E-432K Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Premium Set	84-82	E-411K Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Premium Set	84-82	E-411KC Std-.50-.75-1.00MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Standard Set	90-85	E-432X Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Standard Set	84-82	E-411X Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM

(continued on next page)

# GMC Truck (Includes Minivans)

**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1990-82 12**  
**L/D Truck VIN Codes "B" 1982-85, "R" 1986-93 (cont.)**

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
6	Premium Single Cylinder Set	90-86	<b>WE-478K</b> Std-.50-.75-1.00MM	Use w/W516CP .50mm piston; 2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-85	<b>WE-432K</b> Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Premium Single Cylinder Set	84-82	<b>WE-411K</b> Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Standard Single Cylinder Set	90-86	<b>WE-478X</b> Std-.50-.75-1.00MM	Use w/W516CP .50mm piston; 2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	90-85	<b>WE-432X</b> Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Standard Single Cylinder Set	84-82	<b>WE-411X</b> Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
<b>B L O C K</b>				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	<b>7244MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	90-85	<b>7242MA</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Main Set	85-82	<b>5090MA</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size
1	Main Set	85-82	<b>7243MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size; .50MM O/S length flange brg.
1	Main Set	85-82	<b>7241MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size; 3/4 grooved
1	Rod Set	90-82	<b>6-4020A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-82	<b>6-4020A25X2</b> 25X2-50X2-75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
6	Rod Pair	90-82	<b>4020A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
6	Rod Pair	90-82	<b>4020P +</b> Std-.026MM	When depleted use 4020A
1	Cam Set	90-82	<b>1492M</b> Std Only	Full round design
1	Cam Set	90-82	<b>1785M</b> Std Only	O.E. split type design
<b>B L O C K</b>				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	<b>224-4148V</b>	1st design; High Volume, check pan for clearance; 5/8" inlet
1	Oil Pump	90	<b>224-4148</b>	1st design; 5/8" inlet
1	Oil Pump	90	<b>224-4152V</b>	2nd design; 2nd Design; High Volume, check pan for clearance; 3/4" inlet
1	Oil Pump	90	<b>224-4152</b>	2nd design; 3/4" inlet
1	Oil Pump	89-82	<b>224-4148V</b>	High Volume, check pan for clearance; 5/8" inlet
1	Oil Pump	89-82	<b>224-4148</b>	5/8" inlet
1	Pump Repair Kit	90-82	<b>224-51317</b>	
1	Inter. Shaft	90-82	<b>224-6148</b>	
1	Oil Pump Shaft Guide	90-82	<b>224-43351</b>	Nylon
1	Screen Assy.	90-86	<b>224-14266</b>	VIN Code "R"; 3/4" inlet tube
1	Screen Assy.	90-86	<b>224-14232</b>	VIN Code "R"; 5/8" inlet tube
1	Screen Assy.	90-82	<b>224-14265</b>	2WD; 3/4" inlet tube
1	Screen Assy.	90-82	<b>224-1348</b>	2WD; 5/8" inlet tube
1	Screen Assy.	85-82	<b>224-14266</b>	VIN Code "B"; 3/4" inlet tube
1	Screen Assy.	85-82	<b>224-14232</b>	VIN Code "B"; 5/8" inlet tube
1	Tool	90-82	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube
<b>B L O C K</b>				
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-87	<b>260-1232</b>	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1144</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1143</b>	w/11mm thick one-piece rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-82	<b>260-1123</b>	w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Exh. pipe packing not incl.; Premium valve stem seals incl.
<b>B L O C K</b>				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-82	<b>381-8046</b>	
1	Steel Block Plug Kit	90-82	<b>381-4012</b>	
<b>K I T S</b>				
YEARS	RE-RING KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-87	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6296</b>	<b>205-1296</b>
90-87	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains	<b>205-6296M</b>	<b>205-1296M</b>

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# GMC Truck (Includes Minivans)

**12** 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1990-82  
 (cont.) L/D Truck VIN Codes "B" 1982-85, "R" 1986-93

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
86	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.	Re-ring w/Mains	205-728AM	205-228AM
86	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-728A	205-228A
85	w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Shallow oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	Re-ring w/Mains	205-6298M	205-1298M
85	w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Shallow oil ring groove set; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-6298	205-1298
85	w/11mm thick rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	Re-ring w/Mains	205-727M	205-227M
85	w/11mm thick rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.	Re-ring w/Mains	205-727AM	205-227AM
85	w/11mm thick rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-727A	205-227A
84-82	Deep oil ring groove set; Exh. pipe packing not incl.; w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	Re-ring w/Mains	205-699M	205-199M
84-82	Deep oil ring groove set; Exh. pipe packing not incl.; w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	205-699	205-199
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	1st design; Exh. pipe packing not incl.; Shallow oil ring groove set; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	505-6011A	505-1011A
90	1st design; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	MKP-6011B MK-6011B	MKP-1011B MK-1011B
90	2nd design; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	MKP-6011C MK-6011C	MKP-1011C MK-1011C
90	2nd design; Exh. pipe packing not incl.; Shallow oil ring groove set; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	----	505-1011C
90-87	1st design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs	BKP-6015	----
90-87	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Block	BK-6016	----

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# GMC Truck (Includes Minivans)

**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore 1990-82 12**  
L/D Truck VIN Codes "B" 1982-85, "R" 1986-93 (cont.)

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
90-87	2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump	Block w/Pump & Freeze Plugs	<b>BKP-6016</b>	----
89-87	Exh. pipe packing not incl.; Shallow oil ring groove set; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-6011A</b>	<b>505-1011A</b>
89-87	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	<b>MKP-6011B</b> <b>MK-6011B</b>	<b>MKP-1011B</b> <b>MK-1011B</b>
86	Exh. pipe packing not incl.; Shallow oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-728E</b>	<b>505-228E</b>
86	Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master Master w/o Pistons	<b>MKP-728L</b> <b>MK-728L</b>	<b>MKP-228L</b> <b>MK-228L</b>
85	w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	----	<b>MK-1033A</b>
85	w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-6033B</b>	----
85	w/11mm thick rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-727H</b>	<b>MK-227H</b>
85	w/11mm thick rear main brg. seal; Casting No. 14072061; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-727K</b>	<b>MK-227K</b>
84-82	Deep oil ring groove set; Exh. pipe packing not incl.; w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-699A</b>	<b>505-199A</b>
84-82	Deep oil ring groove set; Exh. pipe packing not incl.; w/5.5mm thick one-piece rear main brg. seal; Casting No. 14033068; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master Master w/o Pistons	<b>MKP-699D</b> <b>MK-699D</b>	<b>MKP-199D</b> <b>MK-199D</b>

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**3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990 13**  
L/D Truck VIN Code "D" 1990-95

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	3 Piece Set	90	<b>KT3-372S</b>	Incl. chain 9 links wide; Incl. (1) 222-372, (1) 223-619, (1) 223-620
1	Timing Chain	90	<b>222-372</b>	9 links wide; 64 Links
1	Chain Damper	90	<b>222-59CTN</b>	
1	Crank Sprocket	90	<b>223-619</b>	20 Teeth
1	Cam Sprocket	90	<b>223-620</b>	40 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	90	<b>CS-715</b>	
12	Lifter	90	<b>HT-2095</b> Std Only	Hyd.
12	Lifter, Bulk	90	<b>HT-2095B</b> Std Only	Hyd.; Carton of 128

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# GMC Truck (Includes Minivans)

**13** 3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990  
(cont.) L/D Truck VIN Code "D" 1990-95

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	(cont.) Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	<b>CAM KIT</b> Cam/Lifter Kit	90	KC-715	Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B
1	Cam/Lifter/Timing Kit	90	KCT-715A	Hyd.; Incl. chain 9 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-372S, (1) 55-403B
12	<b>PUSH ROD</b> Push Rod	90	RP-3207	DESCRIPTION 6.1630" O.A.L.
12	Push Rod, Bulk	90	BRP-3207	Carton of 100; 6.1630" O.A.L.
12	<b>ROCKER PARTS</b> Arm Assy.	90	R-881	DESCRIPTION Adj.; Use w/MR-1883 stud; Incl. arm, ball & nut
12	Arm Assy., Bulk	90	R-881B	Adj.; Use w/MR-1883 stud; Incl. arm, ball & nut; Carton of 64
12	Arm	90	R-881A	Adj.; Use w/MR-1883 stud
12	Pivot Ball	90	MR-1838	
12	Stud	90	MR-1883	
6	<b>VALVE</b> Exhaust	90	V-2290 Std-15	DESCRIPTION Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L.
6	Exhaust, Bulk	90	V-2290B15 15	Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L.
6	Intake	90	V-2291 Std-15	Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L.
6	Intake, Bulk	90	V-2291B15 15	Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.
12	<b>VALVE GUIDE</b> Guide	90	VG-1377	DESCRIPTION Exh. & Int.; w/Alum. heads; Incl. lock ring; Threaded; .3155" ID, 2.0850" O.A.L.
12	Guide	90	VG-5080	Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.
12	<b>VALVE SPRING</b> Spring	90	VS-798	DESCRIPTION Exh. & Int.; 1.9100" Free Height
12	Spring, Bulk	90	VS-798B	Exh. & Int.; Carton of 250; 1.9100" Free Height
12	<b>VALVE SEAL</b> Valve Stem Seal	90	MV-1233C	DESCRIPTION O-Ring; Rubber
12	Valve Stem Seal Bulk	90	MV-1233	O-Ring; Carton of 100; Rubber
6	<b>VALVE SEAT</b> Exh.	90	245-1500-1N Std Only	DESCRIPTION Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
6	Int.	90	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
24	<b>VALVE, MISC</b> Keeper	90	VK-115	DESCRIPTION 1 groove; Square cut key groove
24	Keeper	90	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	90	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	<b>PISTON</b> Cast Piston	90	H562CP Std-.50-.75-1.00-1.50MM	DESCRIPTION Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .105" deep x 2.913" dia.; DurOshield® skirt coated piston
6	Cast Piston - Individual	90	WH562CP Std-.50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.442" CD, .9055" Pin Dia., Recessed Head .105" deep x 2.913" dia.; DurOshield® skirt coated piston
1	<b>RINGS</b> Premium Set	90	E-605K Std-.50-.75-1.00-1.50MM	DESCRIPTION 2-1.50MM, 1-4.00MM
1	Standard Set	90	E-605X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90	WE-605K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	90	WE-605X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	<b>ENGINE BEARINGS</b> Main Set	90	7244MA.25MM .25-.50-.75MM	DESCRIPTION A-Series aluminum bearings; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	90	7242MA Std-.25-.50-.75-1.00MM	A-Series aluminum bearings; 3/4 grooved
1	Rod Set	90	6-4020A Std-.026-.25-.50-.75-1.00MM	A-Series aluminum bearings
1	Rod Set	90	6-4020A25X2 25X2-50X2-75X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore

(continued on next page)

# GMC Truck (Includes Minivans)

3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990 **13**  
L/D Truck VIN Code "D" 1990-95 (cont.)

	QTY	ENGINE BEARINGS <small>(cont.)</small>	YEARS	PART NO.	DESCRIPTION	
BLOCK	6	Rod Pair	90	<b>4020A</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>	
	6	Rod Pair	90	<b>4020P</b> + Std-.026MM	When depleted use 4020A	
	1	Cam Set	90	<b>1492M</b> Std Only	Full round design	
	1	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	90	<b>224-4148V</b>	1st design; High Volume, check pan for clearance; 5/8" inlet	
	1	Oil Pump	90	<b>224-4148</b>	1st design; 5/8" inlet	
	1	Oil Pump	90	<b>224-4152V</b>	2nd design; 2nd Design; High Volume, check pan for clearance; 3/4" inlet	
	1	Oil Pump	90	<b>224-4152</b>	2nd design; 3/4" inlet	
	1	Pump Repair Kit	90	<b>224-51317</b>	1st design; w/5/8" inlet	
	1	Inter. Shaft	90	<b>224-6148</b>		
1	Oil Pump Shaft Guide	90	<b>224-43351</b>	Nylon		
1	Screen Assy.	90	<b>224-1248</b>	1st design; 5/8" inlet		
1	Screen Assy.	90	<b>224-14271</b>	2nd design; 3/4" inlet		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	90	<b>260-1466</b>	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	90	<b>381-8085</b>		
KITS	<b>RE-RING KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6184</b>	<b>205-1184</b>
	90	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains		<b>205-6184M</b>	<b>205-1184M</b>
	<b>OVERHAUL KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.	Block		<b>BK-6017</b>	----
	90	1st design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump	Block w/Pump & Freeze Plugs		<b>BKP-6017</b>	----
	90	2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump	Block w/Pump & Freeze Plugs		<b>BKP-6018</b>	----
	90	Exh. pipe packing not incl.; Oil pump & freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.; Incl. chain 9 links wide	Master Master w/o Pistons		<b>MKP-6184A</b> <b>MK-6184A</b>	<b>MKP-1184A</b> <b>MK-1184A</b>
	90	Exh. pipe packing not incl.; Oil pump & freeze plugs not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. chain 9 links wide	Master w/o Rods & Mains		<b>505-6184A</b>	<b>505-1184A</b>
	90	2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. chain 9 links wide	Master w/o Pistons		<b>MK-6184B</b>	<b>MK-1184B</b>
	90	2nd design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4" inlet oil pump; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.	Master		<b>MKP-6184B</b>	<b>MKP-1184B</b>
	90	2nd design; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. chain 9 links wide	Master w/o Rods & Mains		<b>505-6184B</b>	<b>505-1184B</b>

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# GMC Truck (Includes Minivans)

**13** 3.1L 189 (3136cc) OHV V6 (Chevrolet), 89mm Bore 1990  
(cont.) L/D Truck VIN Code "D" 1990-95

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.			
	YEARS	DESCRIPTION					
	90	1st design; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 9 links wide			Master w/o Pistons	<b>MK-6379</b>	----
	90	1st design; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump			Master w/o Rods & Mains	<b>505-6379</b>	----
90	1st design; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Incl. chain 9 links wide	Master	<b>MKP-6379</b>	----			

**14** 3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore 1966-63  
L/D Truck

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Gear Set	66-63	<b>221-2525S</b>	Incl. (1) 221-2524, (1) 221-2537
	1	Crank Gear	66-63	<b>221-2537</b>	27 Teeth
	1	Cam Gear	66-63	<b>221-2524</b>	Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	66-63	<b>CS-633</b>	Hyd.	
12	Lifter	66-63	<b>HT-817</b> Std Only	Hyd.; Carton of 128	
12	Lifter, Bulk	66-63	<b>HT-817B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
1	Prelube	66-63	<b>55-400</b>		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	66-63	<b>KC-633</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B	
1	Cam/Lifter/Timing Kit	66-63	<b>KCT-633A</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
12	Push Rod	66-63	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.	
12	Push Rod	66-63	<b>RP-3180</b>	9.6800" O.A.L.	
12	Push Rod, Bulk	66-63	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
12	Arm Assy.	66-63	<b>R-832</b>	Incl. arm, ball & nut	
12	Arm Assy., Bulk	66-63	<b>R-832B</b>	Incl. arm, ball & nut; Carton of 64	
12	Arm	66-63	<b>R-832A</b>		
12	Pivot Ball	66-63	<b>MR-1780</b>		
12	Nut	66-63	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads	
12	Stud	66-63	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"	
12	Stud	66-63	<b>MR-1949</b>	3/8" x 24 x 2.495"	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	66-63	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.	
6	Exhaust	66-63	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
6	Exhaust, Bulk	66-63	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
6	Intake	66-63	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
6	Intake, Bulk	66-63	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring	66-63	<b>VS-653</b>	w/o Rotocaps; 1.9000" Free Height	
12	Spring	66-63	<b>VS-521</b>	W/Rotocaps; Incl. damper; 2.1090" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
12	Valve Stem Seal	66-63	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	66-63	<b>MV-1233C</b>	O-Ring; Rubber	
12	Valve Stem Seal Bulk	66-63	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber	
12	Valve Stem Seal Bulk	66-63	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	66-63	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth	
6	Exh.	66-63	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth	
6	Int.	66-63	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	66-63	<b>VK-115</b>	1 groove; Square cut key groove	
24	Keeper	66-63	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	

(continued on next page)



# GMC Truck (Includes Minivans)

**3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore 1966-63 14**  
L/D Truck (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
24	Keeper, Bulk	66-63	VK-115B	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	66-63	259-203C	.015"; Carton of 100	
12	Spring Insert	66-63	259-203B	.030"; Carton of 100	
12	Spring Insert	66-63	259-203BRS	.030"; Carton of 500	
12	Spring Insert	66-63	259-203A	.060"; Carton of 100	
12	Spring Insert	66-63	259-203ARS	.060"; Carton of 500	
6	Rotacap	66-63	RC-157S		
<b>3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore 1966-63 14</b>					
<b>L/D Truck (cont.)</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Cast Piston	66-63	311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
	6	Cast Piston - Individual	66-63	W311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Standard Set	66-63	E-250X Std-30-40	2-5/64, 1-3/16
	6	Standard Single Cylinder Set	66-63	WE-250X Std Only	2-5/64, 1-3/16
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	66-63	4124MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings
	1	Rod Set	66-63	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
	1	Rod Set	66-63	6-2020CA60 60	Unplated & resizeable
	6	Rod Pair	66-63	2020CP Std-1-2-10-20-30-40-50	
	1	Cam Set	66-63	1203M Std Only	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	66-63	224-4147	
1	Oil Pump	66-63	224-4157	High Volume, check pan for clearance	
1	Screen Assy.	66-65	224-1347		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	66-63	260-1005		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	66-64	381-8006		
<b>3.3L 200 OHV V6 (Chevrolet), 3.5" Bore 1979-78 15</b>					
<b>L/D Truck VIN Code "M" 1978-79</b>					
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	3 Piece Set	79-78	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
	1	3 Piece Set	79-78	KT3-499SA	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
	1	Timing Chain	79-78	222-499	Use w/.405" tooth width sprocket; 46 Links
	1	Crank Sprocket	79-78	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Crank Sprocket	79-78	223-505	Steel; .405" tooth width sprocket; 18 Teeth
	1	Cam Sprocket	79-78	223-390	.405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	79-78	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	79-78	CS-712	
	12	Lifter	79-78	HT-817 Std Only	Hyd.
	12	Lifter, Bulk	79-78	HT-817B Std Only	Hyd.; Carton of 128
	1	Prelube	79-78	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	79-78	KC-712	Hyd.; Incl. (1) CS-712, (12) HT-817, (1) 55-403B
	1	Cam/Lifter/Timing Kit	79-78	KCT-712	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-712, (12) HT-817, (1) KT3-499S, (1) 55-403B
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Push Rod	79-78	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
	12	Push Rod	79-78	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
	12	Push Rod	79-78	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
	12	Push Rod	79-78	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
	12	Push Rod	79-78	RP-3093	7.7940" O.A.L.
	12	Push Rod, Bulk	79-78	BRP-3093	Carton of 100; 7.7940" O.A.L.
	12	Push Rod, Bulk	79-78	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	79-78	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Arm Assy.	79-78	R-826	Incl. arm, ball & nut	
12	Arm Assy., Bulk	79-78	R-826B	Incl. arm, ball & nut; Carton of 64	
12	Arm	79-78	R-826A		
12	Nut	79-78	MR-1751	Self-locking, 3/8" x 24 threads	

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# GMC Truck (Includes Minivans)

## 15 3.3L 200 OHV V6 (Chevrolet), 3.5" Bore 1979-78 (cont.) L/D Truck VIN Code "M" 1978-79

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	79-78	VG-5038	Exh.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	79-78	VG-5038B	Exh.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	79-78	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	79-78	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	79-78	VK-115	1 groove; Square cut key groove
24	Keeper	79-78	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	79-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	Rotocap	79-78	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	79-78	475NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9272" Pin Dia., Recessed Head .142" deep x 2.880" dia. - 8.2:1 C.R.
6	Cast Piston - Individual	79-78	W475NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9272" Pin Dia., Recessed Head .142" deep x 2.880" dia. - 8.2:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-78	E-197K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-78	E-197X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	79-78	WE-197K Std-20-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	79-78	WE-197X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-78	5085M Std-1-10-20-30-40	
1	Main Set	79-78	6687M10 10-20-30	.020" O/S length flange brg.
1	Main Set	79-78	5085MA Std-1-10-20-30-40	A-Series aluminum bearings
1	Rod Set	79-78	6-3750P Std-10-20-30-40	
6	Rod Pair	79-78	3750P Std-1-10-20-30-40	
1	Cam Set	79-78	1463M Std-1	Babbitt material; Full round design
1	Cam Set	79-78	1791M Std Only	O.E. split type design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	79-78	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	79-78	224-4146	5/8" inlet
1	Inter. Shaft	79-78	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	79-78	224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	79-78	224-43343	Nylon
1	Screen Assy.	79-78	224-1246	5/8" inlet tube
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	79-78	381-8049	
1	Steel Block Plug Kit	79-78	381-9676	

## 16 3.5L 216.5 OHV L6 (Chevrolet), 3.5" Bore 1952-38 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	52-38	221-2537	27 Teeth
1	Cam Gear	52-38	221-2514	Alum.; 54 Teeth
1	Cam Gear	52-38	221-2500	Silent type; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	52-38	CS-338	
1	Prelube	52-38	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	52-40	RP-3019	10.4650" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Nut	52-41	MR-1940	7/16-20 thread
6	Adj. Screw	52-41	MR-1939	7/16-20 thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	52-50	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	52-50	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust	49-41	V-957 Std Only	1.4665" Head Dia., .3402" Stem Dia., 4.8760" O.A.L.
6	Exhaust, Bulk	52-50	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	52-41	V-958 Std Only	1.6410" Head Dia., .3412" Stem Dia., 6.2830" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	52-41	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.
6	Guide	52-41	VG-473	Int.; .3435" ID, 3.3400" O.A.L.
6	Guide	40-38	VG-509	Exh.; .3435" ID, 2.1880" O.A.L.
6	Guide	40-38	VG-473	Int.; .3435" ID, 3.3400" O.A.L.

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# GMC Truck (Includes Minivans)

**3.5L 216.5 OHV L6 (Chevrolet), 3.5" Bore 1952-38 16**  
L/D Truck (cont.)

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	52-38	VS-424	2.2500" Free Height
12	Valve Stem Seal	52-38	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	52-38	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	52-38	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	52-38	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
24	Keeper	52-38	VK-115	1 groove; Square cut key groove
24	Keeper	52-38	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	52-38	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	52-38	259-200B	.030"; Carton of 100
12	Spring Insert	52-38	259-200A	.060"; Carton of 100
12	Pin Bushing	52-44	9559X	2 req'd. per rod
12	Pin Bushing	42-40	9559X	2 req'd. per rod
1	Standard Set	52-38	E-103X Std-30	2-1/8, 1-3/16
6	Standard Single Cylinder Set	52-38	WE-103X Std Only	2-1/8, 1-3/16
1	Main Set	52-48	648M Std-10-20-30	Use w/FSM-105S shim set
1	Shim Set	52-48	FSM-105S	
1	Shim Set	52-44	FSM-104S	
1	Shim Set	42-40	FSM-104S	
6	Rod Pair	52-44	1415SB10 10-20	Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
6	Rod Pair	42-40	1415SB10 10-20	Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
1	Cam Set	52-44	1094M Std Only	
1	Cam Set	42-40	1094M Std Only	
1	Oil Pump	52-38	224-4140	

<b>3.7L 228 OHV L6 (GMC), 3.5625" Bore 1959-39 17</b>				
L/D Truck				
1	Cam Gear	54-39	221-2514	Alum.; 54 Teeth
1	Cam Gear	54-39	221-2500	Silent type; 54 Teeth
12	Spring	53-39	VS-424	2.2500" Free Height
12	Valve Stem Seal	53-39	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	53-39	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	53-39	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	53-39	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
24	Keeper	53-39	VK-115	1 groove; Square cut key groove
24	Keeper	53-39	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	53-39	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	Pin Bushing	51-39	9849	Full round design
6	Pin Bushing	51-39	9849V	Split type bushing
1	Standard Set	59-55	677X Std Only	1-3/32, 2-1/8, 1-3/16
1	Standard Set	53-39	677X Std Only	1-3/32, 2-1/8, 1-3/16
1	Main Set	51-39	697M Std-10-20	
6	Rod Pair	51-39	9845CP Std-10-20-30	
1	Cam Set	51-39	1094M Std Only	

# GMC Truck (Includes Minivans)

**18 3.8L 229 OHV V6 (Chevrolet), 3.736" Bore 1984-80**  
**L/D Truck VIN Codes "K" 1980-82, "9" 1983-84**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	84-80	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	84-80	CTS-1000	w/.405" tooth width sprocket
1	Timing Chain	84-80	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	84-80	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	84-80	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	84-80	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	83-80	CS-712	
12	Lifter	84-80	HT-817 Std Only	Hyd.
12	Lifter, Bulk	84-80	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	83-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	83-80	KC-712	Hyd.; Incl. (1) CS-712, (12) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	83-80	KCT-712	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-712, (12) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	81-80	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
12	Push Rod	81-80	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
12	Push Rod	81-80	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
12	Push Rod	81-80	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
12	Push Rod	81-80	RP-3093	7.7940" O.A.L.
12	Push Rod, Bulk	81-80	BRP-3093	Carton of 100; 7.7940" O.A.L.
12	Push Rod, Bulk	81-80	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	81-80	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	81-80	R-826	Incl. arm, ball & nut
12	Arm Assy., Bulk	81-80	R-826B	Incl. arm, ball & nut; Carton of 64
12	Arm	81-80	R-826A	
12	Nut	81-80	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	81-80	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	81-80	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	81-80	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	81-80	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	81-80	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	81-80	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	81-80	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	81-80	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	81-80	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	81-80	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	81-80	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	81-80	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	81-80	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	81-80	VK-115	1 groove; Square cut key groove
24	Keeper	81-80	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	81-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	Rotocap	81-80	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	84-80	698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
6	Cast Piston - Individual	84-80	W698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	84-80	E-414K Std-30-40	2-5/64, 1-3/16
1	Standard Set	84-80	E-414X Std-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	84-80	WE-414K Std-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	84-80	WE-414X Std-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-80	5085M Std-1-10-20-30-40	
1	Main Set	84-80	6687M10 10-20-30	.020" O/S length flange brg.
1	Main Set	84-80	5085MA Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	84-80	6-3750P Std-10-20-30-40	

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# GMC Truck (Includes Minivans)

**3.8L 229 OHV V6 (Chevrolet), 3.736" Bore 1984-80 18**  
**L/D Truck VIN Codes "K" 1980-82, "9" 1983-84 (cont.)**

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION		
	6	Rod Pair	84-80	<b>3750P</b> Std-1-10-20-30-40			
	1	Cam Set	84-80	<b>1463M</b> Std-1	Babbitt material; Full round design		
	1	Cam Set	84-80	<b>1791M</b> Std Only	O.E. split type design		
	QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Oil Pump	84-80	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide		
	1	Oil Pump	84-80	<b>224-4146</b>	5/8" inlet		
	1	Inter. Shaft	84-80	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide		
	1	Inter. Shaft	84-80	<b>224-6146</b>	Use w/nylon shaft guide		
	1	Oil Pump Shaft Guide	84-80	<b>224-43343</b>	Nylon		
	1	Screen Assy.	84-80	<b>224-1246</b>	5/8" inlet tube		
	QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Kit Gasket Set	84-80	<b>260-1101</b>	Premium valve stem seals incl.		
	QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Brass Block Plug Kit	84-80	<b>381-8049</b>			
	1	Steel Block Plug Kit	84-80	<b>381-9676</b>			
		<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	<b>DESCRIPTION</b>					
	84-80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.		Re-ring w/Mains		<b>205-692M</b>	<b>205-192M</b>
	84-80	Premium valve stem seals incl.		Re-ring		<b>205-692</b>	<b>205-192</b>
		<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	<b>DESCRIPTION</b>					
	83-80	Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket		Master Master w/o Pistons		<b>MKP-692A</b> <b>MK-692A</b>	<b>MKP-192A</b> <b>MK-192A</b>
	83-80	Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket		Master w/o Rods & Mains		<b>505-692A</b>	<b>505-192A</b>

**3.8L 230 OHV L6 (Chevrolet), 3.875" Bore 1969-63 19**  
**L/D Truck VIN Code "S" 1968-69**

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
	1	Gear Set	69-63	<b>221-2525S</b>	Incl. (1) 221-2524, (1) 221-2537		
	1	Crank Gear	69-63	<b>221-2537</b>	27 Teeth		
	1	Cam Gear	69-63	<b>221-2524</b>	Alum.; 54 Teeth		
	QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Camshaft	69-63	<b>CS-633</b>	Hyd.		
	12	Lifter	69-63	<b>HT-817</b> Std Only	Hyd.; Carton of 128		
	12	Lifter, Bulk	69-63	<b>HT-817B</b> Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	1	Prelube	69-63	<b>55-400</b>			
	QTY	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Cam/Lifter Kit	69-63	<b>KC-633</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B		
	1	Cam/Lifter/Timing Kit	69-63	<b>KCT-633A</b>	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B		
	QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	12	Push Rod	69-63	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.		
	12	Push Rod	69-63	<b>RP-3180</b>	9.6800" O.A.L.		
	12	Push Rod, Bulk	69-63	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.		
	QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	12	Arm Assy.	69-63	<b>R-832</b>	Incl. arm, ball & nut		
	12	Arm Assy., Bulk	69-63	<b>R-832B</b>	Incl. arm, ball & nut; Carton of 64		
	12	Arm	69-63	<b>R-832A</b>			
	12	Pivot Ball	69-63	<b>MR-1780</b>			
	12	Nut	69-63	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads		
	12	Stud	69-63	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"		
	12	Stud	69-63	<b>MR-1949</b>	3/8" x 24 x 2.495"		
	QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	6	Exhaust	69-63	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.		
	6	Exhaust	69-63	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.		
	6	Exhaust, Bulk	69-63	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.		
	6	Intake	69-63	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.		
	6	Intake, Bulk	69-63	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.		

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# GMC Truck (Includes Minivans)

**19 3.8L 230 OHV L6 (Chevrolet), 3.875" Bore 1969-63**  
 (cont.) L/D Truck VIN Code "S" 1968-69

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide	69-63	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.	
6	Guide, Bulk	69-63	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring	69-65	VS-653	w/o Rotocaps; 1.9000" Free Height	
12	Spring	69-65	VS-521	W/Rotocaps; Incl. damper; 2.1090" Free Height	
12	Spring	64-63	VS-521	Incl. damper; 2.1090" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
12	Valve Stem Seal	69-63	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE	
12	Valve Stem Seal	69-63	MV-1233C	O-Ring; Rubber	
12	Valve Stem Seal Bulk	69-63	MV-1233	O-Ring; Carton of 100; Rubber	
12	Valve Stem Seal Bulk	69-63	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	69-63	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth	
6	Exh.	69-63	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth	
6	Int.	69-63	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	69-63	VK-115	1 groove; Square cut key groove	
24	Keeper	69-63	VK-115R	1 groove; Square cut key groove; Hardened	
24	Keeper, Bulk	69-63	VK-115B	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	69-63	259-203C	.015"; Carton of 100	
12	Spring Insert	69-63	259-203B	.030"; Carton of 100	
12	Spring Insert	69-63	259-203BRS	.030"; Carton of 500	
12	Spring Insert	69-63	259-203A	.060"; Carton of 100	
12	Spring Insert	69-63	259-203ARS	.060"; Carton of 500	
6	Rotocap	69-63	RC-157S	Use w/VS-521	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	69-63	1107P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 1107NP	
6	Cast Piston	69-63	1107NP * Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
6	Pin Bushing	69-63	9849	Full round design	
6	Pin Bushing	69-63	9849V	Split type bushing	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	69-63	E-234K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	69-63	E-234X Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	69-63	WE-234K Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	69-63	WE-234X Std-20-30-40-60	2-5/64, 1-3/16	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	69-63	4124MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	69-63	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable	
1	Rod Set	69-63	6-2020CA60 60	Unplated & resizeable	
6	Rod Pair	69-63	2020CP Std-1-2-10-20-30-40-50		
1	Cam Set	69-64	1203M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	69-63	224-4147		
1	Oil Pump	69-63	224-4157	High Volume, check pan for clearance	
1	Screen Assy.	69-65	224-1347		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	69-63	260-1005		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	69-63	381-8006		
KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION			
	69-63		Re-ring	205-614	205-114
	69-63	Incl. A-Series aluminum bearings	Re-ring w/Mains	205-614M	205-114M
KITS	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION			
	69-64		Master w/o Rods & Mains	505-614D	505-114D
	69-64	Incl. A-Series aluminum bearings	Master Master w/o Pistons	MKP-614D MK-614D	MKP-114D MK-114D

# GMC Truck (Includes Minivans)

**3.8L 231 OHV V6 (Buick), 3.8" Bore 1984-78 20**  
L/D Truck VIN Codes "A" 1978-84, "L" 1992-95, "2" 1979

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	79-78	<b>KT3-359SA1</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-610
1	Timing Chain	79-78	<b>222-359</b>	54 Links
1	Crank Sprocket	79-78	<b>223-323</b>	20 Teeth
1	Cam Sprocket	79-78	<b>223-610</b>	40 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	80-79	<b>CS-702</b>	
12	Lifter	80-78	<b>HT-969</b> Std Only	Hyd.; w/.440" wide oil groove
12	Lifter, Bulk	80-78	<b>HT-969B</b> Std Only	Hyd.; Carton of 128
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	80-79	<b>KC-702</b>	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) 55-403B
1	Cam/Lifter/Timing Kit	79	<b>KCT-702</b>	Hyd.; Incl. (1) CS-702, (12) HT-969, (1) KT3-359SA1, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	80-78	<b>RP-3213R</b>	Chrome-Moly; 8.6900" O.A.L.
12	Push Rod	80-78	<b>RP-3164</b>	8.6930" O.A.L.
12	Push Rod	80-78	<b>RP-316435</b>	8.7280" O.A.L.
12	Push Rod	80-78	<b>RP-316460</b>	8.7530" O.A.L.
12	Push Rod, Bulk	80-78	<b>BRP-3164</b>	Carton of 100; 8.6930" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Arm Assy.	80-78	<b>R-870</b>	L.H.; Incl. arm & retainer; Stamped steel
6	Arm	80-78	<b>R-870W</b>	L.H.; Stamped steel
12	Retainer	80-78	<b>MR-1829</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	80-79	<b>V-4168</b> Std-15	Chrome plated stem; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
6	Exhaust, Bulk	80-79	<b>V-4168B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3408" Stem Dia., 4.7180" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	83-78	<b>VG-5034</b>	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
6	Guide	83-78	<b>VG-5005</b>	Int.; .3430" ID, 2.2500" O.A.L.
6	Guide	83-78	<b>VG-5005H</b>	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	83-78	<b>VG-5005T</b>	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	83-78	<b>VG-5005B</b>	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	83-78	<b>VG-5005TB</b>	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	83-78	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	83-78	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	83-78	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	84-78	<b>450NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.
6	Cast Piston - Individual	84-78	<b>W450NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.
1	Cast Piston Set w/Prem. Rings	84-78	<b>6K450NP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia. - 8.0:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	84-78	<b>E-369K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	84-78	<b>E-369X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	84-78	<b>WE-369K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	84-78	<b>WE-369X</b> Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	84-78	<b>7144MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	84-78	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings;</b> .020" O/S length flange brg.
1	Rod Set	84-78	<b>6-3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> .659" O.A.L.
1	Rod Set	84-78	<b>6-3755A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set	84-78	<b>6-3755AP10X2</b> 10X2-20X2-30X2-40X2	Use in .002" O/S Rod Bore
6	Rod Pair	84-78	<b>3755A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> .659" O.A.L.
1	Cam Set	84	<b>1462M</b> Std Only	VIN Code "A"; w/14 bolt oil pan; Babbitt material
1	Cam Set	83-78	<b>1462M</b> Std Only	Babbitt material
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pump Repair Kit	84-78	<b>224-51382</b>	
1	Pump Repair Kit	84-78	<b>224-518</b>	Gear type
1	Pump Repair Kit	84-78	<b>224-518V</b>	High Volume; Installation may require timing cover removal
1	Pump Repair Kit	84-78	<b>224-518TP</b>	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

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# GMC Truck (Includes Minivans)

**20 3.8L 231 OHV V6 (Buick), 3.8" Bore 1984-78**  
 (cont.) L/D Truck VIN Codes "A" 1978-84, "L" 1992-95, "2" 1979

QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
1	Screen Assy.	84-81	224-128	For 5-1/4" deep oil pan
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	84	260-1149	w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84	260-1138	w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	260-1032	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	83	260-1149	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	82-78	260-1032	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	84	260-4014	w/Alum. manifold
1	Valley Pan Gasket Set	84	260-4006	w/Alum. manifold
1	Valley Pan Gasket Set	83-79	260-4006	w/Cast iron manifold
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	84-78	381-8035	
1	Steel Block Plug Kit	84-78	381-4023	

RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
84	w/14 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-724 205-724M	205-224 205-224M
84	w/20 bolt oil pan; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-725 205-725M	205-225 205-225M
83	1st design; w/.605" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6083 205-6083M	205-1083 205-1083M
83	2nd design; w/.552" valve guide OD; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-724 205-724M	205-224 205-224M
82-78	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6083 205-6083M	205-1083 205-1083M
OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION				
79	Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump incl.	Master w/o Pistons		----	MK-1083A
79	VIN Codes "A" & "2"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; w/.659" O.A.L. brgs.; Premium valve stem seals incl.; Gear type oil pump incl.	Master w/o Pistons		MK-6083A	----
79	VIN Codes "A" & "2"; Int. manifold gskt. not incl.; Exh. pipe packing not incl.; Premium valve stem seals incl.; Gear type oil pump kit incl.	Master w/o Rods & Mains		505-650E	505-150E

**21 3.8L 235 OHV L6 (Chevrolet), 3.5625" Bore 1963-50**  
 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	63-50	221-2537	27 Teeth
1	Cam Gear	63-50	221-2514	Alum.; 54 Teeth
1	Cam Gear	63-50	221-2500	Silent type; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	62-59	CS-251	
1	Camshaft	58-56	CS-293	
1	Camshaft	55-54	CS-251	
1	Camshaft	53-50	CS-338	
1	Prelube	62-50	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

(continued on next page)



# GMC Truck (Includes Minivans)

**3.8L 235 OHV L6 (Chevrolet), 3.5625" Bore 1963-50 21**  
L/D Truck (cont.)

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	62-55	RP-3020	11.4740" O.A.L.
12	Push Rod	54-50	RP-3018	10.8190" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
1	Rocker Shaft	58-50	RS-602	
6	Nut	62-50	MR-1940	7/16-20 thread
6	Adj. Screw	62-50	MR-1939	7/16-20 thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	62-50	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	62-50	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	62-50	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	62-53	V-1076 Std Only	1.8750" Head Dia., .3415" Stem Dia., 6.3910" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	62-50	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.
6	Guide	62-50	VG-473	Int.; .3435" ID, 3.3400" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	62-59	VS-534	2.1600" Free Height
12	Spring	58	VS-424	2.2500" Free Height
12	Spring	57-52	VS-534	2.1600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	62-50	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	62-50	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	62-50	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	62-50	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	62-50	VK-115	1 groove; Square cut key groove
24	Keeper	62-50	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	62-50	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	62-50	259-200B	.030"; Carton of 100
12	Spring Insert	62-50	259-200A	.060"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
12	Pin Bushing	53-50	9559X	2 req'd. per rod
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	62-54	E-237KC Std-20-30-40-60	2-3/32, 1-3/16
1	Standard Set	62-54	E-237X Std-20-30-40-60-80	2-3/32, 1-3/16
1	Standard Set	53-50	E-135X Std-30	1-3/32, 1-1/8, 1-3/16
6	Premium Single Cylinder Set	62-54	WE-237KC Std-20-30-40-60	2-3/32, 1-3/16
6	Standard Single Cylinder Set	62-54	WE-237X Std-30-40-60-80	2-3/32, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	63-56	960M Std-10-20-30-40-50-60	Use w/FSM-124S shim set
1	Main Set	55-54	853M Std-10-20-30-40	Use w/FSM-124S shim set
1	Main Set	53	853M Std-10-20-30-40	w/Powerglide trans.; Use w/FSM-124S shim set
1	Main Set	52-50	648M Std-10-20-30	w/M/T; Use w/FSM-105S shim set
1	Shim Set	63-53	FSM-124S	
1	Shim Set	53-50	FSM-104S	
1	Shim Set	52-50	FSM-105S	
1	Rod Set	63-54	6-1950CP Std-10-20-30-40-50	6-1950CA 60 avail. as unplated & resizeable
1	Rod Set	53	6-1950CP Std-10-20-30-40-50	6-1950CA 60 avail. as unplated & resizeable
1	Rod Set	63-54	6-1950CA60 60	Unplated & resizeable
1	Rod Set	53	6-1950CA60 60	Unplated & resizeable
6	Rod Pair	63-54	1950CP Std-10-20-30-40-50	
6	Rod Pair	53	1950CP Std-10-20-30-40-50	
6	Rod Pair	53-50	1415SB10 10-20	w/M/T; Insert type rod brg. for 18R rod forgings that have been converted from babbitted to insert type; Use w/FSM-104S shim set
1	Cam Set	63-54	1170M Std Only	w/Large dia. brgs.
1	Cam Set	54-50	1094M Std Only	w/small dia. brgs.
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	62-55	224-4141	
1	Oil Pump	54	224-4142	
1	Oil Pump	53	224-4140	w/o Powerglide trans.
1	Oil Pump	53	224-4142	W/Powerglide trans.
1	Oil Pump	52-50	224-4140	w/o Powerglide trans.
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	63-53	260-1569	

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

# GMC Truck (Includes Minivans)

<b>22 3.9L 235.3 (3856cc) OHV Diesel L4 (8 Valve), 102mm Bore (Isuzu Eng.) 1988-87</b> L/D Truck Eng. Code "4BD1-N" 1987-88						
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	88-87	<b>7194M</b> Std-.25-.50MM			
1	Thrust Washer Set	88-87	<b>3952BF</b> Std Only			
2	Rod Set	88-87	<b>2-3950CP</b> Std-.25-.50-.75-1.00MM			
<b>23 3.9L 235.3 (3856cc) OHV Turbo-Diesel L4 (8 Valve), 102mm Bore (Isuzu Eng.) 1990-87</b> L/D Truck Eng. Codes "4BD1-T" 1987-94, "4BD2-TC" 1995-98						
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	90-87	<b>7194M</b> Std-.25-.50MM			
1	Thrust Washer Set	90-87	<b>3952BF</b> Std Only			
2	Rod Set	90-87	<b>2-3950CP</b> Std-.25-.50-.75-1.00MM			
<b>24 3.9L 239 OHV Turbo-Diesel L4, 4.0197" Bore (Cummins Eng.) 1990-89</b> L/D Truck VIN Code "L" 1989-91, "B" Series, 4BT3.9 (4T-390)(Turbo), 4BTA3.9 (4TA-390)(Turbo w/Aftercooler)						
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E  T R A I N</b>
	6	Exhaust	90-89	<b>V-4384</b> Std Only	Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.	
	6	Exhaust	90-89	<b>V-4345</b> Std-15	Use for Int.; Chrome plated stem; 1.5000" Head Dia., .3410" Stem Dia., 4.9230" O.A.L.	
	6	Exhaust, Bulk	90-89	<b>V-4345B15</b> 15	Use for Int.; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3560" Stem Dia., 4.9230" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Guide	90-89	<b>VG-1331</b>	Exh.; .3160" ID, 2.0520" O.A.L.	
	12	Guide	90-89	<b>VG-1325</b>	Exh. & Int.; 7/16" OD; .3162" ID, 2.5000" O.A.L.	
	6	Guide	90-89	<b>VG-1330</b>	Int.; .3160" ID, 2.3970" O.A.L.	
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Valve Stem Seal	90-89	<b>ST-2043</b>	Exh. & Int.; Positive type; Rubber	
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exh.	90-89	<b>245-1750-7</b> Std Only	Universal size for heads w/o O.E. insert; 1.7500" OD, 1.3750" ID, .2188" Depth	
6	Exh.	90-89	<b>245-1722-E1</b> Std Only	1.7220" OD, 1.3570" ID, .2650" Depth		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	90-89	<b>7251M</b> Std-.25-.50MM			
1	Rod Set	90-89	<b>4-4205CP</b> Std-.25MM			
4	Rod Pair	90-89	<b>4205CP</b> Std-.25-.50-.75-1.00MM			
<b>25 4.1L 248 OHV L6 (GMC), 3.7188" Bore 1955-54</b> L/D Truck						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam Gear	55-54	<b>221-2514</b>	Alum.; 54 Teeth		
1	Cam Gear	55-54	<b>221-2500</b>	Silent type; 54 Teeth		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Pin Bushing	55-54	<b>9849V</b>	Split type bushing		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	55-54	<b>697M</b> Std-10-20			
6	Rod Pair	55-54	<b>1905CP</b> Std-10-20			
1	Cam Set	55-54	<b>1094M</b> Std Only			
<b>26 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66</b> L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, "S" 1970-71						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Gear Set	84	<b>221-2528S</b>	H/D; Incl. (1) 221-2526, (1) 221-2527		
1	Gear Set	83-77	<b>221-2540S</b>	L/D; Incl. (1) 221-2526, (1) 221-2541		
1	Gear Set	83-66	<b>221-2528S</b>	H/D; Incl. (1) 221-2526, (1) 221-2527		
1	Gear Set	76	<b>221-2540S</b>	L/D; Incl. (1) 221-2526, (1) 221-2541		
1	Gear Set	76-75	<b>221-2525S</b>	w/o Integral cyl. head; Incl. (1) 221-2524, (1) 221-2537		
1	Gear Set	74-66	<b>221-2525S</b>	Incl. (1) 221-2524, (1) 221-2537		
1	Crank Gear	84	<b>221-2527</b>	H/D; 27 Teeth		
1	Crank Gear	83-81	<b>221-2527</b>	H/D; 27 Teeth		
1	Crank Gear	83-81	<b>221-2541</b>	L/D; 27 Teeth		
1	Crank Gear	80-79	<b>221-2541</b>	L/D; 27 Teeth		
1	Crank Gear	78-77	<b>221-2527</b>	H/D; 27 Teeth		
1	Crank Gear	78-77	<b>221-2541</b>	L/D; 27 Teeth		

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# GMC Truck (Includes Minivans)

**4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66 26**

**L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, (cont.)  
"S" 1970-71**

**VALVE TRAIN**

**VALVE TRAIN**

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	76	221-2527	H/D; 27 Teeth
1	Crank Gear	76	221-2541	L/D; 27 Teeth
1	Crank Gear	76	221-2537	10 Series, 20 Series & 30 Series; w/integral int. manifold; 27 Teeth
1	Crank Gear	75	221-2527	H/D; 27 Teeth
1	Crank Gear	75	221-2537	10 Series, 20 Series & 30 Series; 27 Teeth
1	Crank Gear	74-66	221-2527	H/D; 27 Teeth
1	Crank Gear	74-66	221-2537	10 Series, 20 Series & 30 Series; 27 Teeth
1	Cam Gear	84-79	221-2526	Alum.; 54 Teeth
1	Cam Gear	78-77	221-2526	Alum.; 54 Teeth
1	Cam Gear	76-75	221-2526	Alum.; 54 Teeth
1	Cam Gear	76-75	221-2524	10 Series, 20 Series & 30 Series; Alum.; 54 Teeth
1	Cam Gear	74-73	221-2526	Alum.; 54 Teeth
1	Cam Gear	74-73	221-2524	10 Series, 20 Series & 30 Series; L/D; Alum.; 54 Teeth
1	Cam Gear	72-66	221-2526	Alum.; 54 Teeth
1	Cam Gear	72-66	221-2524	10 Series, 20 Series & 30 Series; w/"14" stamped on gear face; Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	84-83	CS-633	
1	Camshaft	82-81	CS-677	Calif.
1	Camshaft	82-81	CS-633	Exc. Calif.
1	Camshaft	80-79	CS-677	
1	Camshaft	78-75	CS-677	w/o H/D chassis
1	Camshaft	78-75	CS-633	H/D chassis
1	Camshaft	74-66	CS-633	
12	Lifter	84-66	HT-817 Std Only	Hyd.
12	Lifter, Bulk	84-66	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	84-66	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	84-83	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	82-81	KC-677	Calif.; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	82-81	KC-633	Exc. Calif.; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-79	KC-677	Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	78-75	KC-677	w/o H/D chassis; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	78-75	KC-633	w/H/D chassis; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
1	Cam/Lifter Kit	74-66	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	83	KCT-633E	L/D timing set incl.; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-81	KCT-677C	Calif.; L/D timing set incl.; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-81	KCT-633E	Exc. Calif.; L/D timing set incl.; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-79	KCT-677C	L/D timing set incl.; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-77	KCT-677C	w/o H/D chassis; L/D timing set incl.; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-77	KCT-633E	w/H/D chassis; L/D timing set incl.; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-677C	w/o H/D chassis; L/D timing set incl.; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76	KCT-633E	w/H/D chassis; L/D timing set incl.; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2540S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-633A	w/o Integral cyl. head; w/H/D Chassis; Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B
1	Cam/Lifter/Timing Kit	76-75	KCT-677	w/o Integral int. manifold; w/o H/D chassis; Hyd.; Incl. (1) CS-677, (12) HT-817, (1) 221-2525S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-66	KCT-633A	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 221-2525S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	84-66	RP-3214R	Chrome-Moly; 9.6800" O.A.L.
12	Push Rod	84-66	RP-3180	9.6800" O.A.L.
12	Push Rod, Bulk	84-66	BRP-3180	Carton of 100; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	84-79	R-832	Incl. arm, ball & nut
12	Arm Assy.	78-71	R-832	Exc. Sprint; Incl. arm, ball & nut
12	Arm Assy.	78-71	R-826	Sprint; Incl. arm, ball & nut
12	Arm Assy.	70-66	R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk	84-79	R-832B	Incl. arm, ball & nut; Carton of 64

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# GMC Truck (Includes Minivans)

**26 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66**  
 (cont.) L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, "S" 1970-71

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
12	Arm Assy., Bulk	78-71	R-832B	Exc. Sprint; Incl. arm, ball & nut; Carton of 64
12	Arm Assy., Bulk	78-71	R-826B	Sprint; Incl. arm, ball & nut; Carton of 64
12	Arm Assy., Bulk	70-66	R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm	84-79	R-832A	
12	Arm	78-71	R-832A	Exc. Sprint
12	Arm	78-71	R-826A	Sprint
12	Arm	70-66	R-832A	
12	Pivot Ball	84-66	MR-1780	
12	Nut	84-66	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	84-66	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	84-66	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	84-75	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust	74-73	V-1904 Std-3-15-30	Exc. LPG Eng's.; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust	74-73	V-1888X Std-15	LPG Eng's.; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	72-66	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	84-75	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	74-73	V-1904B Std-15	Exc. LPG Eng's.; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	72-66	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Intake	84-75	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake	74-73	V-1927 Std-15	Exc. LPG Eng's.; Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake	74-73	V-1928 Std Only	LPG Eng's.; Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.
6	Intake	72-66	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	84-75	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	74-73	V-1927B Std-15	Exc. LPG Eng's.; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	72-66	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	84-66	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	84-66	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	84-66	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	84-66	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	84-66	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	84-66	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	84-66	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	84-80	VS-521	Incl. damper; 2.1090" Free Height
12	Spring	79-78	VS-653	w/o Integral cyl. head; 1.9000" Free Height
12	Spring	79-78	VS-521	W/Integral cyl. head; Incl. damper; 2.1090" Free Height
12	Spring	77-75	VS-653	Exc. 10 Series, 20 Series, 30 Series, Blazer, Jimmy; Forward control w/uni-body; 2WD; 1.9000" Free Height
12	Spring	77-75	VS-521	10 Series, 20 Series, 30 Series, Blazer & Jimmy; Forward control w/uni-body; 2WD; Incl. damper; 2.1090" Free Height
12	Spring	74-66	VS-653	1.9000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	84-75	ST-2003	Positive type; Installation requires valve guide machining; Rubber
12	Valve Stem Seal	84-75	ST-2092	Positive type; Rubber
12	Valve Stem Seal	74-66	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	84-66	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	84-75	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
12	Valve Stem Seal Bulk	84-66	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	74-66	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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# GMC Truck (Includes Minivans)

**4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66 26**

L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, (cont.)  
"S" 1970-71

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Exh.	84-66	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth	
6	Exh.	84-66	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth	
6	Int.	84-66	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	84-66	<b>VK-115</b>	1 groove; Square cut key groove	
24	Keeper	84-66	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	
24	Keeper, Bulk	84-66	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	84-66	<b>259-203C</b>	.015"; Carton of 100	
12	Spring Insert	84-66	<b>259-203B</b>	.030"; Carton of 100	
12	Spring Insert	84-66	<b>259-203BRS</b>	.030"; Carton of 500	
12	Spring Insert	84-66	<b>259-203A</b>	.060"; Carton of 100	
12	Spring Insert	84-66	<b>259-203ARS</b>	.060"; Carton of 500	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Cast Piston	84-66	<b>403P</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep	
6	Cast Piston	84-66	<b>403CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>	
6	Cast Piston - Individual	84-66	<b>W403P</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep	
6	Cast Piston - Individual	84-66	<b>W403CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>	
6	Pin	84-66	<b>P-2208</b> Std-3-5-0015		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	84-66	<b>E-234K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	84-66	<b>E-234X</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	84-66	<b>WE-234K</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	84-66	<b>WE-234X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	84-66	<b>SL-20Y</b> Std Only	1/8" wall, must be cut to correct length	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	84-66	<b>4124MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	84-66	<b>6-2020CP</b> Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable	
1	Rod Set	84-66	<b>6-2020CA60</b> 60	Unplated & resizeable	
6	Rod Pair	84-66	<b>2020CP</b> Std-1-2-10-20-30-40-50		
1	Cam Set	84-71	<b>1557M</b> Std Only		
1	Cam Set	70-66	<b>1203M</b> Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	84-66	<b>224-4147</b>		
1	Oil Pump	84-66	<b>224-4157</b>	High Volume, check pan for clearance	
1	Screen Assy.	83-66	<b>224-1347</b>		
1	Tool	84-66	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	84-80	<b>260-1129</b>		
1	Kit Gasket Set	79	<b>260-1037</b>		
1	Kit Gasket Set	78-75	<b>260-1019</b>	w/Integral cyl. head	
1	Kit Gasket Set	78-66	<b>260-1005</b>	w/o Integral cyl. head	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	84-66	<b>381-8006</b>		
KITS	RE-RING KIT			<i>PREMIUM</i>	<i>ECONOMY</i>
	YEARS	DESCRIPTION		<i>KIT NO.</i>	<i>KIT NO.</i>
	84-80		Re-ring	<b>205-739</b>	<b>205-239</b>
	84-80	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-739M</b>	<b>205-239M</b>
	79		Re-ring	<b>205-616</b>	<b>205-116</b>
	79	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-616M</b>	<b>205-116M</b>
	78-75	w/Integral cyl. head	Re-ring	<b>205-615</b>	<b>205-115</b>
	78-75	w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-615M</b>	<b>205-115M</b>
78-66	w/o Integral cyl. head	Re-ring	<b>205-614</b>	<b>205-114</b>	
78-66	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-614M</b>	<b>205-114M</b>	

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# GMC Truck (Includes Minivans)

**26** 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66  
 (cont.) L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, "S" 1970-71

YEARS	OVERHAUL KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	84	H/D timing set incl.	Master w/o Rods & Mains	505-739A
84	H/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739A MK-739A	MKP-239A MK-239A
83	H/D timing set incl.	Master w/o Rods & Mains	505-739A	505-239A
83	H/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739A MK-739A	MKP-239A MK-239A
83	L/D timing set incl.	Master w/o Rods & Mains	505-739D	505-239D
83	L/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739D MK-739D	MKP-239D MK-239D
82-81	Exc. Calif.; H/D timing set incl.	Master w/o Rods & Mains	505-739A	505-239A
82-81	Exc. Calif.; H/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739A MK-739A	MKP-239A MK-239A
82-81	Calif.; L/D timing set incl.	Master w/o Rods & Mains	505-739C	505-239C
82-81	Calif.; L/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739C MK-739C	MKP-239C MK-239C
82-81	Exc. Calif.; L/D timing set incl.	Master w/o Rods & Mains	505-739D	505-239D
82-81	Exc. Calif.; L/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739D MK-739D	MKP-239D MK-239D
80	L/D timing set incl.	Master w/o Rods & Mains	505-739C	505-239C
80	L/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-739C MK-739C	MKP-239C MK-239C
79	L/D timing set incl.	Master w/o Rods & Mains	505-616A	505-116A
79	L/D timing set incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-616A MK-616A	MKP-116A MK-116A
78	w/o H/D Chassis; L/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614G	505-114G
78	w/o H/D Chassis; L/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614G MK-614G	MKP-114G MK-114G
78	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head	Master w/o Rods & Mains	505-615A	505-115A
78	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-615A MK-615A	MKP-115A MK-115A
78-77	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614C	505-114C
78-77	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614C MK-614C	MKP-114C MK-114C
78-77	w/H/D Chassis; L/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614F	505-114F
78-77	w/H/D Chassis; L/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614F MK-614F	MKP-114F MK-114F
78-77	w/H/D Chassis; L/D timing set incl.; w/Integral cyl. head	Master w/o Rods & Mains	505-615E	505-115E
78-77	w/H/D Chassis; L/D timing set incl.; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-615E MK-615E	MKP-115E MK-115E
77	w/o H/D Chassis; L/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614G	505-114G
77	w/o H/D Chassis; L/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614G MK-614G	MKP-114G MK-114G
77	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head	Master w/o Rods & Mains	505-615A	505-115A
77	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-615A MK-615A	MKP-115A MK-115A
76	w/H/D Chassis; w/o Integral cyl. head	Master w/o Rods & Mains	505-614A	505-114A
76	w/H/D Chassis; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614A MK-614A	MKP-114A MK-114A
76	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614C	505-114C

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# GMC Truck (Includes Minivans)

**4.1L 250 OHV L6 (Chevrolet), 3.875" Bore 1984-66 26**

L/D Truck VIN Codes "C" 1971-72, "D" 1972-84, "L" 1971-72, "N" 1970-71, "P" 1968-69, "Q" 1972-75, (cont.)  
"S" 1970-71

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>		
	76	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614C MK-614C
	76	w/o H/D Chassis; w/o Integral cyl. head	Master w/o Rods & Mains	505-614E
	76	w/o H/D Chassis; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614E MK-614E
	76	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head	Master w/o Rods & Mains	505-615A
	76	w/o H/D Chassis; L/D timing set incl.; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-615A MK-615A
	76	w/H/D Chassis; L/D timing set incl.; w/Integral cyl. head	Master w/o Rods & Mains	505-615E
	76	w/H/D Chassis; L/D timing set incl.; w/Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-615E MK-615E
	75	w/H/D Chassis; w/o Integral cyl. head	Master w/o Rods & Mains	505-614A
	75	w/H/D Chassis; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614A MK-614A
	75	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614C
	75	w/H/D Chassis; H/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614C MK-614C
	75	w/o H/D Chassis; w/o Integral cyl. head	Master w/o Rods & Mains	505-614E
	75	w/o H/D Chassis; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614E MK-614E
	74-71	w/o Integral cyl. head	Master w/o Rods & Mains	505-614A
	74-71	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614A MK-614A
	74-71	H/D timing set incl.; w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	MKP-614C MK-614C
	74-71	Optional-H/D timing set incl.; w/o Integral cyl. head	Master w/o Rods & Mains	505-614C
	70-66	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master w/o Pistons	MK-614D
	70-66	w/o Integral cyl. head	Master w/o Rods & Mains	505-614H
	70-66	w/o Integral cyl. head; Incl. <b>A-Series aluminum bearings</b>	Master	MKP-614H

**4.3L 261 OHV L6 (Chevrolet), 3.75" Bore 1962-61 27**

L/D Truck

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>V A L V E T R A I N</b>	1	Crank Gear	62-61	221-2537	27 Teeth
	1	Cam Gear	62-61	221-2514	Alum.; 54 Teeth
	1	Cam Gear	62-61	221-2500	Silent type; 54 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	62-61	CS-293	
	1	Prelube	62-61	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Push Rod	62-61	RP-3020	11.4740" O.A.L.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Rocker Shaft	62-61	RS-602	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	62-61	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	62-61	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
6	Exhaust, Bulk	62-61	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
6	Intake	62-61	V-1076 Std Only	1.8750" Head Dia., .3415" Stem Dia., 6.3910" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Guide	62-61	VG-350	Exh.; .3435" ID, 2.4400" O.A.L.	
6	Guide	62-61	VG-473	Int.; .3435" ID, 3.3400" O.A.L.	

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# GMC Truck (Includes Minivans)

## 27 4.3L 261 OHV L6 (Chevrolet), 3.75" Bore 1962-61

(cont.) L/D Truck

	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
<b>VALVE TRAIN</b>	12	Spring	62-61	VS-424	2.2500" Free Height
	12	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
		Valve Stem Seal	62-61	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal	62-61	MV-1233C	O-Ring; Rubber
	12	Valve Stem Seal Bulk	62-61	MV-1233	O-Ring; Carton of 100; Rubber
	12	Valve Stem Seal Bulk	62-61	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>VALVE TRAIN</b>	6	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
		Exh.	62-61	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
	6	Exh.	62-61	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
	24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	Keeper	62-61	VK-115	1 groove; Square cut key groove	
	Keeper	62-61	VK-115R	1 groove; Square cut key groove; Hardened	
	Keeper, Bulk	62-61	VK-115B	1 groove; Square cut key groove; Carton of 1000	
	Spring Insert	62-61	259-100B	.030"; Carton of 100	
	Spring Insert	62-61	259-100A	.060"; Carton of 100	
<b>BLOCK</b>	6	PISTON	YEARS	PART NO.	DESCRIPTION
		Cast Piston	62-61	92P Std-30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 2.030" CD, .9272" Pin Dia., Flat Head - 7.8:1 C.R.
	6	Cast Piston - Individual	62-61	W92P Std-30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 2.030" CD, .9272" Pin Dia., Flat Head - 7.8:1 C.R.
	1	RINGS	YEARS	PART NO.	DESCRIPTION
		Standard Set	62-61	5412X Std-30	2-3/32, 1-3/16
	1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
		Main Set	62-61	960M Std-10-20-30-40-50-60	Use w/FSM-124S shim set
	1	Rod Set	62-61	6-1950CP Std-10-20-30-40-50	6-1950CA 60 avail. as unplated & resizeable
	1	Rod Set	62-61	6-1950CA60 60	Unplated & resizeable
	6	Rod Pair	62-61	1950CP Std-10-20-30-40-50	
1	Cam Set	62-61	1170M Std Only	w/Large dia. brgs.	
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	Oil Pump	62-61	224-4141		

## 28 4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85

L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & 2002-2008 (Vortec), "Z" 1985-96

<b>VALVE TRAIN</b>	1	TIMING	YEARS	PART NO.	DESCRIPTION
		3 Piece Set	90-87	KT3-499SA6	VIN Codes "B" & "Z"; w/o Balance shaft; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-505, (1) 223-732T
	1	3 Piece Set	86-85	KT3-499SA	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
	1	Timing Chain	90-85	222-499	Use w/.405" tooth width sprocket; 46 Links
	1	Crank Sprocket	90-87	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Crank Sprocket	90-85	223-505	Steel; .405" tooth width sprocket; 18 Teeth
	1	Cam Sprocket	90-87	223-732T	Hardened; .405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	86-85	223-390	.405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket	86-85	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
	1	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	Camshaft	90-87	CS-783	VIN Code "Z"	
	Camshaft	86-85	CS-756		
	Lifter	90-85	HT-2148 Std Only	Hyd. rlr.	
	Lifter	86-85	HT-817 Std Only	Hyd.	
	Lifter, Bulk	90-85	HT-2148B Std Only	Hyd. rlr.; Carton of 128	
	Lifter, Bulk	86-85	HT-817B Std Only	Hyd.; Carton of 128	
	Prelube	90-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
1	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	Cam/Lifter Kit	90-87	KC-783	VIN Code "Z"; Hyd. rlr.; Incl. (1) CS-783, (12) HT-2148, (1) 55-403B	
1	Cam/Lifter Kit	86-85	KC-756	Hyd.; Incl. (1) CS-756, (12) HT-817, (1) 55-403B	
12	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	Push Rod	90-87	RP-3262	7.1920" O.A.L.	
	Push Rod	86-85	RP-3212R	Chrome-Moly; 7.7900" O.A.L.	
	Push Rod	86-85	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.	
	Push Rod	86-85	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.	
	Push Rod	86-85	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.	
	Push Rod	86-85	RP-3093	7.7940" O.A.L.	
	Push Rod, Bulk	90-87	BRP-3262	Carton of 100; 7.1920" O.A.L.	

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# GMC Truck (Includes Minivans)

**4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85 28**

L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & (cont.)  
2002-2008 (Vortec), "Z" 1985-96

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
12	Push Rod, Bulk	86-85	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
12	Push Rod, Bulk	86-85	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
12	Push Rod, Bulk	86-85	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-87	<b>R-973</b>	Adj.; w/standard threads; Incl. arm, ball & nut
12	Arm Assy.	86-85	<b>R-826</b>	Incl. arm, ball & nut
12	Arm Assy., Bulk	90-87	<b>R-973B</b>	Adj.; w/standard threads; Incl. arm, ball & nut; Carton of 64
12	Arm Assy., Bulk	86-85	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
12	Arm	90-87	<b>R-973A</b>	Adj.; w/standard threads
12	Arm	86-85	<b>R-826A</b>	
12	Pivot Ball	90-85	<b>MR-1783</b>	Adj.; w/standard threads
12	Pivot Ball	90-85	<b>MR-1822</b>	H/D 4 groove ball
12	Nut	90-85	<b>MR-1751</b>	Adj.; w/std. threads; Self-locking, 3/8" x 24 threads
12	Stud	90-89	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	90-89	<b>MR-1949</b>	3/8" x 24 x 2.495"
12	Stud	88-85	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	88-85	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-85	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust	90-85	<b>V-1988X</b> Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
6	Exhaust, Bulk	90-85	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	90-85	<b>V-1988XB</b> Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
6	Intake	90-85	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
6	Intake, Bulk	90-85	<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-85	<b>VG-5005</b>	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	90-85	<b>VG-5005H</b>	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	90-85	<b>VG-5005T</b>	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	90-85	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	90-85	<b>VG-5005B</b>	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-85	<b>VG-5005TB</b>	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	90-85	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-85	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
12	Spring, Bulk	90-85	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-85	<b>MV-1888C</b>	Positive type; Viton®
12	Valve Stem Seal	90-85	<b>MV-1921</b>	Umbrella type; Nylon
12	Valve Stem Seal	90-85	<b>MV-1233C</b>	Exh. & Int.; O-Ring; Rubber
12	Valve Stem Seal Bulk	90-85	<b>MV-1888</b>	Positive type; Carton of 50; Viton®
12	Valve Stem Seal Bulk	90-85	<b>MV-1921B</b>	Umbrella type; Carton of 100; Nylon
12	Valve Stem Seal Bulk	90-85	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-85	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.	90-85	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.	90-85	<b>245-2125-1</b> Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-85	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	90-85	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	90-85	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
6	Rotocap	90-85	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	<b>H695P</b> Std-20-30-40-60	Exc. NA4 Emis.; Under 8500 GVW; Use w/E-229K or E-229X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .030" deep x 3.100" dia. w/2 valve reliefs, w/deep oil ring groove
6	Cast Piston	90	<b>H728P</b> Std-20-30-40-60	Exc. NA4 Emis.; Under 8500 GVW; Use w/E-459K or E-459X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .030" deep x 3.100" dia. w/2 valve reliefs, w/shallow oil ring groove

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

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# GMC Truck (Includes Minivans)

**28** 4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85  
 (cont.) L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & 2002-2008 (Vortec), "Z" 1985-96

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	<b>H695CP30</b> 30	Exc. NA4 Emis.; Under 8500 GVW; Use w/E-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .030" deep x 3.100" dia. w/2 valve reliefs, w/deep oil ring groove; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	90	<b>H645NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/E-229K or E-229X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston	90	<b>645P</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
6	Cast Piston	90	<b>640P</b> Std-20-30-40-60-80	Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston	89-85	<b>H645NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/E-229K or E-229X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston	89-85	<b>645P</b> Std-20-30-40-60	Perf. or reg. duty operation; Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
6	Cast Piston	89-85	<b>640P</b> Std-20-30-40-60-80	Use w/E-229K or E-229X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	90	<b>WH695P</b> Std-20-30-40-60	Exc. NA4 Emis.; Under 8500 GVW; Use w/WE-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .030" deep x 3.100" dia. w/2 valve reliefs, w/deep oil ring groove
6	Cast Piston - Individual	90	<b>WH728P</b> Std-20-30-40-60	Exc. NA4 Emis.; Under 8500 GVW; Use w/WE-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .030" deep x 3.100" dia. w/2 valve reliefs, w/shallow oil ring groove
6	Cast Piston - Individual	90	<b>WH645NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/WE-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	90	<b>W645P</b> Std-30-40-60	Perf. or reg. duty operation; Use w/WE-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
6	Cast Piston - Individual	90	<b>W640P</b> Std-20-30-40-60	Use w/WE-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	89-85	<b>WH645NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use w/WE-459K ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. Use in sets only. <b>DurOshield® skirt coated piston.</b>
6	Cast Piston - Individual	89-85	<b>W645P</b> Std-30-40-60	Perf. or reg. duty operation; Use w/WE-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
6	Cast Piston - Individual	89-85	<b>W640P</b> Std-20-30-40-60	Use w/WE-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Prem. Rings	90	<b>6K640P30</b> 30-40-60	Use w/E-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Prem. Rings	89-85	<b>6K640P30</b> 30-40-60	Use w/E-459K ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	90	<b>6X640P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	89-85	<b>6X640P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	<b>E-229K</b> Std-20-30-40-60	Use w/640P, 645P, H645NCP or H695P piston; 2-5/64, 1-3/16
1	Premium Set	90	<b>E-459K</b> Std-20-30-40-60	VIN Code "Z"; .190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
1	Premium Set	90-85	<b>E-628K</b> Std-20-30-40	.155" shallow oil ring groove; 2-5/64, 1-3/16

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# GMC Truck (Includes Minivans)

**4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85 28**

**L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & (cont.)  
2002-2008 (Vortec), "Z" 1985-96**

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-85	<b>E-459K</b> Std-20-30-40-60	.190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
1	Standard Set	90	<b>E-229X</b> Std-20-30-40-60	Use w/640P, 645P, H645NCP or H695P piston; 2-5/64, 1-3/16
1	Standard Set	90	<b>E-459X</b> Std-20-30-40-60	VIN Code "B" & "Z"; .190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
1	Standard Set	89-85	<b>E-459X</b> Std-20-30-40-60	.190" deep oil ring groove; Use w/H728P piston; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	90	<b>WE-459K</b> Std-20-30-40-60	VIN Code "B"; .190" deep oil ring groove; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-85	<b>WE-628K</b> Std Only	.155" shallow oil ring groove; 2-5/64, 1-3/16
6	Premium Single Cylinder Set	89-85	<b>WE-459K</b> Std-20-30-40-60	.190" deep oil ring groove; 2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	<b>5085M</b> Std-1-10-20-30-40	.020" O/S length flange brg.
1	Main Set	90-85	<b>6687M10</b> 10-20-30	
1	Main Set	90-85	<b>5085MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	90-85	<b>7380MA10X20</b> 10X20	<b>A-Series aluminum bearings</b> ; Use in .020" O/S Bore
1	Rod Set	90-85	<b>6-1020CP</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set	90-85	<b>6-1020A</b> Std-.026-.25-.50-.75-1.00MM	
1	Rod Set	90-85	<b>6-1020A25X2</b> 25X2-50X2-75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
6	Rod Pair	90-85	<b>1020CP</b> Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
6	Rod Pair	90-85	<b>1020A</b> Std-.026-.25-.50-.75-1.00MM	
1	Cam Set	90-85	<b>1463M</b> Std-1	Exc. Eng. w/"T" before the I.D. No. located on front of block; Babbitt material; Full round design
1	Cam Set	90-85	<b>1791M</b> Std Only	Exc. Eng. w/"T" before the I.D. No. located on front of block; O.E. split type design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	<b>224-43469V</b>	High Volume, check pan for clearance; 3/4" inlet; Use w/steel guide
1	Oil Pump	90	<b>224-43469</b>	3/4" inlet; w/nylon shaft guide
1	Oil Pump	90-85	<b>224-4146A</b>	High Pressure; 5/8" inlet
1	Oil Pump	90-85	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	90-85	<b>224-4146</b>	5/8" inlet
1	Inter. Shaft	90-85	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	90-85	<b>224-6146</b>	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	90-85	<b>224-43343</b>	Nylon
1	Screen Assy.	90	<b>224-14259</b>	4WD; VIN Codes "W" & "Z"; 5/8" inlet tube
1	Screen Assy.	90-89	<b>224-1346</b>	Exc. S10, Astro & Safari; 5/8" inlet tube
1	Screen Assy.	90-88	<b>224-14262</b>	2WD; S10 & S15; 5/8" inlet tube
1	Screen Assy.	88-85	<b>224-1346</b>	Exc. S10, Astro & Safari; 5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	<b>260-1240</b>	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89-87	<b>260-1240</b>	VIN Code "Z"; w/o Balance shaft; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1240</b>	Astro & Safari; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1241</b>	Exc. Astro & Safari; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	<b>260-1239</b>	Exc. pipe packing not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-86	<b>381-8058</b>	
1	Brass Block Plug Kit	85	<b>381-8049</b>	
1	Steel Block Plug Kit	85	<b>381-9676</b>	

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# GMC Truck (Includes Minivans)

**28** 4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85  
 (cont.) L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & 2002-2008 (Vortec), "Z" 1985-96

RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6020 205-6020M	205-1020 205-1020M
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; w/.155" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6403 205-6403M	----- -----
89-87	VIN Code "Z"; w/o Balance shaft; Exh. pipe packing not incl.; w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6020 205-6020M	205-1020 205-1020M
89-87	VIN Code "Z"; w/o Balance shaft; Exh. pipe packing not incl.; w/.155" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6403 205-6403M	----- -----
86	Astro & Safari; Exh. pipe packing not incl.; w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6020 205-6020M	205-1020 205-1020M
86	Exc. Astro & Safari; Exh. pipe packing not incl.; w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6021 205-6021M	205-1021 205-1021M
86	Astro & Safari; Exh. pipe packing not incl.; w/.155" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6403 205-6403M	----- -----
85	Exh. pipe packing not incl.; w/.190" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6019 205-6019M	205-1019 205-1019M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 645P piston	Block w/Pump & Freeze Plugs	BKP-6050	-----
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 645P piston	Block	BK-6050	-----
90	VIN Code "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exc. NA4 Emis.; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. H728P piston	Block w/Pump & Freeze Plugs	BKP-6051	-----
90	VIN Code "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exc. NA4 Emis.; Under 8500 GVW; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. H728P piston	Block	BK-6051	-----

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# GMC Truck (Includes Minivans)

**4.3L 262 OHV V6 (Chevrolet), 4" Bore 1990-85 28**

L/D Truck VIN Codes "B" 1990-91 (H.O.), "N" 1985-86, "W" 1992-2003 (Vortec H.O.), "X" 1996-99 & (cont.)  
2002-2008 (Vortec), "Z" 1985-96

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exc. NA4 Emis.; Under 8500 GVW; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. H695P piston	Block w/Pump & Freeze Plugs	<b>BKP-6053</b>	----
90	VIN Codes "B" & "Z"; w/o Balance shaft; Exh. pipe packing not incl.; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exc. NA4 Emis.; Under 8500 GVW; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. H695P piston	Block	<b>BK-6053</b>	----
90	VIN Code "Z"; w/o Balance shaft; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exh. pipe packing not incl.; Perf. or reg. duty operation; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-7012</b> <b>MK-7012</b>	<b>MKP-2012</b> <b>MK-2012</b>
90	VIN Code "Z"; w/o Balance shaft; Exc. Eng. w/"T" before the I.D. No. located on front of block; Exh. pipe packing not incl.; Perf. or reg. duty operation; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-7012</b>	<b>505-2012</b>
90-87	VIN Code "Z"; Exc. Eng. w/"T" before the I.D. No. located on front of block; .155" shallow oil ring groove; w/o Balance shaft; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. High Pressure, 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-7014</b>	----

**4.3L 265 OHV V8 (Chevrolet), 3.75" Bore 1957-55 29**  
L/D Truck

	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	3 Piece Set	57-55	<b>KT3-489S</b>	Incl. (1) 222-489, (1) 223-261, (1) 223-262
	1	Timing Chain	57-55	<b>222-489</b>	46 Links
	1	Crank Sprocket	57-55	<b>223-262</b>	18 Teeth
	1	Cam Sprocket	57-55	<b>223-261</b>	36 Teeth
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	57-55	<b>CS-273</b>	Use w/Hyd. lifters
	16	Lifter	57-55	<b>HT-817</b> Std Only	Hyd.
	16	Lifter, Bulk	57-55	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
	1	Prelube	57-55	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	57-55	<b>KC-273</b>	Hyd.; Incl. (1) CS-273, (16) HT-817, (1) 55-403B
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Push Rod	57-55	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
	16	Push Rod	57-55	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
	16	Push Rod	57-55	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
	16	Push Rod	57-55	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
	16	Push Rod	57-55	<b>RP-3093</b>	7.7940" O.A.L.
	16	Push Rod, Bulk	57-55	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
	16	Push Rod, Bulk	57-55	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
	16	Push Rod, Bulk	57-55	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Arm Assy.	57-55	<b>R-826</b>	Incl. arm, ball & nut
	16	Arm Assy., Bulk	57-55	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
	16	Arm	57-55	<b>R-826A</b>	
	16	Nut	57-55	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
	16	Stud	57-55	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
	16	Stud	57-55	<b>MR-1949</b>	3/8" x 24 x 2.495"
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Exhaust	57-55	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.

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# GMC Truck (Includes Minivans)

## 29 4.3L 265 OHV V8 (Chevrolet), 3.75" Bore 1957-55 (cont.) L/D Truck

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	57-55	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	57-55	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	57-55	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	57-55	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	57-55	VS-521	Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	57-55	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	57-55	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	57-55	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	57-55	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	57-55	VK-115	1 groove; Square cut key groove
32	Keeper	57-55	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	57-55	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	57-55	259-201B	.030"; Carton of 100
16	Spring Insert	57-55	259-201A	.060"; Carton of 100
16	Spring Insert	57-55	259-201ARS	.060"; Carton of 500
8	Rotocap	57-55	RC-157S	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	57-55	E-240K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	57-55	E-240X Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	57-55	WE-240K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	57-55	WE-240X Std-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	57-55	994M Std-1-10-20-30-40	
1	Rod Set	57-55	8-2020CP Std-1-10-20-30-40	
8	Rod Pair	57-55	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	57-55	1145M Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	57-55	224-43363	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	57	260-1000	Rear main brg. seal not incl.
2	Head Bolt Set	57-55	260-2500	

## 30 4.4L 267 OHV V8 (Chevrolet), 3.5" Bore 1982-79 L/D Truck VIN Code "J" 1979-82

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	82-79	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	82-79	CTS-1000	w/.405" tooth width sprocket
1	Timing Chain	82-79	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	82-79	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	82-79	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	82-79	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-80	CS-711	
1	Camshaft	79	CS-673	
16	Lifter	82-79	HT-817 Std Only	Hyd.
16	Lifter, Bulk	82-79	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	82-79	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	82-80	KC-711	Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	79	KC-673	Hyd.; Incl. (1) CS-673, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	82-80	KCT-711	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79	KCT-673	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-673, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-79	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	82-79	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	82-79	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	82-79	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.

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# GMC Truck (Includes Minivans)

**4.4L 267 OHV V8 (Chevrolet), 3.5" Bore 1982-79 30**  
**L/D Truck VIN Code "J" 1979-82 (cont.)**

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod	82-79	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	82-79	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	82-79	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	82-79	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	82-79	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	82-79	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	82-79	<b>R-826A</b>	
16	Pivot Ball	82-79	<b>MR-1783</b>	
16	Pivot Ball	82-79	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	82-79	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	82-79	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	82-79	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	82-79	<b>VG-5005</b>	Exh.; .3430" ID, 2.2500" O.A.L.
8	Guide	82-79	<b>VG-5005H</b>	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	82-79	<b>VG-5005T</b>	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide	82-79	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	82-79	<b>VG-5005B</b>	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	82-79	<b>VG-5005TB</b>	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	82-79	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	82-79	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	82-79	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	82-79	<b>245-1437-2</b> Std Only	1.4425" OD, 1.2190" ID, .2160" Depth
8	Int.	82-79	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	82-79	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	82-79	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	82-79	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
8	Rotocap	82-79	<b>RC-157S</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	82-79	<b>E-236K</b> Std-30	2-5/64, 1-3/16
1	Standard Set	82-79	<b>E-236X</b> Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	82-79	<b>WE-236K</b> Std-30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	82-79	<b>WE-236X</b> Std-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	82-79	<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set	82-79	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	82-79	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	82-79	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Rod Set	82-79	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	82-79	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	82-79	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	82-79	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	82-79	<b>8-2555CA60</b> 60	Unplated & resizeable
8	Rod Pair	82-79	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	82-79	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	82-79	<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set	82-79	<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set	82-79	<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set	82-79	<b>1750M</b> Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	82-79	<b>224-4146A</b>	High Pressure; 5/8" inlet
1	Oil Pump	82-79	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	82-79	<b>224-4146</b>	5/8" inlet
1	Inter. Shaft	82-79	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	82-79	<b>224-6146</b>	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	82-79	<b>224-43343</b>	Nylon
1	Screen Assy.	82-79	<b>224-1246</b>	5/8" inlet tube

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# GMC Truck (Includes Minivans)

## 30 4.4L 267 OHV V8 (Chevrolet), 3.5" Bore 1982-79 (cont.) L/D Truck VIN Code "J" 1979-82

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
2	Head Bolt Set	82-79	260-2500	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	82-79	381-8007	
1	Steel Block Plug Kit	82-79	381-4011	

## 31 4.4L 270 OHV L6 (GMC), 3.7813" Bore 1962-56 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Cam Gear	62-56	221-2514	Alum.; 54 Teeth
1	Cam Gear	62-56	221-2500	Silent type; 54 Teeth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	62-56	VG-509	.3435" ID, 2.1880" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	62-56	VS-424	2.2500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	62-56	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	62-56	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	62-56	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	62-56	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	62-56	VK-115	w/o Rototype valve; 1 groove; Square cut key groove
24	Keeper	62-56	VK-115R	w/o Rototype valve; 1 groove; Square cut key groove; Hardened
24	Keeper	62-56	VK-261	W/Rototype
24	Keeper, Bulk	62-56	VK-115B	w/o Rototype valve; 1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	62-56	259-203C	.015"; Carton of 100
12	Spring Insert	62-56	259-203B	.030"; Carton of 100
12	Spring Insert	62-56	259-203BRS	.030"; Carton of 500
12	Spring Insert	62-56	259-203A	.060"; Carton of 100
12	Spring Insert	62-56	259-203ARS	.060"; Carton of 500
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	62-60	697M Std-10-20	
6	Rod Pair	62-60	1905CP Std-10-20	
1	Cam Set	62-60	1094M Std Only	

## 32 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	67	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	66-57	KT3-489S	Incl. (1) 222-489, (1) 223-261, (1) 223-262
1	3 Piece Set	66-57	KT3-163S	Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	Timing Set w/Gaskets	67-57	CTS-1100R	
1	Timing Set w/Gaskets	66-57	CTS-1002	Incl. double rlr. type chain
1	Timing Chain	67	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Timing Chain	66-57	222-163	Double rlr.; 58 Links
1	Timing Chain	66-57	222-489	46 Links
1	Crank Sprocket	67	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	66-57	223-289	Double row; 22 Teeth
1	Crank Sprocket	66-57	223-262	18 Teeth
1	Cam Sprocket	67	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	67	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	66-57	223-288	Double row; 44 Teeth
1	Cam Sprocket	66-57	223-261	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	67-63	CS-274	
1	Camshaft	62-57	CS-273	Use w/Hyd. lifters
1	Performance Cam	67-57	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	67-57	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees

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# GMC Truck (Includes Minivans)

**4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57 32**  
**L/D Truck (cont.)**

	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
<b>QTY</b>	(cont.)			
1	Performance Cam	67-57	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	67-57	<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk	67-57	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube	67-57	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	67-63	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	67-57	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	67-57	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	67-57	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	62-57	<b>KC-273</b>	Hyd.; Incl. (1) CS-273, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	67	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	67-57	<b>KCT-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-63	<b>KCT-274A</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-63	<b>KCT-274C</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	67-57	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	67-57	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	67-57	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	67-57	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	67-57	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	67-57	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	67-57	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	67-57	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	67-57	<b>R-826A</b>	
16	Pivot Ball	67-57	<b>MR-1783</b>	
16	Pivot Ball	67-57	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	67-57	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	67-57	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	67-57	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	67-57	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	67-57	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	67-57	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	67-57	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	67-57	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	67	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
16	Spring	67	<b>VS-739R</b>	Optional-H/D; 2.0000" Free Height
16	Spring	66-57	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
16	Spring, Bulk	67	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	67	<b>VS-739RB</b>	Optional-H/D; Carton of 300; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	67-57	<b>MV-1903</b>	Exh. & Int.; Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	67-57	<b>ST-2001</b>	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# GMC Truck (Includes Minivans)

**32** 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57  
(cont.) L/D Truck

VALVE TRAIN	QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Valve Stem Seal	58-57	<b>MV-1711</b>	Int.; O.E. design; Positive type; Carton of 100; Rubber	
	16	Valve Stem Seal	67-59	<b>MV-1233C</b>	Exh. & Int.; O-Ring; Rubber	
	8	Valve Stem Seal	58-57	<b>MV-1233C</b>	Exh.; O-Ring; Rubber	
	16	Valve Stem Seal Bulk	67-59	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber	
	16	Valve Stem Seal Bulk	67-57	<b>ST-2001BC</b>	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	8	Valve Stem Seal Bulk	58-57	<b>MV-1233</b>	Exh.; O-Ring; Carton of 100; Rubber	
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Exh.	67-57	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth	
	8	Exh.	67-57	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth	
	8	Int.	67-57	<b>245-1812-3</b> Std Only	1.8175" OD, 1.5000" ID, .2160" Depth	
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	32	Keeper	67-57	<b>VK-115</b>	1 groove; Square cut key groove	
	32	Keeper	67-57	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened	
	32	Keeper, Bulk	67-57	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
	16	Spring Insert	67-57	<b>259-203C</b>	.015"; Carton of 100	
	16	Spring Insert	67-57	<b>259-203B</b>	.030"; Carton of 100	
	16	Spring Insert	67-57	<b>259-203BRS</b>	.030"; Carton of 500	
	16	Spring Insert	67-57	<b>259-203A</b>	.060"; Carton of 100	
	16	Spring Insert	67-57	<b>259-203ARS</b>	.060"; Carton of 500	
	8	Rotocap	66-57	<b>RC-157S</b>		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	8	Cast Piston	67-57	<b>235P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 235NP	
	8	Cast Piston	67-57	<b>235NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
	8	Cast Piston - Individual	67-57	<b>W235P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W235NP	
	8	Cast Piston - Individual	67-57	<b>W235NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
	8	Powerforged	67-63	<b>L-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
	8	Powerforged	60-58	<b>L-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
	8	Forged Piston - Individual	67-63	<b>WL-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
	8	Forged Piston - Individual	60-58	<b>WL-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	67-57	<b>E-245K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	67-57	<b>E-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set	67-57	<b>WE-245K</b> Std-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set	67-57	<b>WE-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Main Set	67-57	<b>994M</b> Std-1-10-20-30-40		
	1	Rod Set	67-57	<b>8-2020CP</b> Std-1-10-20-30-40		
	8	Rod Pair	67-57	<b>2020CP</b> Std-1-2-10-20-30-40-50		
	1	Cam Set	67-64	<b>1235M</b> Std-1-10	Babbitt material; Full round design	
	1	Cam Set	67-64	<b>1749M</b> Std Only	Bi-Metal Aluminum	
	1	Cam Set	67-64	<b>1750M</b> Std Only	2.030" housing bore	
	1	Cam Set	63-57	<b>1145M</b> Std Only	Babbitt material; Full round design	
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Oil Pump	67-57	<b>224-4146A</b>	High Pressure; 5/8" inlet	
	1	Oil Pump	67-57	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
	1	Oil Pump	67-57	<b>224-4146</b>	5/8" inlet	
	1	Inter. Shaft	67-57	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide	
	1	Inter. Shaft	67-57	<b>224-6146</b>	Use w/nylon shaft guide	
	1	Oil Pump Shaft Guide	67-57	<b>224-43343</b>	Nylon	
	1	Screen Assy.	67-65	<b>224-1246</b>	5/8" inlet tube	
	1	Screen Assy.	64-57	<b>224-1146</b>	5/8" inlet	

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# GMC Truck (Includes Minivans)

**4.6L 283 OHV V8 (Chevrolet), 3.875" Bore 1967-57 32**  
L/D Truck (cont.)

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	67-59	<b>260-1000</b>	Rear main brg. seal not incl.
1	Kit Gasket Set	58-57	<b>260-1000</b>	
2	Head Bolt Set	67-57	<b>260-2500</b>	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	67-57	<b>381-8007</b>	
1	Steel Block Plug Kit	67-57	<b>381-4011</b>	

RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		
67-59		205-619	205-119
	Re-ring	205-619M	205-119M
	Re-ring w/Mains		
58-57	Rear main brg. seal not incl.	205-619	205-119
	Re-ring	205-619M	205-119M
	Re-ring w/Mains		

OVERHAUL KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		
67	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	MKP-619F	MKP-119F
	Master	MK-619F	MK-119F
	Master w/o Pistons	505-619F	505-119F
	Master w/o Rods & Mains		
66-64	Incl. 5/8" inlet oil pump	MKP-619D	MKP-119D
	Master	MK-619D	MK-119D
	Master w/o Pistons	505-619D	505-119D
	Master w/o Rods & Mains		
63	Incl. 5/8" inlet oil pump	MKP-619A	MKP-119A
	Master	MK-619A	MK-119A
	Master w/o Pistons	505-619A	505-119A
	Master w/o Rods & Mains		
62-59	Incl. 5/8" inlet oil pump	MKP-619C	MKP-119C
	Master	MK-619C	MK-119C
	Master w/o Pistons	505-619C	505-119C
	Master w/o Rods & Mains		
58-57	Rear main brg. seal not incl.; Incl. 5/8" inlet oil pump	MKP-619C	MKP-119C
	Master	MK-619C	MK-119C
	Master w/o Pistons	505-619C	505-119C
	Master w/o Rods & Mains		

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**4.7L 288 OHV V8 (Pontiac), 3.75" Bore 1955 33**  
L/D Truck

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	55	<b>CS-187</b>	
16	Lifter	55	<b>HT-951</b> Std Only	Hyd.
16	Lifter, Bulk	55	<b>HT-951B</b> Std Only	Hyd.; Carton of 128
1	Prelube	55	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	55	<b>RP-3028</b>	9.1360" O.A.L.
16	Push Rod, Bulk	55	<b>BRP-3028</b>	Carton of 100; 9.1360" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	55	<b>VG-5034</b>	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.
8	Guide	55	<b>VG-5037</b>	Int.; .3420" ID, 2.7500" O.A.L.
8	Guide	55	<b>VG-5072</b>	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.
8	Guide, Bulk	55	<b>VG-5072B</b>	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	55	<b>VS-445</b>	Inner; 1.8120" Free Height
16	Spring	55	<b>VS-446</b>	Outer; 1.9800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	55	<b>ST-2018R</b>	Positive type; Installation requires valve guide machining; Use w/double spring; PTFE
16	Valve Stem Seal	55	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	55	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	55	<b>ST-2018RBC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Use w/double spring; PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	55	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	55	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	55	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	55	<b>E-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	55	<b>E-240X</b> Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	55	<b>WE-240K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	55	<b>WE-240X</b> Std-30-40-60	2-5/64, 1-3/16

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# GMC Truck (Includes Minivans)

## 33 4.7L 288 OHV V8 (Pontiac), 3.75" Bore 1955 (cont.) L/D Truck

QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	55	SL-19M Std Only	3/32" wall, must be cut to correct length
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Inter. Shaft	55	224-61236	

## 34 4.8L 292 OHV L6 (Chevrolet), 3.875" Bore 1989-63 L/D Truck VIN Codes "S" 1968-72, "T" 1972-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	89-63	221-2528S	Incl. (1) 221-2526, (1) 221-2527
1	Crank Gear	89-63	221-2527	27 Teeth
1	Cam Gear	89-63	221-2526	Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-63	CS-551	
12	Lifter	89-63	HT-817 Std Only	Hyd.
12	Lifter, Bulk	89-63	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	89-63	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	89-63	KC-551	Hyd.; Incl. (1) CS-551, (12) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	89-85	RP-3188	11.3820" O.A.L.
12	Push Rod	84-63	RP-3188	11.3820" O.A.L.
12	Push Rod, Bulk	89-85	BRP-3188	Carton of 100; 11.3820" O.A.L.
12	Push Rod, Bulk	84-63	BRP-3188	Carton of 100; 11.3820" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	89-63	R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk	89-63	R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm	89-63	R-832A	
12	Pivot Ball	89-63	MR-1780	
12	Nut	89-63	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	89-63	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	89-63	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	89-86	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
6	Exhaust	85-63	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Intake	89-71	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake	70-63	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	89-71	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	70-63	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	89-63	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide	89-63	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide	89-63	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide	89-63	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk	89-63	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk	89-63	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk	89-63	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	89-63	VS-521	Exh. & Int.; Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	84-63	ST-2001	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
6	Valve Stem Seal	84-63	MV-1903	Int.; Use w/VG-5038 repair guide; Positive type; Rubber
12	Valve Stem Seal	89-63	MV-1233C	Exh. & Int.; O-Ring; Rubber
12	Valve Stem Seal Bulk	89-63	MV-1233	Exh. & Int.; O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	84-63	ST-2001BC	Exh. & Int.; Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	89-63	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.	89-63	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.	89-63	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	89-63	VK-115	1 groove; Square cut key groove
24	Keeper	89-63	VK-115R	1 groove; Square cut key groove; Hardened

**VALVE TRAIN**

**VALVE TRAIN**

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# GMC Truck (Includes Minivans)

**4.8L 292 OHV L6 (Chevrolet), 3.875" Bore 1989-63 34**  
**L/D Truck VIN Codes "S" 1968-72, "T" 1972-89 (cont.)**

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
24	Keeper, Bulk	89-63	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000	
12	Spring Insert	89-63	<b>259-203C</b>	.015"; Carton of 100	
12	Spring Insert	89-63	<b>259-203B</b>	.030"; Carton of 100	
12	Spring Insert	89-63	<b>259-203BRS</b>	.030"; Carton of 500	
12	Spring Insert	89-63	<b>259-203A</b>	.060"; Carton of 100	
12	Spring Insert	89-63	<b>259-203ARS</b>	.060"; Carton of 500	
6	Rotacap	89-63	<b>RC-157S</b>		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Cast Piston	89-63	<b>H909CP</b> Std-20-30-40-60	Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .312" deep x 3.210" dia. - 7.6:1 C.R.; <b>DurOshield® skirt coated piston</b>	
6	Cast Piston	89-63	<b>H909P</b> Std-20-30-40-60	Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .312" deep x 3.210" dia. - 7.6:1 C.R.	
6	Cast Piston - Individual	89-63	<b>WH909CP</b> Std-20-30-40-60	Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .312" deep x 3.210" dia. - 7.6:1 C.R.; <b>DurOshield® skirt coated piston</b>	
6	Cast Piston - Individual	89-63	<b>WH909P</b> Std-20-30-40-60	Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .312" deep x 3.210" dia. - 7.6:1 C.R.	
6	Pin	89-63	<b>P-2208</b> Std-3-5-0015		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	89-63	<b>E-217K</b> Std-20-30-40-60	2-3/32, 1-3/16	
1	Premium Set	89-63	<b>E-217KC</b> Std Only	2-3/32, 1-3/16	
1	Standard Set	89-63	<b>E-217X</b> Std-20-30-40-60	2-3/32, 1-3/16	
6	Premium Single Cylinder Set	89-63	<b>WE-217K</b> Std-20-30-40-60	2-3/32, 1-3/16	
6	Standard Single Cylinder Set	89-63	<b>WE-217X</b> Std-20-30-40-60	2-3/32, 1-3/16	
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Repair Sleeve	89-63	<b>SL-20Y</b> Std Only	1/8" wall, must be cut to correct length	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	89-63	<b>4124MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1	Rod Set	89-63	<b>6-2555A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>	
1	Rod Set	89-63	<b>6-2555CP</b> Std-10-20-30-40	Overplated copper-lead alloy lining material; 6-2555CA 60 avail. as unplated & resizeable	
1	Rod Set	89-63	<b>6-2555CA60</b> 60	Unplated & resizeable	
6	Rod Pair	89-63	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
6	Rod Pair	89-63	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy	
6	Rod Pair	89-63	<b>2555CA60</b> 60	Unplated & resizeable	
1	Cam Set	89-71	<b>1557M</b> Std Only		
1	Cam Set	70-63	<b>1203M</b> Std Only		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	89-63	<b>224-4147</b>		
1	Oil Pump	89-63	<b>224-4157</b>	High Volume, check pan for clearance	
1	Screen Assy.	89-68	<b>224-1647</b>		
1	Tool	89-63	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	89-85	<b>260-1267</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	84-81	<b>260-1044</b>	Exh. pipe packing not incl.	
1	Kit Gasket Set	80	<b>260-1044</b>	W/24 bolt oil pan	
1	Kit Gasket Set	78-63	<b>260-1005</b>		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	89-63	<b>381-8006</b>		
<b>KIT S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	89-85	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-6036</b>	<b>205-1036</b>
			Re-ring w/Mains	<b>205-6036M</b>	<b>205-1036M</b>
	84-81	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b>	Re-ring	<b>205-6266</b>	<b>205-1266</b>
			Re-ring w/Mains	<b>205-6266M</b>	<b>205-1266M</b>
80	w/24 bolt oil pan; Incl. <b>A-Series aluminum bearings</b>	Re-ring	<b>205-6266</b>	<b>205-1266</b>	
		Re-ring w/Mains	<b>205-6266M</b>	<b>205-1266M</b>	
78-63	Incl. <b>A-Series aluminum bearings</b>	Re-ring w/Mains	<b>205-606M</b>	-----	
78-63	Incl. <b>A-Series aluminum bearings</b>	Re-ring	<b>205-6265</b>	<b>205-1265</b>	
		Re-ring w/Mains	<b>205-6265M</b>	<b>205-1265M</b>	

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# GMC Truck (Includes Minivans)

## 34 4.8L 292 OHV L6 (Chevrolet), 3.875" Bore 1989-63 (cont.) L/D Truck VIN Codes "S" 1968-72, "T" 1972-89

K I T S	OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	89-86	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6036A</b> <b>MK-6036A</b>	<b>MKP-1036A</b> <b>MK-1036A</b>	
	89-86	Exh. pipe packing not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6036A</b>	<b>505-1036A</b>	
	85	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Master Master w/o Pistons	<b>MKP-6036A</b> <b>MK-6036A</b>	<b>MKP-1036A</b> <b>MK-1036A</b>	
	85	Exh. pipe packing not incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-6036A</b>	<b>505-1036A</b>	
	84-81	Exh. pipe packing not incl.	Master w/o Rods & Mains	<b>505-607A</b>	<b>505-107A</b>	
	84-81	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-607A</b> <b>MK-607A</b>	<b>MKP-107A</b> <b>MK-107A</b>	
	84-81	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-607B</b> <b>MK-607B</b>	<b>MKP-107B</b> <b>MK-107B</b>	
	80	W/24 bolt oil pan	Master w/o Rods & Mains	<b>505-607A</b>	<b>505-107A</b>	
	80	W/24 bolt oil pan; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-607A</b> <b>MK-607A</b>	<b>MKP-107A</b> <b>MK-107A</b>	
	80	W/24 bolt oil pan; Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-607B</b> <b>MK-607B</b>	<b>MKP-107B</b> <b>MK-107B</b>	
	78-71		Master w/o Rods & Mains	<b>505-606C</b>	<b>505-106C</b>	
	78-71	Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-606C</b> <b>MK-606C</b>	<b>MKP-106C</b> <b>MK-106C</b>	
	78-71	Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-606E</b> <b>MK-606E</b>	<b>MKP-106E</b> <b>MK-106E</b>	
	70-63		Master w/o Rods & Mains	<b>505-606A</b>	<b>505-106A</b>	
	70-63	Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-606A</b> <b>MK-606A</b>	<b>MKP-106A</b> <b>MK-106A</b>	
	70-63	Incl. <b>A-Series aluminum bearings</b>	Master Master w/o Pistons	<b>MKP-606D</b> <b>MK-606D</b>	<b>MKP-106D</b> <b>MK-106D</b>	

## 35 4.8L 292 OHV LPG L6 (Chevrolet), 3.875" Bore 1976-74 L/D Truck VIN Codes "S" 1974-76, "T" 1974-76

B L O C K	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	B L O C K
	6	Exhaust	76-74	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.	
6	Intake	76-74	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.		
B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	B L O C K
	6	Cast Piston	76-74	<b>980P20</b> 20-30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .150" deep	
	6	Cast Piston - Individual	76-74	<b>W980P20</b> 20-30-40-60	Cast; 2-3/32", 1-3/16" Ring Groove, 2.010" CD, .9275" Pin Dia., Recessed Head .150" deep	
6	Pin	76-74	<b>P-2208</b> Std-3-5-0015			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	74	<b>381-8006</b>			

## 36 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" 1976, "U" 1976-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	<b>KT3-499SA</b>	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
1	3 Piece Set	90-76	<b>KT3-499S</b>	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	90-86	<b>CTS-1000</b>	Oil pan gskt. not incl.; w/.405" tooth width sprocket
1	Timing Set w/Gaskets	90-76	<b>CTS-1100R</b>	
1	Timing Set w/Gaskets	85-76	<b>CTS-1000</b>	w/.405" tooth width sprocket
1	Timing Chain	90-76	<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	90	<b>223-505</b>	Steel; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	90-76	<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	90-76	<b>223-390</b>	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	90-76	<b>223-390N</b>	Nylon; .405" tooth width sprocket; 36 Teeth

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# GMC Truck (Includes Minivans)

**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 36**

**L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" (cont.) 1976, "U" 1976-79**

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-81	<b>CS-711</b>	
1	Camshaft	80-76	<b>CS-673</b>	
1	Performance Cam	80-76	<b>CS-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-76	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-76	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	90-76	<b>HT-817</b> Std Only	Hyd.
16	Lifter	90-76	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	90-76	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	90-76	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	90-76	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-81	<b>KC-711</b>	Hyd.; Incl. (1) CS-711, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-76	<b>KC-673</b>	Hyd.; Incl. (1) CS-673, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-81	<b>KCT-711</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-711, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-76	<b>KCT-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-76	<b>KCT-673</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-673, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-76	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	90-76	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	90-76	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	90-76	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	90-76	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	90-76	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	90-76	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	90-76	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-81	<b>R-973</b>	Incl. arm, ball & nut
16	Arm Assy.	80-76	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	90-81	<b>R-973B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	80-76	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	90-81	<b>R-973A</b>	
16	Arm	80-76	<b>R-826A</b>	
16	Pivot Ball	90-76	<b>MR-1783</b>	
16	Pivot Ball	90-76	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	90-76	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	90-76	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	90-76	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-87	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	90-87	<b>V-2449X</b> Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	86-81	<b>V-1904</b> Std-3-15-30	Exc. VIN Code "H"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.

**VALVE TRAIN**

**VALVE TRAIN**

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# GMC Truck (Includes Minivans)

**36** 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76  
 (cont.) L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" 1976, "U" 1976-79

VALVE TRAIN

VALVE TRAIN

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	86-81	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	86-81	V-1988X Std-3-15	VIN Code "H"; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	80-79	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	80-79	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	78-77	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	78-77	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	78-77	V-1988X Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	76	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	76	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	90-87	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	86-81	V-1904B Std-15	Exc. VIN Code "H"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	86-81	V-1988XB Std-15	VIN Code "H"; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	80-79	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	78-77	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	78-77	V-1988XB Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	76	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Intake	90-81	V-2143 Std-3-5-15	Chrome plated stem; 1.8390" Head Dia., .3410" Stem Dia., 4.9120" O.A.L.
8	Intake	80-76	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	90-81	V-2143B Std-15	Chrome plated stem; Carton of 25; 1.8400" Head Dia., .3413" Stem Dia., 4.9120" O.A.L.
8	Intake, Bulk	80-76	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-77	VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
8	Guide	90-77	VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	90-77	VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide	86-76	VG-5046	Exh.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide	86-76	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	90-77	VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	90-77	VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	86-76	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-78	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	90-78	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring	77-76	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	77-76	VS-677	Int.; Incl. damper; 2.0300" Free Height
16	Spring, Bulk	90-78	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	90-78	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
8	Spring, Bulk	77-76	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	77-76	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-76	ST-2003	Exh. & Int.; w/.343" stem dia.; Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	90-76	ST-2092	Exh. & Int.; w/.343" stem dia.; Positive type; Rubber
16	Valve Stem Seal	90-76	ST-2004	Exh. & Int.; W/.375" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	90-81	MV-1921	Exh.; Umbrella type; Nylon
16	Valve Stem Seal	90-81	MV-1233C	Exh. & Int.; O-Ring; Rubber
8	Valve Stem Seal	90-81	MV-1888C	Int.; Positive type; Viton®
16	Valve Stem Seal	80-76	MV-1233C	Exh. & Int.; O-Ring; Rubber

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# GMC Truck (Includes Minivans)

**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 36**

L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" (cont.) 1976, "U" 1976-79

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal Bulk	90-81	<b>MV-1921B</b>	Exh.; Umbrella type; Carton of 100; Nylon
16	Valve Stem Seal Bulk	90-81	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	90-81	<b>MV-1888</b>	Int.; Positive type; Carton of 50; Viton®
16	Valve Stem Seal Bulk	90-76	<b>ST-2003BC</b>	Exh. & Int.; w/.343" stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-76	<b>ST-2004BC</b>	Exh. & Int.; w/.375" stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	80-76	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-76	<b>245-1687-2N</b> Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	90-76	<b>245-1687-2</b> Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	90-76	<b>245-2062-1</b> Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-76	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-76	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-76	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-76	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	90-76	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	90-76	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	90-76	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	90-76	<b>259-203ARS</b>	.060"; Carton of 500
8	Rotocap	90-76	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-87	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	90-87	<b>536NCP20</b> 20-30-40-60	VIN Code "H"; Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.;
8	Cast Piston	90-87	<b>536NP</b> Std-20-30-40-60	<b>DurOshield® skirt coated piston</b> VIN Code "H"; Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston	86-76	<b>611P</b> Std-20-30-40-60	Cast; Use w/E-356K, E-356KC or E-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston	86-76	<b>454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual	90-87	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	90-87	<b>W536NP</b> Std-20-30-40-60	VIN Code "H"; Cast; Use w/WE-356K or WE-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston - Individual	86-76	<b>W611P</b> Std-20-30-40-60	Cast; Use w/WE-356K or WE-356X ring set; For use w/350 crank w/o need to rebalance Eng.; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .095" deep x 3.130" dia. w/4 valve reliefs
8	Cast Piston - Individual	86-76	<b>W454NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings	90-87	<b>8K536NCP20</b> 20-30-40-60	VIN Code "H"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.;
1	Cast Piston Set w/Prem. Rings	86-76	<b>8K454NP30</b> 30-40-60	<b>DurOshield® skirt coated piston</b> Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings	90-87	<b>8X536NP20</b> 20-30-40	VIN Code "H"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
1	Cast Piston Set w/Econ. Rings	86-76	<b>8X454NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-76	<b>E-356K</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-76	<b>E-356KC</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Standard Set	90-76	<b>E-356X</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-76	<b>WE-356K</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-76	<b>WE-356X</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16

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# GMC Truck (Includes Minivans)

**36** 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76  
 (cont.) L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" 1976, "U" 1976-79

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-76	4663M Std-1-2-10-20-30-40-60	
1	Main Set	90-76	6688M10 10-20-30	.020" O/S length flange brg.
1	Main Set	90-76	4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	90-76	7329MA10 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set	90-76	7274MA10X20 10X20	<b>A-Series aluminum bearings</b> ; w/.020" O/S OD
1	Rod Set	90-86	8-2555CP Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	90-76	8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-76	8-2555A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	90-76	8-2555CP10X2 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	90-76	8-2555CA60 60	Unplated & resizeable
8	Rod Pair	90-76	2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	90-76	2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	90-76	2555CA60 60	Unplated & resizeable
1	Cam Set	90-76	1235M Std-1-10	Babbitt material; Full round design
1	Cam Set	90-76	1749M Std Only	Bi-Metal Aluminum
1	Cam Set	90-76	1811M Std Only	Race Performance; "Big Block"; Split type design, 2.120" housing bore
1	Cam Set	90-76	1750M Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-43469V	High Volume, check pan for clearance; 3/4" inlet; Use w/steel guide
1	Oil Pump	90	224-43469	3/4" inlet; w/nylon shaft guide
1	Oil Pump	90-76	224-4146A	High Pressure; 5/8" inlet
1	Oil Pump	90-76	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	90-76	224-4146	5/8" inlet
1	Inter. Shaft	90-76	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	90-76	224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	90-76	224-43343	Nylon
1	Screen Assy.	90-77	224-1246	5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-87	260-1246	C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90-87	260-1246	Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	260-1243	C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	260-1243	Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1243	C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1024	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1243	Exc. C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85	260-1024	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Premium valve stem seals incl.
1	Kit Gasket Set	84-81	260-1024	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84-81	260-1024	Exc. C20, G20, K20, C2500, G2500, K2500; Premium valve stem seals incl.
1	Kit Gasket Set	80	260-1023	
1	Kit Gasket Set	79-76	260-1023	
2	Head Bolt Set	90-76	260-2500	

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# GMC Truck (Includes Minivans)

5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 **36**

L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" (cont.)  
1976, "U" 1976-79

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-86	<b>381-8059</b>			
1	Brass Block Plug Kit	85-76	<b>381-8007</b>			
1	Steel Block Plug Kit	90-76	<b>381-4011</b>			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>			<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>
	90-87			C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring 205-6026 205-6026M	205-1026 205-1026M
	90-87			Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.	Re-ring 205-6026 205-6026M	205-1026 205-1026M
	86			C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring 205-6024 205-6024M	205-1024 -----
	86			Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring 205-6024 205-6024M	205-1024 -----
	86			C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains -----	205-1270M
	86			Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains -----	205-1270M
	85			C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring 205-6024 205-6024M	205-1024 -----
	85			Exc. C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring 205-6024 205-6024M	205-1024 -----
	85			C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains -----	205-1270M
	85			Exc. C20, G20, K20, C2500, G2500, K2500; w/One-piece rear main brg. seal; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains -----	205-1270M
	85			C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring 205-6286 205-6286M	205-1286 205-1286M
	85			Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring 205-6286 205-6286M	205-1286 205-1286M
	84-81			C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring 205-6286 205-6286M	205-1286 205-1286M

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# GMC Truck (Includes Minivans)

**36** 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76  
 (cont.) L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" 1976, "U" 1976-79

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
84-81	Exc. C20, G20, K20, C2500, G2500, K2500; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6286</b> <b>205-6286M</b>	<b>205-1286</b> <b>205-1286M</b>
80	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6285</b> <b>205-6285M</b>	<b>205-1285</b> <b>205-1285M</b>
79-76	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6285</b> <b>205-6285M</b>	<b>205-1285</b> <b>205-1285M</b>
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. nylon shaft guide; Incl. 536NP piston	Block w/Pump & Freeze Plugs	<b>BKP-6074</b>	----
90	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; Incl. nylon shaft guide; Incl. 536NP piston	Block w/Pump & Freeze Plugs	<b>BKP-6074</b>	----
90	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; .200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; w/nylon shaft guide; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-7021</b> <b>MK-7021</b>	----
90	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; .200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; w/nylon shaft guide; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-7021</b>	----
90	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; .200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; w/nylon shaft guide; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-7021</b> <b>MK-7021</b>	----
90	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; .200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 3/4" inlet oil pump; w/nylon shaft guide; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-7021</b>	----
90-87	C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-6026E</b>	<b>MK-1026E</b>
90-87	Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-6026E</b>	<b>MK-1026E</b>
90-87	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-6026E</b>	<b>MKP-1026E</b>

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# GMC Truck (Includes Minivans)

5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 **36**

L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" (cont.) 1976, "U" 1976-79

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	90-87	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6026E	505-1026E
	90-87	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6026E	MKP-1026E
	90-87	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6026E	505-1026E
	90-87	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 536NP piston	Block w/Pump & Freeze Plugs	BKP-6072	----
	90-87	VIN Code "H"; C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 536NP piston	Block	BK-6072	----
	90-87	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 536NP piston	Block w/Pump & Freeze Plugs	BKP-6072	----
	90-87	VIN Code "H"; Exc. C20, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 536NP piston	Block	BK-6072	----
	86	C20, C25, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6024D	MK-1024D
	86	Exc. C20, C25, G20, K20, C2500, G2500, K2500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6024D	MK-1024D
	85	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
	85	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
	85	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A

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# GMC Truck (Includes Minivans)

**36** 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76  
 (cont.) L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" 1976, "U" 1976-79

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
85	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
85	C20, G25, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
85	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
85	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
85	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
85	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
85	Exc. C20, G20, K20, C2500, G2500, K2500; w/Two-piece rear main bearing seal; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
84-81	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
84-81	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A
84-81	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
84-81	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
84-81	C20, G20, K20, C2500, G2500, K2500; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
84-81	Exc. C20, G20, K20, C2500, G2500, K2500; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-648A	MK-148A
84-81	Exc. C20, G20, K20, C2500, G2500, K2500; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	----	MKP-148A

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# GMC Truck (Includes Minivans)

**5.0L 305 OHV V8 (Chevrolet), 3.736" Bore 1990-76 36**

**L/D Truck VIN Codes "F" 1981-86, "G" 1980-81 & 1984-87, "H" 1979-96, "M" 1996-2002 (Vortec), "Q" (cont.) 1976, "U" 1976-79**

K I T S	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	84-81	Exc. C20, G20, K20, C2500, G2500, K2500; w/.200" deep oil ring groove; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	----	505-148A
	84-81	Exc. C20, G20, K20, C2500, G2500, K2500; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master	MKP-648A	----
	84-81	Exc. C20, G20, K20, C2500, G2500, K2500; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket; Incl. 454NP piston	Master w/o Rods & Mains	505-648A	----
	80	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-647A MK-647A	MKP-147A MK-147A
	80	w/.200" deep oil ring groove; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-647A	505-147A
	79-76	w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	MKP-647A MK-647A	MKP-147A MK-147A
	79-76	w/.200" deep oil ring groove; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-647A	505-147A

**5.0L 305 OHV V6 (GMC), 4.25" Bore 1969-60 37**

**L/D Truck 305, 305C, 305E Engs.**

V A L V E  T R A I N	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Crank Sprocket	69-66	223-377
	1	Crank Sprocket	65-60	223-311	24 Teeth
	1	Cam Sprocket	65-60	223-310	48 Teeth
V A L V E  T R A I N	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Push Rod	69-60	RP-3099	7.9890" O.A.L.
V A L V E  T R A I N	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	69-60	V-1558 Std Only	Eng. Codes "A", "D" & "E"; Use w/o rotocap; w/o seal groove; w/o seal groove; Use w/o Rotocaps; 1.5669" Head Dia., .3406" Stem Dia., 5.9094" O.A.L.
V A L V E  T R A I N	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Guide	69-60	VG-5037	Int.; .3420" ID, 2.7500" O.A.L.
	6	Guide	69-60	VG-5072	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.
	6	Guide	69-60	VG-5075T	Int.; Threaded; .3440" ID, 2.8750" O.A.L.
	6	Guide, Bulk	69-60	VG-5072B	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.
	6	Guide, Bulk	69-60	VG-5075TB	Int.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.
V A L V E  T R A I N	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Valve Stem Seal	69-60	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal	69-60	MV-1233C	O-Ring; Rubber
	12	Valve Stem Seal Bulk	69-60	MV-1233	O-Ring; Carton of 100; Rubber
	12	Valve Stem Seal Bulk	69-60	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
V A L V E  T R A I N	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exh.	69-60	245-1687-2N Std Only	Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
	6	Exh.	69-60	245-1687-2 Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
	6	Int.	69-60	245-2062-1 Std Only	2.0680" OD, 1.8125" ID, .2480" Depth
V A L V E  T R A I N	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	24	Keeper	69-60	VK-115	1 groove; Square cut key groove
	24	Keeper	69-60	VK-115R	1 groove; Square cut key groove; Hardened
	24	Keeper, Bulk	69-60	VK-115B	1 groove; Square cut key groove; Carton of 1000
B L O C K	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Pin Bushing	69-60	2404Y20	
B L O C K	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	69-60	5659KX Std-30-40-60	3-3/32, 1-3/16
B L O C K	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	69-60	4067MA Std-10	<b>A-Series aluminum bearings</b> ; Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process

(continued on next page)

# GMC Truck (Includes Minivans)

## 37 5.0L 305 OHV V6 (GMC), 4.25" Bore 1969-60

(cont.) L/D Truck 305, 305C, 305E Engs.

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK
	6	Rod Pair	69-60	2400P Std-10-20-30	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	
	1	Cam Set	69-60	1198M Std Only		
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	69-60	224-41154	3/8" dia. mounting holes; Governor spinner not incl., Re-use original if req'd.	
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
	1	Brass Block Plug Kit	69-60	381-8019		

## 38 5.0L 307 OHV V8 (Chevrolet), 3.875" Bore 1973-68

L/D Truck VIN Codes "A" 1970, "B" 1970, "E" 1968-69, "F" 1972-73, "H" 1971, "P" 1971, "U" 1969, "X" 1973

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	3 Piece Set	73-68	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391	
	1	Timing Set w/Gaskets	73-68	CTS-1100R	Use w/.405" tooth width sprocket; 46 Links Powdered metal; .405" tooth width sprocket; 18 Teeth .405" tooth width sprocket; 36 Teeth Nylon; .405" tooth width sprocket; 36 Teeth	
	1	Timing Chain	73-68	222-499		
	1	Crank Sprocket	73-68	223-391		
	1	Cam Sprocket	73-68	223-390		
	1	Cam Sprocket	73-68	223-390N		
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	73-68	CS-274	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees	
	1	Performance Cam	73-68	CS-1103R		
	1	Performance Cam	73-68	CS-1014R		Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
	1	Performance Cam	73-68	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees	
	16	Lifter	73-68	HT-817 Std Only	Hyd.	
	16	Lifter, Bulk	73-68	HT-817B Std Only	Hyd.; Carton of 128	
	1	Prelube	73-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
	1	Cam/Lifter Kit	73-68	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	KC-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	KC-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	73-68	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	73-68	KCT-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	73-68	KCT-274	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B	
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
	16	Push Rod	73-68	RP-3212R	Chrome-Moly; 7.7900" O.A.L.	
	16	Push Rod	73-68	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.	
	16	Push Rod	73-68	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.	
	16	Push Rod	73-68	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.	
	16	Push Rod	73-68	RP-3093	7.7940" O.A.L.	
	16	Push Rod, Bulk	73-68	BRP-3093	Carton of 100; 7.7940" O.A.L.	
	16	Push Rod, Bulk	73-68	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.	
	16	Push Rod, Bulk	73-68	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.	

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# GMC Truck (Includes Minivans)

**5.0L 307 OHV V8 (Chevrolet), 3.875" Bore 1973-68 38**

**L/D Truck VIN Codes "A" 1970, "B" 1970, "E" 1968-69, "F" 1972-73, "H" 1971, "P" 1971, "U" 1969, "X" (cont.) 1973**

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	73-68	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	73-68	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	73-68	<b>R-826A</b>	
16	Pivot Ball	73-68	<b>MR-1783</b>	
16	Pivot Ball	73-68	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	73-68	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	73-68	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	73-68	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	73-72	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	73-72	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	71	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	71	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	71	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust	70-68	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	70-68	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	73-72	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	71	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	71	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	70-68	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	73	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	73	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	72	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	71	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	71	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	70-68	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	73	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	73	<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	72	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	71	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	71	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	70-68	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	73	<b>VS-727</b>	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	73	<b>VS-677</b>	Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-68	<b>VS-677</b>	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-68	<b>VS-739R</b>	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring, Bulk	73	<b>VS-727B</b>	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	73	<b>VS-677B</b>	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-68	<b>VS-677B</b>	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-68	<b>VS-739RB</b>	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	73-68	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	73-68	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	73-68	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	73-68	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	73-68	<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# GMC Truck (Includes Minivans)

**38 5.0L 307 OHV V8 (Chevrolet), 3.875" Bore 1973-68**  
 (cont.) L/D Truck VIN Codes "A" 1970, "B" 1970, "E" 1968-69, "F" 1972-73, "H" 1971, "P" 1971, "U" 1969, "X" 1973

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	73	<b>245-2125-1</b> Std Only	Use w/V-1926; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	73-68	<b>245-1562-2N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
8	Exh.	73-68	<b>245-1562-2</b> Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
8	Int.	73-68	<b>245-1812-3</b> Std Only	Use w/V-1200 & V-1927; 1.8175" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	73-68	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	73-68	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	73-68	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	73-68	<b>259-201B</b>	.030"; Carton of 100
16	Spring Insert	73-68	<b>259-201A</b>	.060"; Carton of 100
16	Spring Insert	73-68	<b>259-201ARS</b>	.060"; Carton of 500
8	Rotocap	73	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	73-68	<b>295P</b> * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston	73-68	<b>295AP</b> + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 295P
8	Cast Piston - Individual	73-68	<b>W295P</b> * Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual	73-68	<b>W295AP</b> + Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W295P
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	73-68	<b>E-245K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	73-68	<b>E-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	73-68	<b>WE-245K</b> Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	73-68	<b>WE-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-68	<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set	73-68	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	73-68	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	73-68	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Rod Set	73-68	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	73-68	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set	73-68	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set	73-68	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set	73-68	<b>8-2555CA60</b> 60	Unplated & resizeable
8	Rod Pair	73-68	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	73-68	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	73-68	<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set	73-68	<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set	73-68	<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set	73-68	<b>1750M</b> Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	73-68	<b>224-4146A</b>	High Pressure; 5/8" inlet
1	Oil Pump	73-68	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	73-68	<b>224-4146</b>	5/8" inlet
1	Inter. Shaft	73-72	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	73-72	<b>224-6146</b>	Use w/nylon shaft guide
1	Inter. Shaft	71	<b>224-6146E</b>	Exc. Sprint; Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	71	<b>224-6146</b>	Exc. Sprint; Use w/nylon shaft guide
1	Inter. Shaft	71	<b>224-6154A</b>	Sprint; Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide
1	Inter. Shaft	70-68	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	70-68	<b>224-6146</b>	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	73-68	<b>224-43343</b>	Nylon
1	Screen Assy.	73-71	<b>224-1146</b>	Exc. Sprint & G Series; 5/8" inlet
1	Screen Assy.	73-71	<b>224-1246</b>	Exc. Sprint & G Series; 5/8" inlet tube
1	Screen Assy.	70-68	<b>224-1146</b>	5/8" inlet
1	Tool	73-68	<b>MT-J21882</b>	Pump screen installation tool for 5/8" tube

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## GMC Truck (Includes Minivans)

**5.0L 307 OHV V8 (Chevrolet), 3.875" Bore 1973-68 38**

L/D Truck VIN Codes "A" 1970, "B" 1970, "E" 1968-69, "F" 1972-73, "H" 1971, "P" 1971, "U" 1969, "X" 1973 (cont.)

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	73-68	260-1000	
2	Head Bolt Set	73-68	260-2500	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	73-68	381-8007	
1	Steel Block Plug Kit	73-68	381-4011	
<b>KITS</b>	<b>RE-RING KIT</b>			
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>
	73-68	Incl. <b>A-Series aluminum bearings</b>	Re-ring	205-6283
			Re-ring w/Mains	205-6283M
	<b>OVERHAUL KIT</b>			<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
73-68	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-620A	505-120A
73-68	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-620B	MKP-120B
		Master w/o Pistons	MK-620B	MK-120B

**5.2L 316 OHV V8 (Pontiac), 3.9375" Bore 1956-55 39**

L/D Truck

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	56	CS-187	
16	Lifter	56	HT-951 Std Only	Hyd.
16	Lifter, Bulk	56	HT-951B Std Only	Hyd.; Carton of 128
1	Prelube	56	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	56	KC-187	Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	56	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
16	Push Rod	56	RP-3028	9.1360" O.A.L.
16	Push Rod, Bulk	56	BRP-3028	Carton of 100; 9.1360" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	56	VS-445	Inner; 1.8120" Free Height
16	Spring	56	VS-446	Outer; 1.9800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	56	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	56	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	56	VK-115	1 groove; Square cut key groove
32	Keeper	56	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	56	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	56	E-252X Std-30	2-5/64, 1-3/16
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Inter. Shaft	56-55	224-61236	

**5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62 40**

L/D Truck VIN Code "E" 1968

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-67	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	66-65	KT3-489S	Incl. (1) 222-489, (1) 223-261, (1) 223-262
1	Timing Set w/Gaskets	68-62	CTS-1100R	
1	Timing Chain	69-67	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Timing Chain	66-65	222-489	46 Links
1	Crank Sprocket	69-67	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	66-65	223-262	18 Teeth
1	Cam Sprocket	69-67	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	69-67	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	66-65	223-261	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	68-62	CS-274	
1	Performance Cam	68-62	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees

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# GMC Truck (Includes Minivans)

**40 5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62**  
 (cont.) L/D Truck VIN Code "E" 1968

QTY	CAMSHAFT/LIFTER (cont.)	YEARS	PART NO.	DESCRIPTION
1	Performance Cam	68-62	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	68-62	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	68-62	<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk	68-62	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube	68-62	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	68-62	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-62	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-62	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	68-62	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	68-67	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	68-62	<b>KCT-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-65	<b>KCT-274A</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	68-62	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	68-62	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	68-62	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	68-62	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	68-62	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	68-62	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	68-62	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	68-62	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	68-62	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	68-62	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	68-62	<b>R-826A</b>	
16	Pivot Ball	68-62	<b>MR-1783</b>	
16	Pivot Ball	68-62	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	68-62	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	68-62	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	68-62	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	68-62	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Intake	68-62	<b>V-1200</b> Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	68-62	<b>V-1200B</b> Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	68-67	<b>VS-677</b>	Incl. damper; 2.0300" Free Height
16	Spring	68-67	<b>VS-739R</b>	Optional-H/D; 2.0000" Free Height
16	Spring	66-62	<b>VS-521</b>	Incl. damper; 2.1090" Free Height
16	Spring, Bulk	68-67	<b>VS-677B</b>	Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	68-67	<b>VS-739RB</b>	Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	68-62	<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	68-62	<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	68-62	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	68-62	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber

**VALVE TRAIN**

**VALVE TRAIN**

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# GMC Truck (Includes Minivans)

**5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62 40**  
**L/D Truck VIN Code "E" 1968 (cont.)**

VALVE TRAIN	QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
	16	Valve Stem Seal Bulk	68-62	ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	8	Exh.	68-62	245-1562-2N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2480" Depth
	8	Exh.	68-62	245-1562-2 Std Only	1.5675" OD, 1.3125" ID, .2480" Depth
	8	Int.	68-62	245-1812-3 Std Only	1.8175" OD, 1.5000" ID, .2160" Depth
	32	Keeper	68-62	VK-115	1 groove; Square cut key groove
	32	Keeper	68-62	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	68-62	VK-115B	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	68-62	259-203C	.015"; Carton of 100
	16	Spring Insert	68-62	259-203B	.030"; Carton of 100
	16	Spring Insert	68-62	259-203BRS	.030"; Carton of 500
	16	Spring Insert	68-62	259-203A	.060"; Carton of 100
	16	Spring Insert	68-62	259-203ARS	.060"; Carton of 500
	8	Rotocap	66-62	RC-157S	
	8	Cast Piston	68-62	H951P30 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Recessed Head .065" deep x 3.200" dia. w/2 valve reliefs
	8	Cast Piston - Individual	68-62	WH951P30 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Recessed Head .065" deep x 3.200" dia. w/2 valve reliefs
	1	Premium Set	68-62	E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
	1	Premium Set	68-62	E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
	1	Standard Set	68-62	E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	68-62	WE-251K Std-20-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	68-62	WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	68-62	WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
	1	Main Set	68	4663M Std-1-2-10-20-30-40-60	
	1	Main Set	68	6688M10 10-20-30	.020" O/S length flange brg.
	1	Main Set	68	4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
	1	Main Set	68	7329MA10 10-20-30	<b>A-Series aluminum bearings;</b> .010" O/S length flange brg.
	1	Main Set	67-63	994M Std-1-10-20-30-40	
	1	Rod Set	68	8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Rod Set	68	8-2555A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
	1	Rod Set	68	8-2555CP10X2 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
	1	Rod Set	68	8-2555CP Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
	1	Rod Set	67-63	8-2020CP Std-1-10-20-30-40	
	1	Rod Set	69-68	8-2555CA60 60	Unplated & resizeable
	8	Rod Pair	68	2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair	68	2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8	Rod Pair	67-63	2020CP Std-1-2-10-20-30-40-50	
	8	Rod Pair	69-68	2555CA60 60	Unplated & resizeable
	1	Cam Set	67-63	1235M Std-1-10	Babbitt material; Full round design
	1	Cam Set	67-63	1749M Std Only	Bi-Metal Aluminum
	1	Cam Set	67-63	1750M Std Only	2.030" housing bore
	1	Oil Pump	68-62	224-4146A	High Pressure; 5/8" inlet
	1	Oil Pump	68-62	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	68-62	224-4146	5/8" inlet
	1	Inter. Shaft	68-62	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
	1	Inter. Shaft	68-62	224-6146	Use w/nylon shaft guide
	1	Screen Assy.	68-62	224-1146	5/8" inlet
	1	Kit Gasket Set	69-62	260-1000	
	2	Head Bolt Set	69-62	260-2500	
	1	Brass Block Plug Kit	69-62	381-8007	

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# GMC Truck (Includes Minivans)

**40 5.3L 327 OHV V8 (Chevrolet), 4" Bore 1969-62**  
(cont.) L/D Truck VIN Code "E" 1968

QTY	FREEZE PLUGS (cont.)	YEARS	PART NO.	DESCRIPTION		
1	Steel Block Plug Kit	69-62	381-4011			
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	68	Incl. A-Series aluminum bearings		Re-ring	205-630	205-130
				Re-ring w/Mains	205-630M	205-130M
	67-63			Re-ring	205-662	205-162
				Re-ring w/Mains	205-662M	205-162M
	<b>OVERHAUL KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	67	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket		Master w/o Rods & Mains	505-630E	505-130E
	67	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket		Master	MKP-662J	MKP-162J
			Master w/o Pistons	MK-662J	MK-162J	
66-65	Incl. 5/8" inlet oil pump		Master w/o Pistons	MK-662C	MK-162C	

**41 5.5L 336.9 OHV V8 (Pontiac), 3.875" Bore 1959**  
L/D Truck

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
16	Lifter	59	HT-951	Std Only	Hyd.	
16	Lifter, Bulk	59	HT-951B	Std Only	Hyd.; Carton of 128	
<b>B L O C K</b>	<b>VALVE GUIDE</b>				<b>DESCRIPTION</b>	
	8	Guide	59	VG-5037	Exh.; .3420" ID, 2.7500" O.A.L.	
	8	Guide	59	VG-5072	Exh.; Cut to fit; .3440" ID, 2.8750" O.A.L.	
	8	Guide	59	VG-5075T	Exh.; Threaded; .3440" ID, 2.8750" O.A.L.	
	8	Guide	59	VG-5034	Int.; Cut to fit; .3430" ID, 2.5000" O.A.L.	
	8	Guide, Bulk	59	VG-5072B	Exh.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.	
	8	Guide, Bulk	59	VG-5075TB	Exh.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.	
	8	Pin Bushing	59	1559VA	1.037" OD	
<b>B L O C K</b>	<b>ENGINE BEARINGS</b>				<b>DESCRIPTION</b>	
	1	Rod Set	59	8-1555CPA	Std-10-20-30-40	
	8	Rod Pair	59	1555CPA	Std-1-10-20-30-40	
1	Cam Set	59	1146M	Std Only		
<b>B L O C K</b>	<b>OIL PUMP</b>				<b>DESCRIPTION</b>	
	1	Inter. Shaft	59	224-61236		

**42 5.7L 347 OHV V8 (Pontiac), 3.9375" Bore 1957**  
L/D Truck

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	57	CS-187			
16	Lifter	57	HT-951	Std Only	Hyd.	
16	Lifter, Bulk	57	HT-951B	Std Only	Hyd.; Carton of 128	
1	Pre-lube	57	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>V A L V E  T R A I N</b>	<b>CAM KIT</b>				<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	57	KC-187	Hyd.; Incl. (1) CS-187, (16) HT-951, (1) 55-403B	
	<b>VALVE GUIDE</b>				<b>DESCRIPTION</b>	
	8	Guide	57	VG-5034	Exh.; Cut to fit; .3430" ID, 2.5000" O.A.L.	
	8	Guide	57	VG-5037	Int.; .3420" ID, 2.7500" O.A.L.	
	8	Guide	57	VG-5072	Int.; Cut to fit; .3440" ID, 2.8750" O.A.L.	
	8	Guide	57	VG-5075T	Int.; Threaded; .3440" ID, 2.8750" O.A.L.	
	8	Guide, Bulk	57	VG-5072B	Int.; Cut to fit; Carton of 100; .3440" ID, 2.8750" O.A.L.	
	8	Guide, Bulk	57	VG-5075TB	Int.; Threaded; Carton of 100; .3440" ID, 2.8750" O.A.L.	
	<b>V A L V E  T R A I N</b>	<b>VALVE SPRING</b>				<b>DESCRIPTION</b>
16		Spring	57	VS-445	Inner; 1.8120" Free Height	
16	Spring	57	VS-446	Outer; 1.9800" Free Height		
<b>V A L V E  T R A I N</b>	<b>VALVE SEAL</b>				<b>DESCRIPTION</b>	
	16	Valve Stem Seal	57	ST-2003	Positive type; Installation requires valve guide machining; Rubber	
	16	Valve Stem Seal	57	ST-2092	Positive type; Rubber	
	16	Valve Stem Seal	57	MV-1233C	O-Ring; Rubber	
	16	Valve Stem Seal Bulk	57	MV-1233	O-Ring; Carton of 100; Rubber	
	16	Valve Stem Seal Bulk	57	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber	
<b>V A L V E  T R A I N</b>	<b>VALVE, MISC</b>				<b>DESCRIPTION</b>	
	32	Keeper	57	VK-115	1 groove; Square cut key groove	
32	Keeper	57	VK-115R	1 groove; Square cut key groove; Hardened		

(continued on next page)

# GMC Truck (Includes Minivans)

5.7L 347 OHV V8 (Pontiac), 3.9375" Bore 1957 <b>42</b> L/D Truck (cont.)				
QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper, Bulk	57	VK-115B	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Standard Set	57	E-252X Std-30	2-5/64, 1-3/16
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Inter. Shaft	57	224-61236	
5.7L 348 OHV V8 (Chevrolet), 4.125" Bore 1960-58 <b>43</b> L/D Truck				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Chain	60-58	222-162	64 Links
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	60-58	CS-171	w/2 Bbl. Carb.; w/4 Bbl. Carb.; Use w/Hyd. lifters
16	Lifter	60-58	HT-817 Std Only	Hyd.
16	Lifter, Bulk	60-58	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	60-58	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Push Rod	60-58	RP-3229R	Chrome-Moly; 9.1300" O.A.L.
8	Push Rod	60-58	RP-3028	Exh.; 9.1360" O.A.L.
8	Push Rod	60-58	RP-3102	Int.; 8.7780" O.A.L.
8	Push Rod, Bulk	60-58	BRP-3028	Exh.; Carton of 100; 9.1360" O.A.L.
8	Push Rod, Bulk	60-58	BRP-3102	Int.; Carton of 25; 8.7780" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	60-58	R-827	Incl. arm, ball & nut
16	Pivot Ball	60-58	MR-1780	
16	Nut	60-58	MR-1751	Self-locking, 3/8" x 24 threads
16	Stud	60-58	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	60-58	MR-1949	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	58	VG-5033	Exh.; .3735" ID, 2.6200" O.A.L.
8	Guide	58	VG-5062	Int.; Plain; .3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	60-58	VS-522	Incl. damper; 2.0000" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	60-58	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	60-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	60-58	VK-138	1 groove; Square cut key groove
32	Keeper	60-58	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	60-58	VK-138B	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	60-58	E-243K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	60-58	E-243X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	60-58	WE-243K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	60-58	WE-243X Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	60-58	4036M Std-10-20	
1	Rod Set	60-58	8-3190A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	60-58	3190A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Cam Set	60-58	1177M Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	60-58	224-4146A	High Pressure; 5/8" inlet
1	Oil Pump	60-58	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1	Oil Pump	60-58	224-4146	5/8" inlet
1	Inter. Shaft	60-58	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide
1	Inter. Shaft	60-58	224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide	60-58	224-43343	Nylon
1	Screen Assy.	60-58	224-1146	5/8" inlet
1	Tool	60-58	MT-J21882	Pump screen installation tool for 5/8" tube

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90	KT3-499SA	VIN Code "K"; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-505
1	3 Piece Set	90-87	KT3-4SR46	VIN Code "K"; Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) 222-4SR46, (1) 223-634, (1) 223-645
1	3 Piece Set	90-85	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	90-85	KT3-163S	Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	3 Piece Set	86-85	KT3-4SR46	Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) 222-4SR46, (1) 223-634, (1) 223-645
1	3 Piece Set	84-69	KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	3 Piece Set	84-69	KT3-163S	Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	Timing Set w/Gaskets	90-86	CTS-1000	Oil pan gskt. not incl.; w/.405" tooth width sprocket
1	Timing Set w/Gaskets	90-86	CTS-1003	Oil pan gskt. not incl.; Incl. double rlr. type chain
1	Timing Set w/Gaskets	90-69	CTS-1100R	
1	Timing Set w/Gaskets	85-75	CTS-1000	w/.405" tooth width sprocket
1	Timing Set w/Gaskets	85-75	CTS-1003	Incl. double rlr. type chain
1	Timing Set w/Gaskets	74-69	CTS-1001	w/.405" tooth width sprocket
1	Timing Set w/Gaskets	74-69	CTS-1002	Incl. double rlr. type chain
1	Timing Chain	90	222-180	VIN Code "K"; 48 Links
1	Timing Chain	90-85	222-4SR46	Use w/.280" tooth width sprocket; 46 Links
1	Timing Chain	90-80	222-163	Double rlr.; 58 Links
1	Timing Chain	90-80	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Timing Chain	79-78	222-359	Caballero; 54 Links
1	Timing Chain	79-78	222-163	Double rlr.; 58 Links
1	Timing Chain	79-78	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Timing Chain	77-69	222-163	Double rlr.; 58 Links
1	Timing Chain	77-69	222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	90	223-505	VIN Code "K"; Steel; .405" tooth width sprocket; 18 Teeth
1	Crank Sprocket	90-85	223-645	.280" tooth width sprocket; 18 Teeth
1	Crank Sprocket	90-69	223-289	Double row; 22 Teeth
1	Crank Sprocket	90-69	223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	90-87	223-634	VIN Code "K"; Single row; .280" tooth width sprocket; 36 Teeth
1	Cam Sprocket	90-85	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	90-85	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	90-69	223-288	Double row; 44 Teeth
1	Cam Sprocket	86-85	223-634	Single row; .280" tooth width sprocket; 36 Teeth
1	Cam Sprocket	84-69	223-390	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	84-69	223-390N	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-75	CS-274	
1	Camshaft	74	CS-274	Exc. Calif. Emis.
1	Camshaft	73	CS-274	Exc. Calif. Emis.
1	Camshaft	72-69	CS-274	Exc. Calif. Emis.
1	Performance Cam	80-69	CS-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-69	CS-1014R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-69	CS-1106R	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	90-69	HT-817 Std Only	Hyd.
16	Lifter	90-69	HT-817R Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	90-69	HT-817B Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	90-69	HT-817RB Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	90-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-80	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-69	KC-1103R	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B

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# GMC Truck (Includes Minivans)

**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80-69	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-69	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	79-75	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	74	<b>KC-274</b>	Exc. Calif. Emis.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	73	<b>KC-274</b>	Exc. Calif. Emis.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-69	<b>KC-274</b>	Exc. Calif. Emis.; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-87	<b>KCT-274D</b>	VIN Code "K"; Hyd.; Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-4SR46, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-85	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-85	<b>KCT-274C</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
1	Cam/Lifter/Timing Kit	86-85	<b>KCT-274D</b>	Hyd.; Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-4SR46, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-80	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	84-80	<b>KCT-274C</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-69	<b>KCT-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-75	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-75	<b>KCT-274C</b>	Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74	<b>KCT-274</b>	Exc. Calif. Emis.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	74	<b>KCT-274C</b>	Exc. Calif. Emis.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
1	Cam/Lifter/Timing Kit	73	<b>KCT-274</b>	Exc. Calif. Emis.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	73	<b>KCT-274C</b>	Exc. Calif. Emis.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-69	<b>KCT-274</b>	Exc. Calif. Emis.; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-69	<b>KCT-274C</b>	Exc. Calif. Emis.; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	90-69	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	90-69	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	90-69	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	90-69	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	90-69	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	90-69	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	90-69	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	90-69	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
8	Push Rod Guide Plate	90-69	<b>MR-1930</b>	Speed-Pro flat guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-69	<b>MR-1896</b>	Speed-Pro flat guide plate for 5/16" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-69	<b>MR-1892</b>	Speed-Pro stepped guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-69	<b>MR-1891</b>	Speed-Pro stepped guide plate for 5/16" dia. push rods; Requires screw-in studs
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	90-85	<b>R-973</b>	Incl. arm, ball & nut
16	Arm Assy.	84-69	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	90-85	<b>R-973B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm Assy., Bulk	84-69	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64

(continued on next page)

# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Arm	90-85	<b>R-973A</b>	
16	Arm	84-69	<b>R-826A</b>	
16	Pivot Ball	90-69	<b>MR-1783</b>	
16	Pivot Ball	90-69	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	90-69	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	90-69	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	90-69	<b>MR-1865RS</b>	Speed-Pro 3/8" dia. Perf. screw-in stud; requires head machining
16	Stud	90-69	<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-89	<b>V-2449X</b> Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	90-89	<b>V-1888X</b> Std-15	VIN Code "K"; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	90-89	<b>V-1904</b> Std-3-15-30	VIN Code "K"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	90-89	<b>V-1988X</b> Std-3-15	VIN Code "K"; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	88-87	<b>V-1904</b> Std-3-15-30	VIN Code "K"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	88-87	<b>V-1988X</b> Std-3-15	VIN Code "K"; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	88-87	<b>V-2449X</b> Std Only	VIN Code "M"; Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	86	<b>V-1904</b> Std-3-15-30	VIN Code "L"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	86	<b>V-2449X</b> Std Only	VIN Codes "K" & "M"; Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	85	<b>V-2449X</b> Std Only	VIN Code "K"; w/H5D Emis.; w/Stainless steel exh. manifold; Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	85	<b>V-1988X</b> Std-3-15	VIN Code "K"; Exc. w/H5D Emis.; w/Stainless steel exh. manifold; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	85	<b>V-1904</b> Std-3-15-30	VIN Code "L"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	85	<b>V-1988X</b> Std-3-15	VIN Code "L"; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	85	<b>V-2449X</b> Std Only	VIN Code "M"; From 1/1/85; 2nd design; Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	85	<b>V-1988X</b> Std-3-15	VIN Code "M"; To 12/31/84; 1st design; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	84	<b>V-1988X</b> Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	83-81	<b>V-1904</b> Std-3-15-30	VIN Code "L"; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	83-81	<b>V-1988X</b> Std-3-15	VIN Code "L"; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	80-75	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	80-75	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	80-75	<b>V-1988X</b> Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	74-69	<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	74-69	<b>V-1904</b> Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	74-69	<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	90-89	<b>V-1904B</b> Std-15	VIN Code "K"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	90-89	<b>V-1888XB15</b> 15	VIN Code "K"; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3562" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	90-89	<b>V-1988XB</b> Std-15	VIN Code "K"; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.

VALVE TRAIN

VALVE TRAIN

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# GMC Truck (Includes Minivans)

**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

VALVE TRAIN	QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Exhaust, Bulk	88-87	<b>V-1904B</b> Std-15	VIN Code "K"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	88-87	<b>V-1988XB</b> Std-15	VIN Code "K"; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	86	<b>V-1904B</b> Std-15	VIN Code "L"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	85	<b>V-1988XB</b> Std-15	VIN Code "K"; Exc. w/H5D Emis.; w/Stainless steel exh. manifold; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	85	<b>V-1904B</b> Std-15	VIN Code "L"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	85	<b>V-1988XB</b> Std-15	VIN Code "L"; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	85	<b>V-1988XB</b> Std-15	VIN Code "M"; To 12/31/84; 1st design; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	84	<b>V-1988XB</b> Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	83-81	<b>V-1904B</b> Std-15	VIN Code "L"; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	83-81	<b>V-1988XB</b> Std-15	VIN Code "L"; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	80-75	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	80-75	<b>V-1988XB</b> Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
	8	Exhaust, Bulk	74-69	<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.	
	8	Exhaust, Bulk	74-69	<b>V-1904B</b> Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.	
	8	Intake	90-89	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	88-87	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	86-81	<b>V-1927</b> Std-15	Exc. VIN Code "L"; Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	86-81	<b>V-1926</b> Std-3-15	VIN Code "L"; Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	80-75	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	80-75	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	74-73	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	74-73	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.	
	8	Intake	74-73	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	72-71	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	72-71	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.	
	8	Intake	72-71	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	70	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.	
	8	Intake	70	<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.	
	8	Intake	69	<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake	69	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.	
	8	Intake, Bulk	90-89	<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.	
	8	Intake, Bulk	88-87	<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	
	8	Intake, Bulk	86-81	<b>V-1927B</b> Std-15	Exc. VIN Code "L"; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.	

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# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Intake, Bulk	86-81	V-1926B Std-15	VIN Code "L"; Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	80-75	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	80-75	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	74-73	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	74-73	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	72-71	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	72-71	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	70	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	69	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-85	VG-1375	Exh.; Use w/replaceable exh. valve guide; Caution when removing guide w/stepped OD; .3740" ID, 2.2000" O.A.L.
8	Guide	90-69	VG-5046	Exh.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide	90-69	VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	90-69	VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-81	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	90-81	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
16	Spring	80-78	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	80-78	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
8	Spring	77-73	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	77-73	VS-677	Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-69	VS-677	Exh. & Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-69	VS-739R	Exh. & Int.; Optional-H/D; 2.0000" Free Height
16	Spring, Bulk	90-81	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	90-81	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
16	Spring, Bulk	80-78	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	80-78	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
8	Spring, Bulk	77-73	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	77-73	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-69	VS-677B	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-69	VS-739RB	Exh. & Int.; Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	84-69	MV-1903	Exh. & Int.; Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal	84-69	ST-2001	Exh. & Int.; W/.343" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	84-69	ST-2004	Exh. & Int.; W/.375" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	90-85	MV-1888C	Int.; O.E. design; Positive type; Viton®
16	Valve Stem Seal	90-69	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal	90-69	MV-1598C	Umbrella type; Rubber
8	Valve Stem Seal Bulk	90-85	MV-1888	Int.; O.E. design; Positive type; Carton of 50; Viton®
16	Valve Stem Seal Bulk	90-69	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	90-69	MV-1598	Umbrella type; Carton of 100; Rubber
16	Valve Stem Seal Bulk	84-69	ST-2004BC	Exh. & Int.; w/.375" stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	84-69	ST-2001BC	Exh. & Int.; w/11/32" valve stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Int.	90-70	245-2125-1 Std Only	Use w/V-1926; 2.1305" OD, 1.8125" ID, .2480" Depth
8	Exh.	90-69	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.	90-69	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth

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# GMC Truck (Includes Minivans)

**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44****

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-69	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-69	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-69	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-69	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	90-69	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	90-69	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	90-69	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	90-69	<b>259-203ARS</b>	.060"; Carton of 500
8	Rotocap	90-73	<b>RC-157S</b>	
<b>PISTON</b>				
8	Cast Piston	90-87	<b>423NP</b> Std-20-30-40-60-80	VIN Code "K"; Use w/E-251K, E-251KC or E-251X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	86-84	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	86-84	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	86-84	<b>423NP</b> Std-20-30-40-60-80	VIN Codes "K" & "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	85-80	<b>H618CP</b> Std-20-30-40-60	Hypereutectic; For use in RV & Perf. Appl.; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston	83-77	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	83-77	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	83-77	<b>423NP</b> Std-20-30-40-60-80	VIN Code "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	76-73	<b>423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	76-73	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	76-73	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	72-71	<b>423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston	72-71	<b>H423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	72-71	<b>H423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston	70-69	<b>345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston - Individual	90-87	<b>W423NP</b> Std-20-30-40-60-80	VIN Code "K"; Use w/WE-251K, WE-251KC or WE-251X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.

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**BOOK**

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# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual	86-84	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	86-84	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	86-84	<b>W423NP</b> Std-20-30-40-60-80	VIN Codes "K" & "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	85-80	<b>WH618CP</b> Std-20-30-40-60	Hypereutectic; For use in RV & Perf. Appl.; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Cast Piston - Individual	83-77	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	83-77	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	83-77	<b>W423NP</b> Std-20-30-40-60-80	VIN Code "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	76-73	<b>W423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	76-73	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	76-73	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	72-71	<b>W423NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Cast Piston - Individual	72-71	<b>WH423NCP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	72-71	<b>WH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
8	Cast Piston - Individual	70-69	<b>W345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
1	Cast Piston Set w/Prem. Rings	86-84	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	86-71	<b>8KH423NCP30</b> 30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	85-80	<b>8KH618CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Cast Piston Set w/Prem. Rings	83-77	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	79-69	<b>8KH618CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .125" high w/2 valve reliefs. <b>DurOshield® skirt coated piston.</b>

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# GMC Truck (Includes Minivans)

**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44****

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	76-73	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	72-71	<b>8KH423NP</b> Std-20-30-40-60	Perf. or reg. duty operation; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings	90-87	<b>8X423NP20</b> 20-30-40-60	VIN Code "K"; Use w/E-251K, E-251KC or E-251X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	86-84	<b>8X423NP20</b> 20-30-40-60	VIN Codes "K" & "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	83-77	<b>8X423NP20</b> 20-30-40-60	VIN Code "L"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	76-73	<b>8X423NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	72-71	<b>8X423NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings	70-69	<b>8X345NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Powerforged	90-89	<b>L-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/E-251K, E-251KC or E-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	88	<b>L-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/E-251K, E-251KC or E-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	87	<b>L-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/E-251K, E-251KC or E-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	86-85	<b>L-2403NF</b> Std-20-30-40-60	VIN Codes "K", "L" & "M"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85-80	<b>L-2304F</b> Std-30-60	For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	85-80	<b>L-2256F</b> Std-20-30-40-60	For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	84-77	<b>L-2403NF</b> Std-20-30-40-60	VIN Code "L"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	76-73	<b>L-2403NF</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	72-71	<b>L-2403NF</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	70-69	<b>L-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	90-89	<b>WL-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/WE-251K, WE-251KC or WE-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	88	<b>WL-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/WE-251K, WE-251KC or WE-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	87	<b>WL-2403NF</b> Std-20-30-40-60	VIN Code "K"; w/o H/D Emis.; Use w/WE-251K, WE-251KC or WE-251X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>

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**B  
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# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Forged Piston - Individual	86-85	<b>WL-2403NF</b> Std-20-30-40-60	VIN Codes "K", "L" & "M"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	85-80	<b>WL-2304F</b> Std-30-60	For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Domed Head .100" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	85-80	<b>WL-2256F</b> Std-20-30-40-60	For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	84-77	<b>WL-2403NF</b> Std-20-30-40-60	VIN Code "L"; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	76-73	<b>WL-2403NF</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	72-71	<b>WL-2403NF</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	70-69	<b>WL-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	85-80	<b>8KL2256F30</b> 30-40-60	For use in RV Appl.; For use in Perf. Appl.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	79-71	<b>8KL2256F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings	70-69	<b>8KL2256F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Pin	90-69	<b>P-2208</b> Std-3-5-0015	Use w/L-2256F or L-2403NF piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	<b>E-377K</b> Std-20-30-40	.165" shallow oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-87	<b>E-251K</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	90-87	<b>E-251KC</b> Std-10-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Premium Set	86-69	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	86-69	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	86-69	<b>R-9903</b> Std-20-30-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-87	<b>E-377X</b> Std-30-40	.165" shallow oil ring groove; 2-5/64, 1-3/16
1	Standard Set	90-87	<b>E-251X</b> Std-10-20-30-40-60-80	.200" deep oil ring groove; 2-5/64, 1-3/16
1	Standard Set	86-69	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-377K</b> Std-20-30	.165" shallow oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-251K</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-87	<b>WE-251KC</b> Std-20-30-40-60	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	86-69	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	86-69	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-87	<b>WE-377X</b> Std-30	.165" shallow oil ring groove; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-87	<b>WE-251X</b> Std-20-30-40-60-80	.200" deep oil ring groove; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	86-69	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
8	Repair Sleeve	90-69	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
8	Repair Sleeve	90-69	<b>SL-350M</b> Std Only	3/32" wall, cut to length; Press fit sleeve
8	Repair Sleeve	90-69	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-69	<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set	90-69	<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set	90-69	<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set	90-69	<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings; .010" O/S length flange brg.</b>
1	Main Set	90-69	<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings; w/.020" O/S OD</b>
1	Rod Set	90-69	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	90-69	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set	90-69	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy

(continued on next page)



# GMC Truck (Includes Minivans)

**5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44****

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
BLOCK	1	Rod Set	90-69	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
	1	Rod Set	90-69	<b>8-2555CA60</b> 60	Unplated & resizeable
	8	Rod Pair	90-69	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair	90-69	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8	Rod Pair	90-69	<b>2555CA60</b> 60	Unplated & resizeable
	1	Cam Set	90-69	<b>1235M</b> Std-1-10	Babbitt material; Full round design
	1	Cam Set	90-69	<b>1749M</b> Std Only	Bi-Metal Aluminum
	1	Cam Set	90-69	<b>1811M</b> Std Only	Race Performance; "Big Block"; Split type design, 2.120" housing bore
	1	Cam Set	90-69	<b>1750M</b> Std Only	2.030" housing bore
	BLOCK	1	Oil Pump	90	<b>224-43469V</b>
1		Oil Pump	90-69	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
1		Oil Pump	90-69	<b>224-4146</b>	5/8" inlet
1		Inter. Shaft	90-69	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
1		Inter. Shaft	90-69	<b>224-6146</b>	Use w/nylon shaft guide
1		Oil Pump Shaft Guide	90-69	<b>224-43343</b>	Nylon
1		Screen Assy.	90-89	<b>224-1346</b>	C20, C25, C30, C35, G30 & G35; w/5 qt. oil pan; 5/8" inlet tube
1		Screen Assy.	90-89	<b>224-1246</b>	Exc. C20, C25, C30, C35, G30, G35; w/5 qt. oil pan; 5/8" inlet tube
1		Screen Assy.	88-84	<b>224-1246</b>	5/8" inlet tube
1		Screen Assy.	83-80	<b>224-1246</b>	VIN Code "M"; 5/8" inlet tube
1		Screen Assy.	83-80	<b>224-1346</b>	VIN Code "P"; 5/8" inlet tube
1		Screen Assy.	79-73	<b>224-1246</b>	5/8" inlet tube
1		Screen Assy.	72-71	<b>224-1146</b>	Exc. G10, G15, G20, G25, G30 & G35; Exc. El Camino & Sprint; 5/8" inlet
1		Screen Assy.	72-71	<b>224-1246</b>	G Series, El Camino & Sprint; 5/8" inlet tube
1		Screen Assy.	70-69	<b>224-1246</b>	El Camino; 5/8" inlet tube
1	Screen Assy.	70-69	<b>224-1146</b>	Exc. El Camino; 5/8" inlet	
BLOCK	1	Kit Gasket Set	90-87	<b>260-1269</b>	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	90-87	<b>260-1269</b>	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gsks. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	88-87	<b>260-1268</b>	VIN Code "M"; C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.
	1	Kit Gasket Set	88-87	<b>260-1268</b>	VIN Code "M"; Exc. C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	86	<b>260-1268</b>	C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.
	1	Kit Gasket Set	86	<b>260-1268</b>	Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.
	1	Kit Gasket Set	85-81	<b>260-1045</b>	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85-81	<b>260-1045</b>	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.
	1	Kit Gasket Set	80	<b>260-1045</b>	Premium valve stem seals incl.
	1	Kit Gasket Set	79-69	<b>260-1000</b>	
1	Head Bolt Set	90-69	<b>260-2500</b>		
BLOCK	1	Brass Block Plug Kit	90-86	<b>381-8059</b>	
	1	Brass Block Plug Kit	85-69	<b>381-8007</b>	
	1	Steel Block Plug Kit	90-69	<b>381-4011</b>	
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION

(continued on next page)

# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	RE-RING KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6038</b> <b>205-6038M</b>
90-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6038</b> <b>205-6038M</b>	<b>205-1038</b> <b>205-1038M</b>
90-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6156</b> <b>205-6156M</b>	<b>205-1156</b> <b>205-1156M</b>
90-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-6156</b> <b>205-6156M</b>	<b>205-1156</b> <b>205-1156M</b>
88-87	VIN Code "M"; C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6037</b> <b>205-6037M</b>	<b>205-1037</b> <b>205-1037M</b>
88-87	VIN Code "M"; Exc. C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6037</b> <b>205-6037M</b>	<b>205-1037</b> <b>205-1037M</b>
88-87	VIN Code "M"; C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6153</b> <b>205-6153M</b>	<b>205-1153</b> <b>205-1153M</b>
88-87	VIN Code "M"; Exc. C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6153</b> <b>205-6153M</b>	<b>205-1153</b> <b>205-1153M</b>
86	C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6037</b> <b>205-6037M</b>	<b>205-1037</b> <b>205-1037M</b>
86	Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	<b>205-6037</b> <b>205-6037M</b>	<b>205-1037</b> <b>205-1037M</b>
85-81	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-658</b> <b>205-658M</b>	<b>205-158</b> <b>205-158M</b>
85-81	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-658</b> <b>205-658M</b>	<b>205-158</b> <b>205-158M</b>
80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-658</b> <b>205-658M</b>	<b>205-158</b> <b>205-158M</b>

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.)  
1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V"  
1973-76, "Y" 1973-75

	RE-RING KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	
K I T S	<b>YEARS</b>	<b>DESCRIPTION</b>			
	79-69	Incl. <b>A-Series aluminum bearings</b>	Re-ring Re-ring w/Mains	205-630 205-630M 205-130 205-130M	
	<b>OVERHAUL KIT</b>				
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-6038A</b>	<b>MK-1038A</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings	<b>MKF-6038A</b>	----
	90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-6038A</b>	<b>MK-1038A</b>
	90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings	<b>MKF-6038A</b>	----
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-6038C</b>	<b>MK-1038C</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	<b>MKF-6038C</b>	----
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-6038C</b>	<b>MK-1038C</b>	
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	<b>MKF-6038C</b>	----	
90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	<b>MK-6038D</b>	<b>MK-1038D</b>	

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# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038D	----
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	MK-6038D	MK-1038D
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038D	----
90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6156A	MK-1156A
90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6156A	MKP-1156A
90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6156A	505-1156A
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6156A	MK-1156A
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6156A	MKP-1156A
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6156A	505-1156A

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

	<b>OVERHAUL KIT (cont.)</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>		
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons <b>MK-6156C</b>	<b>MK-1156C</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master <b>MKP-6156C</b>	<b>MKP-1156C</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Rods & Mains <b>505-6156C</b>	<b>505-1156C</b>
	90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons <b>MK-6156C</b>	<b>MK-1156C</b>
	90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master <b>MKP-6156C</b>	<b>MKP-1156C</b>
	90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Rods & Mains <b>505-6156C</b>	<b>505-1156C</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons <b>MK-6156D</b>	<b>MK-1156D</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master <b>MKP-6156D</b>	<b>MKP-1156D</b>
	90-89	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains <b>505-6156D</b>	<b>505-1156D</b>

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# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6156D	MK-1156D
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-6156D	MKP-1156D
90-89	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6156D	505-1156D
90-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 423NP piston	Block	BK-6084	----
90-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 423NP piston	Block w/Pump & Freeze Plugs	BKP-6084	----
90-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 423NP piston	Block	BK-6084	----
90-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 423NP piston	Block w/Pump & Freeze Plugs	BKP-6084	----
88-87	VIN Code "M"; C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6037A	MK-1037A
88-87	VIN Code "M"; Exc. C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6037A	MK-1037A
88-87	VIN Code "M"; C2500, C3500, K2500, K3500; PermaDry® molded rubber oil pan gskt. incl.; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6037C	MK-1037C

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.)  
1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V"  
1973-76, "Y" 1973-75

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	88-87	VIN Code "M"; Exc. C2500, C3500, K2500, K3500; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6037C	MK-1037C
	88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6038A	MK-1038A
	88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038A	----
	88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6038A	MK-1038A
	88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038A	----
	88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6038C	MK-1038C
	88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-6038C	----
	88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6038C	MK-1038C
	88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-6038C	----

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# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	MK-6038D	MK-1038D
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038D	----
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.200" deep oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	MK-6038D	MK-1038D
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. L2403NF piston; w/o H/D Emis.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6038D	----
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6156A	MK-1156A
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6156A	MKP-1156A
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6156A	505-1156A
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6156A	MK-1156A
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6156A	MKP-1156A

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

	<b>OVERHAUL KIT (cont.)</b>			
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6156A	505-1156A
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	MK-6156C	MK-1156C
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master	MKP-6156C	MKP-1156C
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Rods & Mains	505-6156C	505-1156C
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Pistons	MK-6156C	MK-1156C
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master	MKP-6156C	MKP-1156C
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. single rlr. type chain; w/.280" tooth width sprocket	Master w/o Rods & Mains	505-6156C	505-1156C
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6156D	MK-1156D
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-6156D	MKP-1156D

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# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
88-87	VIN Code "K"; C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Exh. valve stem seals not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6156D	505-1156D
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; w/.165" shallow oil ring groove; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6156D	MK-1156D
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-6156D	MKP-1156D
88-87	VIN Code "K"; Exc. C20, G20, K20, C2500, G2500, K2500, C30, G30, K30, C3500, G3500, K3500; Exh. pipe packing not incl.; Incl. 423NP piston; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6156D	505-1156D
86	C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6037A	MK-1037A
86	Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-6037A	MK-1037A
86	VIN Codes "K" & "L"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6037A	MKP-1037A
86	VIN Codes "K" & "L"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6037A	505-1037A
86	VIN Codes "K" & "L"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-6037A	MKP-1037A
86	VIN Codes "K" & "L"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-6037A	505-1037A
86	VIN Codes "K", "L" & "M"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. L2403NF Piston; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6037A	----
86	VIN Codes "K", "L" & "M"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. L2403NF Piston; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-6037A	----

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.)  
1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V"  
1973-76, "Y" 1973-75

K I T S	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION			
	86	C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6037C	MK-1037C
	86	Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-6037C	MK-1037C
	86	VIN Codes "K" & "L"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-6037C	MKP-1037C
	86	VIN Codes "K" & "L"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6037C	505-1037C
	86	VIN Codes "K" & "L"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-6037C	MKP-1037C
	86	VIN Codes "K" & "L"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-6037C	505-1037C
	86	VIN Codes "K", "L" & "M"; C20, C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; Exh. valve stem seals not incl.; PermaDry® molded rubber oil pan gskt. incl.; Incl. L2403NF Piston; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	MKF-6037C	----
	86	VIN Codes "K", "L" & "M"; Exc. C25, C30, C35, G20, G25, G30, G35, K20, K25, K30, K35, P20, P25, P30, P35; PermaDry® molded rubber oil pan gskt. incl.; Incl. L2403NF Piston; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	MKF-6037C	----
	85	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-658A	MK-158A
	85	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-658A	MK-158A
	85	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-658A	MKP-158A
	85	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-658A	505-158A
	85	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	MKP-658A	MKP-158A

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# GMC Truck (Includes Minivans)

## 44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69

(cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
85	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	505-658A	505-158A
85	VIN Codes "K", "L" & "M"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----
85	VIN Codes "K", "L" & "M"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----
85	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-658C	MK-158C
85	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	MK-658C	MK-158C
85	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-658C	MKP-158C
85	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-658C	505-158C
85	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	MKP-658C	MKP-158C
85	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	505-658C	505-158C
85	VIN Codes "K", "L" & "M"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-658C	----
85	VIN Codes "K", "L" & "M"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings	MKF-658C	----
84	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-658A	MK-158A
84	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-658A	MK-158A
84	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----
84	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings	MKF-658A	----

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

K I T S	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>
	84	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-658A</b>	<b>MKP-158A</b>
	84	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-658A</b>	<b>505-158A</b>
	84	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-658A</b>	<b>MKP-158A</b>
	84	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains	<b>505-658A</b>	<b>505-158A</b>
	84	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-658C</b>	<b>MK-158C</b>
	84	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-658C</b>	<b>MK-158C</b>
	84	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	<b>MKF-658C</b>	----
	84	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings	<b>MKF-658C</b>	----
	84	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	<b>MKP-658C</b>	<b>MKP-158C</b>
	84	VIN Codes "K" & "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	<b>505-658C</b>	<b>505-158C</b>
	84	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	<b>MKP-658C</b>	<b>MKP-158C</b>
	84	VIN Codes "K" & "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Rods & Mains	<b>505-658C</b>	<b>505-158C</b>
	83	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-658A</b>	<b>MK-158A</b>
	83	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-658A</b>	<b>MK-158A</b>

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# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.)		PREMIUM KIT NO.	ECONOMY KIT NO.
	DESCRIPTION			
83	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-658A</b>	<b>MKP-158A</b>
83	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-658A</b> <b>505-658A</b>	----- <b>505-158A</b>
83	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-658A</b>	<b>MKP-158A</b>
83	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-658A</b> <b>505-658A</b>	----- <b>505-158A</b>
83	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-658C</b>	<b>MK-158C</b>
83	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-658C</b>	<b>MK-158C</b>
83	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	<b>MKP-658C</b>	<b>MKP-158C</b>
83	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-658C</b> <b>505-658C</b>	----- <b>505-158C</b>
83	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	<b>MKP-658C</b>	<b>MKP-158C</b>
83	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-658C</b> <b>505-658C</b>	----- <b>505-158C</b>
82-81	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-658A</b>	<b>MK-158A</b>
82-81	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-658A</b>	<b>MK-158A</b>
82-81	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-658A</b>	<b>MKP-158A</b>
82-81	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-658A</b> <b>505-658A</b>	----- <b>505-158A</b>

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# GMC Truck (Includes Minivans)

5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69 **44**

**L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" (cont.) 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75**

	<b>OVERHAUL KIT (cont.)</b>			
<b>K I T S</b>	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	82-81	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master <b>MKP-658A</b>	<b>MKP-158A</b>
	82-81	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-658A</b> <b>505-658A</b>	----- <b>505-158A</b>
	82-81	C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons <b>MK-658C</b>	<b>MK-158C</b>
	82-81	Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons <b>MK-658C</b>	<b>MK-158C</b>
	82-81	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master <b>MKP-658C</b>	<b>MKP-158C</b>
	82-81	VIN Code "L"; C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Exh. valve stem seals not incl.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-658C</b> <b>505-658C</b>	----- <b>505-158C</b>
	82-81	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master <b>MKP-658C</b>	<b>MKP-158C</b>
	82-81	VIN Code "L"; Exc. C20, G20, K20, C25, G25, K25, C30, G30, K30, C35, G35, K35; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-658C</b> <b>505-658C</b>	----- <b>505-158C</b>
	80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons <b>MK-658A</b>	<b>MK-158A</b>
	80	VIN Code "L"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master <b>MKP-658A</b>	<b>MKP-158A</b>
	80	VIN Code "L"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-658A</b> <b>505-658A</b>	----- <b>505-158A</b>
	80	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons <b>MK-658C</b>	<b>MK-158C</b>
	80	VIN Code "L"; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master <b>MKP-658C</b>	<b>MKP-158C</b>
	80	VIN Code "L"; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-658C</b> <b>505-658C</b>	----- <b>505-158C</b>
	79-77	VIN Code "L"; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master <b>MKP-630C</b>	<b>MKP-130C</b>
	79-77	VIN Code "L"; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-630C</b> <b>505-630C</b>	----- <b>505-130C</b>
	79-77	VIN Code "L"; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master <b>MKP-630F</b>	<b>MKP-130F</b>
	79-77	VIN Code "L"; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains <b>MKF-630F</b> <b>505-630F</b>	----- <b>505-130F</b>
	79-75	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons <b>MK-630C</b>	<b>MK-130C</b>

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# GMC Truck (Includes Minivans)

**44 5.7L 350 OHV V8 (Chevrolet), 4" Bore 1990-69**  
 (cont.) L/D Truck VIN Codes "A" 1971, "B" 1971, "E" 1969-72 & 1984, "H" 1972-75, "J" 1972, "K" 1971-73, "K" 1983-86 (LPG), "K" 1987-96, "L" 1972-86, "M" 1979-88, "P" 1980-83, "R" 1996-2002 (Vortec), "V" 1973-76, "Y" 1973-75

YEARS	OVERHAUL KIT (cont.) DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	79-75	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-630F</b>
76-75	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-630C</b>	<b>MKP-130C</b>
76-75	Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630C</b> <b>505-630C</b>	----- <b>505-130C</b>
76-75	Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master	<b>MKP-630F</b>	<b>MKP-130F</b>
76-75	Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630F</b> <b>505-630F</b>	----- <b>505-130F</b>
74	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-630C</b> <b>MK-630C</b>	<b>MKP-130C</b> <b>MK-130C</b>
74	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630C</b> <b>505-630C</b>	----- <b>505-130C</b>
74	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master Master w/o Pistons	<b>MKP-630F</b> <b>MK-630F</b>	<b>MKP-130F</b> <b>MK-130F</b>
74	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630F</b> <b>505-630F</b>	----- <b>505-130F</b>
73	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-630C</b> <b>MK-630C</b>	<b>MKP-130C</b> <b>MK-130C</b>
73	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630C</b> <b>505-630C</b>	----- <b>505-130C</b>
73	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master Master w/o Pistons	<b>MKP-630F</b> <b>MK-630F</b>	<b>MKP-130F</b> <b>MK-130F</b>
73	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630F</b> <b>505-630F</b>	----- <b>505-130F</b>
72-71	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons	<b>MKP-630C</b> <b>MK-630C</b>	<b>MKP-130C</b> <b>MK-130C</b>
72-71	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630C</b> <b>505-630C</b>	----- <b>505-130C</b>
72-71	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master Master w/o Pistons	<b>MKP-630F</b> <b>MK-630F</b>	<b>MKP-130F</b> <b>MK-130F</b>
72-71	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630F</b> <b>505-630F</b>	----- <b>505-130F</b>
70-69	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	<b>MK-630C</b>	<b>MK-130C</b>
70-69	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master	<b>MKP-630D</b>	<b>MKP-130D</b>
70-69	Exc. Calif. Emis.; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Mster w/Frg. Pstn. Prm. Rings Master w/o Rods & Mains	<b>MKF-630D</b> <b>505-630D</b>	----- <b>505-130D</b>
70-69	Exc. Calif. Emis.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons	<b>MK-630F</b>	<b>MK-130F</b>

**45 5.7L 350 OHV LPG V8 (Chevrolet), 4" Bore 1976-69**  
 L/D Truck VIN Code "W" 1973-76 (LPG)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	74-69	<b>KT3-499S</b>	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Chain	74-69	<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	74-69	<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	74-69	<b>223-390</b>	.405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	74-69	<b>223-390N</b>	Nylon; .405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-69	<b>CS-274</b>	
16	Lifter	76-69	<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk	76-69	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube	76-69	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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# GMC Truck (Includes Minivans)

**5.7L 350 OHV LPG V8 (Chevrolet), 4" Bore 1976-69 45**  
**L/D Truck VIN Code "W" 1973-76 (LPG) (cont.)**

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	76-69	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-69	<b>KCT-274</b>	Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	76-69	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	76-69	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	76-69	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	76-69	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	76-69	<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk	76-69	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	76-69	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	76-69	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm Assy.	76-69	<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk	76-69	<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm	76-69	<b>R-826A</b>	
16	Pivot Ball	76-69	<b>MR-1783</b>	
16	Pivot Ball	76-69	<b>MR-1822</b>	H/D 4 groove ball
16	Nut	76-69	<b>MR-1751</b>	Self-locking, 3/8" x 24 threads
16	Stud	76-69	<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	76-69	<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	76-75	<b>V-1988X</b> Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	74-69	<b>V-1888X</b> Std-15	1st design; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	74-69	<b>V-1988X</b> Std-3-15	2nd design; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	76-75	<b>V-1988XB</b> Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	74-69	<b>V-1988XB</b> Std-15	2nd design; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Intake	76-69	<b>V-1928</b> Std Only	Chrome plated stem; 1.7200" Head Dia., .3420" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	76-69	<b>VG-5046</b>	Exh.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide	76-69	<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk	76-69	<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	76-73	<b>VS-727</b>	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	76-73	<b>VS-677</b>	Int.; Incl. damper; 2.0300" Free Height
16	Spring	72-69	<b>VS-677</b>	Exh. & Int.; Incl. damper; 2.0300" Free Height
8	Spring, Bulk	76-73	<b>VS-727B</b>	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	76-73	<b>VS-677B</b>	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk	72-69	<b>VS-677B</b>	Exh. & Int.; Incl. damper; Carton of 250; 2.0300" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	76-69	<b>MV-1903</b>	Use w/repair guide; w/.371" stem dia.; Positive type; Rubber
16	Valve Stem Seal	76-69	<b>ST-2004</b>	Use w/O.E. guide; w/.371" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	76-69	<b>ST-2001</b>	Exh.; Use w/O.E. guide; w/.343" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal Bulk	76-69	<b>ST-2004BC</b>	Use w/O.E. guide; w/.371" stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	76-69	<b>ST-2001BC</b>	Exh.; Use w/O.E. guide; w/.343" stem dia.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	76-69	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	76-69	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	76-69	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	76-69	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	76-69	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	76-69	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	76-69	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	76-69	<b>259-203ARS</b>	.060"; Carton of 500

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# GMC Truck (Includes Minivans)

## 45 5.7L 350 OHV LPG V8 (Chevrolet), 4" Bore 1976-69

(cont.) L/D Truck VIN Code "W" 1973-76 (LPG)

QTY	PART NO.	YEARS	DESCRIPTION	
8	399P30 30-40	76-69	Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/2 valve reliefs - 9.0:1 C.R.	
8	W399P30 30-40	76-69	Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/2 valve reliefs - 9.0:1 C.R.	
QTY	PART NO.	YEARS	DESCRIPTION	
1	E-251K Std-10-20-30-40-60	76-69	2-5/64, 1-3/16	
1	E-251X Std-10-20-30-40-60-80	76-69	2-5/64, 1-3/16	
8	WE-251K Std-20-30-40-60	76-69	2-5/64, 1-3/16	
8	WE-251X Std-20-30-40-60-80	76-69	2-5/64, 1-3/16	
QTY	PART NO.	YEARS	DESCRIPTION	
8	SL-22Y Std Only	76-69	1/8" wall, must be cut to correct length; O.A.L. 10.250"	
8	SL-350M Std Only	76-69	3/32" wall, cut to length; Press fit sleeve	
8	SL-22M Std Only	76-69	3/32" wall, must be cut to correct length; O.A.L. 10.250"	
QTY	PART NO.	YEARS	DESCRIPTION	
1	4663M Std-1-2-10-20-30-40-60	76-69	.020" O/S length flange brg.	
1	6688M10 10-20-30	76-69	A-Series aluminum bearings	
1	4663MA Std-1-2-10-20-30-40-60	76-69	A-Series aluminum bearings; .010" O/S length flange brg.	
1	7329MA10 10-20-30	76-69	A-Series aluminum bearings	
1	8-2555A Std-1-2-10-20-30-40-50-60	76-69	A-Series aluminum bearings	
1	8-2555A10X2 10X2-20X2-30X2-40X2	76-69	A-Series aluminum bearings; Use in .002" O/S Rod Bore	
1	8-2555CP10X2 10X2-20X2-40X2	76-69	Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
1	8-2555CP Std-1-2-10-20-30-40-50	76-69	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
1	8-2555CA60 60	76-69	Unplated & resizeable	
8	2555A Std-1-2-10-20-30-40-50-60	76-69	A-Series aluminum bearings	
8	2555CP Std-1-2-10-20-30-40-50	76-69	Overplated copper-lead alloy	
8	2555CA60 60	76-69	Unplated & resizeable	
1	1235M Std-1-10	76-69	Babbitt material; Full round design	
1	1749M Std Only	76-69	Bi-Metal Aluminum	
1	1750M Std Only	76-69	2.030" housing bore	
QTY	PART NO.	YEARS	DESCRIPTION	
1	224-4143	76-69	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
1	224-4146	76-69	5/8" inlet	
1	224-6146E	76-69	Has steel shaft guide; Eliminates nylon shaft guide	
1	224-6146	76-69	Use w/nylon shaft guide	
1	224-43343	76-69	Nylon	
1	224-1146	76-69	5/8" inlet	
QTY	PART NO.	YEARS	DESCRIPTION	
1	260-1000	76-69	Int. manifold gskts. not incl.	
1	260-2500	76-69		
QTY	PART NO.	YEARS	DESCRIPTION	
1	381-8007	76-69		
1	381-4011	76-69		
RE-RING KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
76-69	Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings	Re-ring Re-ring w/Mains	205-630 205-630M	205-130 205-130M
OVERHAUL KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
74-69	Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Pistons	MK-630C	MK-130C

## 46 5.7L 350 OHV Diesel V8 (Oldsmobile), 4.057" Bore 1984-78

L/D Truck VIN Codes "N" 1983-84, "Z" 1978-81

QTY	PART NO.	YEARS	DESCRIPTION
1	KT3-180S	84-83	Cam & crank gears not sold separately; Incl. (1) 222-180, (1) 223-498, (1) 223-503
1	KT3-180S	81-78	Cam & crank gears not sold separately; Incl. (1) 222-180, (1) 223-498, (1) 223-503
1	222-180	84-83	48 Links
1	222-180	81-78	48 Links

(continued on next page)

# GMC Truck (Includes Minivans)

**5.7L 350 OHV Diesel V8 (Oldsmobile), 4.057" Bore 1984-78 46**  
**L/D Truck VIN Codes "N" 1983-84, "Z" 1978-81 (cont.)**

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	81-80	HT-2104 Std Only	Hyd. rlr.
16	Lifter, Bulk	81-80	HT-2104B Std Only	Hyd. rlr.; Carton of 113
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	84-83	RP-3244	w/rlr. lifters; 7.7000" O.A.L.
16	Push Rod	80	RP-3205	8.2480" O.A.L.
16	Push Rod	79-78	RP-3174	8.2340" O.A.L.
16	Push Rod, Bulk	84-83	BRP-3244	w/rlr. lifters; Carton of 100; 7.7000" O.A.L.
16	Push Rod, Bulk	80	BRP-3205	Carton of 100; 8.2480" O.A.L.
16	Push Rod, Bulk	79-78	BRP-3174	Carton of 100; 8.2340" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	81-80	R-882	Incl. 2-arms, 2-pivots & 1-pivot bridge
8	Arm Assy.	79-78	R-856	Incl. 2-arms & 1-pivot assy.
8	Arm Assy., Bulk	81-80	R-882B	Incl. 2-arms, 2-pivots & 1-pivot bridge; Carton of 32
8	Arm Assy., Bulk	79-78	R-856B	Incl. 2-arms & 1-pivot assy.; Carton of 64
16	Arm	81-80	R-882A	
16	Arm	79-78	R-856A	
16	Arm, Bulk	81-80	R-882AB	Carton of 64
8	Pivot	81-78	MR-1903	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	81-78	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	81-78	MV-1819C	Int.; Umbrella type; Nylon
16	Valve Stem Seal Bulk	81-78	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
8	Valve Stem Seal Bulk	81-78	MV-1819	Int.; Umbrella type; Carton of 50; Nylon
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	84-83	245-1687-16 Std Only	1.6925" OD, 1.4375" ID, .1860" Depth
8	Int.	84-83	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
8	Exh.	81-78	245-1687-16 Std Only	1.6925" OD, 1.4375" ID, .1860" Depth
8	Int.	81-78	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	84-83	VK-115	1 groove; Square cut key groove
32	Keeper	84-83	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	81-78	VK-115	1 groove; Square cut key groove
32	Keeper	81-78	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	84-83	VK-115B	1 groove; Square cut key groove; Carton of 1000
32	Keeper, Bulk	81-78	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	81-78	259-303C	.015"; ID .703"; Carton of 100
16	Spring Insert	81-78	259-303B	.030"; ID .703"; Carton of 100
16	Spring Insert	81-78	259-303A	.060"; ID .703"; Carton of 100
16	Spring Insert	81-78	259-303ARS	.060"; ID .703"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Pin Bushing	81-78	2564V20	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-83	4294M Std-1-10-20-30	
1	Main Set	81-78	4294M Std-1-10-20-30	
1	Rod Set	84-83	8-3045A Std-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	84-83	8-3045A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set	84-83	8-3045APA Std-1	Overplated alum. alloy
1	Rod Set	84-83	8-3045APA10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy
1	Rod Set	81-78	8-3045A Std-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set	81-78	8-3045A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set	81-78	8-3045APA Std-1	Overplated alum. alloy
1	Rod Set	81-78	8-3045APA10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore; Overplated alum. alloy
8	Rod Pair	84-83	3045A Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
8	Rod Pair	84-83	3045APA Std Only	Overplated alum. alloy
8	Rod Pair	81-78	3045A Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
8	Rod Pair	81-78	3045APA Std Only	Overplated alum. alloy
1	Cam Set	84-83	1466M Std Only	Full round design
1	Cam Set	84-83	1787M Std Only	O.E. split type design
1	Cam Set	81-78	1466M Std Only	Full round design
1	Cam Set	81-78	1787M Std Only	O.E. split type design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	81-78	224-41203V	High Volume, check pan for clearance; Use w/224-11203V screen

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

# GMC Truck (Includes Minivans)

## 46 5.7L 350 OHV Diesel V8 (Oldsmobile), 4.057" Bore 1984-78

(cont.) L/D Truck VIN Codes "N" 1983-84, "Z" 1978-81

BLOCK	QTY	OIL PUMP (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Inter. Shaft	81-78	224-61203	
	1	Screen Assy.	81-78	224-11203V	Bolt-on 3/4" tube; Use w/224-41203V pump
	1	Screen Assy.	81-78	224-11203	5/8" inlet tube
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	84-83	260-1249	w/Internal EGR; Premium valve stem seals incl.; Head gskts. not incl.
	1	Kit Gasket Set	84-83	260-1617	Int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. std. thickness head gskts.
	1	Kit Gasket Set	81	260-1249	w/Internal EGR; Premium valve stem seals incl.; Head gskts. not incl.
	1	Kit Gasket Set	81-78	260-1617	Int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. std. thickness head gskts.
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	81-78	381-8020		
1	Steel Block Plug Kit	81-78	381-4020		

## 47 5.7L 351 OHV V6 (GMC), 4.5625" Bore 1968-65

L/D Truck 351, 351C, 351E, 351M Engs.

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Crank Sprocket	68-65	223-377	24 Teeth
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	12	Push Rod	68-65	RP-3099	7.9890" O.A.L.
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	6	Guide	68-65	VG-5036	Int.; .3740" ID, 2.7500" O.A.L.
	6	Guide, Bulk	68-65	VG-5036B	Int.; .3740" ID, 2.7500" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	6	Valve Stem Seal	68-66	ST-2007	Exh.; Positive type; Rubber
	6	Valve Stem Seal	68-66	ST-2002	Int.; Installation requires valve guide machining; Polyacrylate
6	Valve Stem Seal	68-66	MV-1233C	Int.; O-Ring; Rubber	
6	Valve Stem Seal Bulk	68-66	ST-2007BC	Exh.; Positive type; Carton of 100; Rubber	
6	Valve Stem Seal Bulk	68-66	MV-1233	Int.; O-Ring; Carton of 100; Rubber	
6	Valve Stem Seal Bulk	68-66	ST-2002BC	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	68-65	VK-115	1 groove; Square cut key groove	
24	Keeper	68-65	VK-115R	1 groove; Square cut key groove; Hardened	
24	Keeper, Bulk	68-65	VK-115B	1 groove; Square cut key groove; Carton of 1000	

BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Pin Bushing	68-65	2404Y20	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	68-65	4067MA Std-10	<b>A-Series aluminum bearings;</b> Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process
	6	Rod Pair	68-65	2400P Std-10-20-30	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process
	1	Cam Set	68-65	1198M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	68-65	224-41154	3/8" dia. mounting holes; Governor spinner not incl., Re-use original if req'd.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	68-65	381-8019		

## 48 6.0L 366 OHV V8 (Chevrolet), 3.9375" Bore 1967-66

L/D Truck

BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	67-66	260-1009	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	67-66	381-8009		
1	Steel Block Plug Kit	67-66	381-4017		

# GMC Truck (Includes Minivans)

**6.2L 379 (6211cc) OHV Diesel V8 (Chevrolet), 101mm Bore 1990-82 49**  
**L/D Truck VIN Codes "C" 1982-93 (L/D), "J" 1982-93 (H/D)**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-82	<b>KT3-181S</b>	Incl. (1) 222-181, (1) 223-375, (1) 223-524
1	Timing Chain	90-82	<b>222-181</b>	48 Links
1	Crank Sprocket	90-82	<b>223-375</b>	18 Teeth
1	Cam Sprocket	90-82	<b>223-524</b>	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-82	<b>CS-770</b>	
16	Lifter	90-82	<b>HT-2104</b> Std Only	Hyd. rlr.
16	Lifter, Bulk	90-82	<b>HT-2104B</b> Std Only	Hyd. rlr.; Carton of 113
1	Prelube	90-82	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-82	<b>KC-770</b>	Hyd. rlr.; Incl. (1) CS-770, (16) HT-2104, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-82	<b>RP-3342</b>	8.8215" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-85	<b>R-950D</b>	Incl. arm; Incl. retainer
16	Arm	90-85	<b>R-950</b>	Stamped steel
2	Rocker Shaft	90-85	<b>RS-676</b>	w/late style stamped steel rockers
8	Rocker Bushing	88-85	<b>3863Y</b>	Use w/Cast iron rockers & OE shaft
16	Retainer	90-85	<b>MR-1948</b>	w/late style stamped steel rockers
16	Retainer, Bulk	90-85	<b>MR-1948B</b>	w/late style stamped steel rockers; Carton of 1000
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-88	<b>V-4491X</b> Std Only	VIN Code "C"; Chrome plated stem; 1.5350" Head Dia., .3718" Stem Dia., 5.1120" O.A.L.
8	Exhaust	90-88	<b>V-2288X</b> Std Only	VIN Code "J"; Chrome plated stem; 1.4960" Head Dia., .3719" Stem Dia., 5.1080" O.A.L.
8	Exhaust	87	<b>V-2288X</b> Std Only	VIN Code "J"; Chrome plated stem; 1.4960" Head Dia., .3719" Stem Dia., 5.1080" O.A.L.
8	Exhaust	86-85	<b>V-2288X</b> Std Only	VIN Code "J"; Chrome plated stem; 1.4960" Head Dia., .3719" Stem Dia., 5.1080" O.A.L.
8	Exhaust	84	<b>V-2288X</b> Std Only	VIN Code "J"; Chrome plated stem; 1.4960" Head Dia., .3719" Stem Dia., 5.1080" O.A.L.
8	Intake	86-84	<b>V-2287</b> Std Only	Chrome plated stem; 1.8110" Head Dia., .3413" Stem Dia., 5.1080" O.A.L.
8	Intake	83-82	<b>V-2287</b> Std Only	VIN Code "C"; Chrome plated stem; 1.8110" Head Dia., .3413" Stem Dia., 5.1080" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-82	<b>VG-5052T</b>	Int.; Threaded; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-82	<b>VS-820</b>	2.0350" Free Height
16	Spring, Bulk	90-82	<b>VS-820B</b>	Carton of 250; 2.0350" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-82	<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk	90-82	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-88	<b>245-1562-36</b> Std Only	Use w/V-2288X; 1.5670" OD, 1.3125" ID, .1860" Depth
8	Int.	90-87	<b>245-2000-22</b> Std Only	2.0055" OD, 1.7500" ID, .1540" Depth
8	Exh.	87-84	<b>245-1562-36</b> Std Only	Use w/V-2288X; 1.5670" OD, 1.3125" ID, .1860" Depth
8	Exh.	87-84	<b>245-1687-15</b> Std Only	1.6925" OD, 1.4375" ID, .1540" Depth
8	Int.	86-82	<b>245-1937-17</b> Std Only	Use w/V-2287; 1.9425" OD, 1.6875" ID, .2160" Depth
8	Int.	86-82	<b>245-2000-22</b> Std Only	2.0055" OD, 1.7500" ID, .1540" Depth
8	Exh.	83-82	<b>245-1687-15</b> Std Only	1.6925" OD, 1.4375" ID, .1540" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-82	<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper	90-82	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-82	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
8	Rotocap	90-82	<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-82	<b>H587CP</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 1-3.00mm, 1-2.00mm, 1-4.00mm Ring Groove, 2.114" CD, 1.2204" Pin Dia., Flat Head w/Ricardo Cup & Keystone top ring groove - 21.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	90-82	<b>H587P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 1-3.00mm, 1-2.00mm, 1-4.00mm Ring Groove, 2.114" CD, 1.2204" Pin Dia., Flat Head w/Ricardo Cup & Keystone top ring groove - 21.5:1 C.R.
8	Cast Piston - Individual	90-82	<b>WH587CP</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 1-3.00mm, 1-2.00mm, 1-4.00mm Ring Groove, 2.114" CD, 1.2204" Pin Dia., Flat Head w/Ricardo Cup & Keystone top ring groove - 21.5:1 C.R.; <b>DurOshield® skirt coated piston</b>

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

(continued on next page)

# GMC Truck (Includes Minivans)

## 49 6.2L 379 (6211cc) OHV Diesel V8 (Chevrolet), 101mm Bore 1990-82

(cont.) L/D Truck VIN Codes "C" 1982-93 (L/D), "J" 1982-93 (H/D)

	QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION		
BLOCK	8	Cast Piston - Individual	90-82	<b>WH587P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 1-3.00mm, 1-2.00mm, 1-4.00mm Ring Groove, 2.114" CD, 1.2204" Pin Dia., Flat Head w/Ricardo Cup & Keystone top ring groove - 21.5:1 C.R.		
	8	Pin Bushing	88-82	<b>3864Y20</b>	w/.020" extra bore stock		
	8	Pin Bushing	88-82	<b>3864YA20</b>	w/.020" O/S OD & .020" extra bore stock		
		<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90-82	<b>E-468K</b> Std.-50-.75-1.00-1.50MM	1-3.00MM, 1-2.00MM, 1-4.00MM		
	8	Premium Single Cylinder Set	90-82	<b>WE-468K</b> Std.-50-.75-1.00-1.50MM	1-3.00MM, 1-2.00MM, 1-4.00MM		
		<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-82	<b>7370M</b> Std.-026-.25-.50-.75MM	3/4 grooved		
	1	Rod Set	90-82	<b>8-3860P</b> Std.-026-.25-.50-.75MM			
	8	Rod Pair	90-82	<b>3860P</b> Std.-026-.25-.50-.75MM			
1	Cam Set	90-82	<b>1496M</b> Std Only	Full round design			
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-82	<b>224-43424</b>				
1	Inter. Shaft	90-82	<b>224-6143H</b>				
1	Oil Pump Shaft Guide	90-82	<b>224-43351</b>	Nylon			
1	Screen Assy.	90-82	<b>224-1143H</b>				
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-82	<b>260-1619</b>	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.			
1	Kit Gasket Set	90-82	<b>260-1315</b>	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control exh. valve stem seals not incl.; Incl. std. thickness head gskts.			
2	Head Bolt Set	90-82	<b>260-2507</b>	Replacement recommended			
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-82	<b>381-8057</b>				
KITS	<b>RE-RING KIT</b>						
		<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control Exh. valve stem seals not incl.; Incl. std. thickness head gskts.	Re-ring		<b>205-6084</b>	----	
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control Exh. valve stem seals not incl.; Incl. std. thickness head gskts.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains		<b>205-6084M</b>	----	
	90-82	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.	Re-ring		<b>205-6257</b>	----	
	90-82	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Incl. 3/4 grooved main brgs.	Re-ring w/Mains		<b>205-6257M</b>	----	
	<b>OVERHAUL KIT</b>						
		<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control exh. valve stem seals not incl.; Incl. std. thickness head gskts.; Incl. 3/4 grooved main brgs.	Master		<b>MKP-6084A</b>	----	
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control Exh. valve stem seals not incl.; Incl. std. thickness head gskts.	Master w/o Rods & Mains		<b>505-6084A</b>	----	
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control Exh. valve stem seals not incl.; Incl. std. thickness head gskts.; Incl. 3/4 grooved main brgs.	Master w/o Pistons		<b>MK-6084A</b>	----	
	90-82	Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Positive control exh. valve stem seals not incl.; Incl. std. thickness head gskts.; Incl. 3/4 grooved main brgs.	Block w/Pump & Freeze Plugs		<b>BKP-6092</b>	----	
			Block		<b>BK-6092</b>	----	
	90-82	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Incl. 3/4 grooved main brgs.	Block w/Pump & Freeze Plugs		<b>BKP-6093</b>	----	
			Block		<b>BK-6093</b>	----	

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# GMC Truck (Includes Minivans)

**6.2L 379 (6211cc) OHV Diesel V8 (Chevrolet), 101mm Bore 1990-82 49**  
**L/D Truck VIN Codes "C" 1982-93 (L/D), "J" 1982-93 (H/D) (cont.)**

K I T S	OVERHAUL KIT (cont.)			PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION		KIT NO.	KIT NO.	
	90-82	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.	Master w/o Rods & Mains	505-6257A	----	
	90-82	Incl. .010" thicker head gskts.; Incl. H/D int. manifold gskts.; Incl. L/D int. manifold gskts.; Exh. pipe packing not incl.; Incl. 3/4 grooved main brgs.	Master Master w/o Pistons	MKP-6257A MK-6257A	---- ----	

**6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-66 50**  
**L/D Truck VIN Codes "E" 1968-69, "Y" 1968-69**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	69-68	KT3-501SA	Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Set w/Gaskets	69-68	CTS-1110R	
1	Timing Chain	69-68	222-501	Silent type; 50 Links
1	Crank Sprocket	69-68	223-393	19 Teeth
1	Cam Sprocket	69-68	223-392	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	69-68	CS-636	
1	Performance Cam	69-68	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	69-68	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	69-68	CS-1015R	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
16	Lifter	69-68	HT-817 Std Only	Hyd.
16	Lifter, Bulk	69-68	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	69-68	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	69-68	KC-636	Hyd.; Incl. (1) CS-636, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-68	KC-1004R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-68	KC-1088R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	69-68	KC-1015R	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	KCT-636A	Hyd.; Incl. (1) CS-636, (16) HT-817, (1) KT3-501SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	KCT-1004R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	KCT-1088R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	69-68	KCT-1015R	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	69-68	RP-3181	Exh.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	69-68	RP-3325R	Exh.; Chrome-Moly; 9.2200" O.A.L.
8	Push Rod	69-68	RP-3182	Int.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	69-68	BRP-3181	Exh.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	69-68	BRP-3182	Int.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	69-68	R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk	69-68	R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm	69-68	R-851A	
16	Pivot Ball	69-68	MR-1815	
16	Nut	69-68	MR-1813	7/16" thread
16	Stud	69-68	MR-1910RS	7/16" thread, 1.955" length, .710" depth

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# GMC Truck (Includes Minivans)

**50 6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-66**  
 (cont.) L/D Truck VIN Codes "E" 1968-69, "Y" 1968-69

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	69-68	V-1911 Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	69-68	V-1911B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	69-68	V-1912 Std-3-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	69-68	V-1912B Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
<b>VALVE TRAIN</b>				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	69-68	VG-688	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide	69-68	VG-689	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	69-68	VG-688B	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk	69-68	VG-689B	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	69-68	VS-657	Single spring; Incl. damper; 2.1100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	69-68	MV-1769C	Umbrella type; Polyacrylate
16	Valve Stem Seal	69-68	MV-1912	Umbrella type; Premium Material; Viton®
16	Valve Stem Seal Bulk	69-68	MV-1769	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	69-68	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	69-68	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	69-68	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	69-68	VK-138	1 groove; Square cut key groove
32	Keeper	69-68	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	69-68	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	69-68	259-404A	.060"; Carton of 50
<b>BLOCK</b>				
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	69-68	460P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.730 plus .200 step" CD, .9894" Pin Dia., Step Head - 9.6:1 C.R.; Fits both L.H. & R.H. banks
8	Cast Piston - Individual	69-68	W460P Std-30-40-60	Use w/WE-232K or WE-232X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.730 plus .200 step" CD, .9894" Pin Dia., Step Head - 9.6:1 C.R.; Fits both L.H. & R.H. banks
8	Powerforged	69	L-2240NF Std-30-40-60	1st design; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged	68	L-2240NF Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	69	WL-2240NF Std-30-40-60	1st design; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high.
8	Forged Piston - Individual	68	WL-2240NF Std-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.760" CD, .9897" Pin Dia., Domed Head .182" high.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	69-68	E-232K Std-30-40-60	2-5/64, 1-3/16
1	Standard Set	69-68	E-232X Std-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	69-68	WE-232K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	69-68	WE-232X Std-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-66	4400MA Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	69-66	7122MA10 10-20-30	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Rod Set	69-66	8-3190A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	69-66	3190A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Cam Set	69-66	1404M Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	69-68	224-4154	High Volume, check pan for clearance; Use shaft w/steel guide
1	Oil Pump	69-68	224-4153	High Volume, check pan for clearance; Use shaft w/steel guide
1	Inter. Shaft	69-68	224-6154A	Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide
1	Inter. Shaft	69-68	224-6154	Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide
1	Screen Assy.	69-68	224-43620	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	69-66	260-1009	Premium valve stem seals incl.

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# GMC Truck (Includes Minivans)

**6.5L 396 OHV V8 (Chevrolet), 4.0938" Bore 1969-66 50**  
**L/D Truck VIN Codes "E" 1968-69, "Y" 1968-69 (cont.)**

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	69-66	<b>381-8009</b>	
1	Steel Block Plug Kit	69-66	<b>381-4017</b>	

<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION				
	69-68	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-686</b> <b>205-686M</b>	<b>205-186</b> <b>205-186M</b>

<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION				
	69-68	Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master Master w/o Pistons		<b>MKP-686C</b> <b>MK-686C</b>	<b>MKP-186C</b> <b>MK-186C</b>
69-68	Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains		<b>505-686C</b>	<b>505-186C</b>	

**6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1980-70 51**  
**L/D Truck VIN Codes "E" 1972, "K" 1970, "M" 1975, "R" 1972-80, "U" 1973-76, "X" 1980**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	80-75	<b>KT3-163S</b>	10 Series, 20 Series & 30 Series; Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	3 Piece Set	76-74	<b>KT3-499S</b>	Sprint; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Set w/Gaskets	80-75	<b>CTS-1100R</b>	
1	Timing Set w/Gaskets	80-75	<b>CTS-1003</b>	10 Series, 20 Series & 30 Series; Incl. double rlr. type chain
1	Timing Chain	80-75	<b>222-163</b>	10 Series, 20 Series & 30 Series; Double rlr.; 58 Links
1	Timing Chain	76-74	<b>222-499</b>	Sprint; Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket	80-75	<b>223-289</b>	10 Series, 20 Series & 30 Series; Double row; 22 Teeth
1	Crank Sprocket	76-74	<b>223-391</b>	Sprint; Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket	80-75	<b>223-288</b>	10 Series, 20 Series & 30 Series; Double row; 44 Teeth
1	Cam Sprocket	76-74	<b>223-390</b>	Sprint; .405" tooth width sprocket; 36 Teeth
1	Cam Sprocket	76-74	<b>223-390N</b>	Sprint; Nylon; .405" tooth width sprocket; 36 Teeth

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	80-75	<b>CS-274</b>	
1	Performance Cam	80-75	<b>CS-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-1500 Perf. Cam; Hyd.; Duration at .050: 194 Int., 204 Exh.; Valve lift .3980" Int., .4200" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-75	<b>CS-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4200" Int., .4430" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	80-75	<b>CS-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Pro-3000 Perf. Cam; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .4430" Int., .4650" Exh.; Lobe Separation 112 Degrees
16	Lifter	80-75	<b>HT-817</b> Std Only	Hyd.
16	Lifter	80-75	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.
16	Lifter, Bulk	80-75	<b>HT-817B</b> Std Only	Hyd.; Carton of 128
16	Lifter, Bulk	80-75	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128
1	Prelube	80-75	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	80-75	<b>KC-1103R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-1500 Perf. Cam; Duration at .050", 194 Int., 204 Exh.; Valve lift .398" Int., .420" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1103R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-75	<b>KC-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-75	<b>KC-1106R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .443" Int., .465" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1106R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	80-75	<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-75	<b>KCT-1014R</b>	Emissions Legal Cam; CARB E.O. No. D-292-1; Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .420" Int., .443" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1014R, (1) CTS-1100R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-75	<b>KCT-274C</b>	10 Series, 20 Series & 30 Series; Hyd.; Incl. double rlr. type chain; Incl. (1) CS-274, (16) HT-817, (1) KT3-163S, (1) 55-403B

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# GMC Truck (Includes Minivans)

**51 6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1980-70**  
 (cont.) L/D Truck VIN Codes "E" 1972, "K" 1970, "M" 1975, "R" 1972-80, "U" 1973-76, "X" 1980

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	76-75	KCT-274	Sprint; Hyd.; w/.405" tooth width sprocket; Incl. (1) CS-274, (16) HT-817, (1) KT3-499S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	80-75	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	80-75	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	80-75	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	80-75	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	80-75	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	80-75	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	80-75	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	80-75	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	80-75	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	80-75	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	80-75	R-826A	
16	Pivot Ball	80-75	MR-1783	
16	Pivot Ball	80-75	MR-1822	H/D 4 groove ball
16	Nut	80-75	MR-1751	Self-locking, 3/8" x 24 threads
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	80-77	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	80-77	V-1988X Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	76-75	V-1904 Std-3-15-30	Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust	76-75	V-2449X Std Only	Inconel X-751; Chrome plated stem; Premium Material; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust	76-75	V-1988X Std-3-15	1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	80-77	V-1988XB Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk	76-75	V-1904B Std-15	Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	76-75	V-1988XB Std-15	1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Intake	80	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	80	V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	79	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	79	V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	78	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake	78	V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake	77-75	V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	80	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	80	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	79	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	79	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	78	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	78	V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk	77-75	V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	80-75	VG-5046	Exh.; .502" OD; .3740" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	80-75	VS-727	Exh.; Incl. damper; 1.9100" Free Height
8	Spring	80-75	VS-677	Int.; Incl. damper; 2.0300" Free Height
8	Spring, Bulk	80-75	VS-727B	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
8	Spring, Bulk	80-75	VS-677B	Int.; Incl. damper; Carton of 250; 2.0300" Free Height

VALVE TRAIN

VALVE TRAIN

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# GMC Truck (Includes Minivans)

**6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1980-70 51**

L/D Truck VIN Codes "E" 1972, "K" 1970, "M" 1975, "R" 1972-80, "U" 1973-76, "X" 1980 (cont.)

VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	80-75	<b>ST-2004</b>	Exh.; Positive type; Installation requires valve guide machining; Rubber/PTFE
	8	Valve Stem Seal	80-75	<b>ST-2001</b>	Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
	16	Valve Stem Seal	80-75	<b>MV-1233C</b>	O-Ring; Rubber
	16	Valve Stem Seal Bulk	80-75	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
	8	Valve Stem Seal Bulk	80-75	<b>ST-2004BC</b>	Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	8	Valve Stem Seal Bulk	80-75	<b>ST-2001BC</b>	Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	8	Exh.	80-75	<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
	8	Exh.	80-75	<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
	8	Int.	80-75	<b>245-2125-1</b> Std Only	Use w/V-1926; 2.1305" OD, 1.8125" ID, .2480" Depth
	8	Int.	80-75	<b>245-1812-3</b> Std Only	Use w/V-1927; 1.8175" OD, 1.5000" ID, .2160" Depth
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper	80-75	<b>VK-115</b>	1 groove; Square cut key groove
	32	Keeper	80-75	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	80-75	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
	16	Spring Insert	80-75	<b>259-203C</b>	.015"; Carton of 100
	16	Spring Insert	80-75	<b>259-203B</b>	.030"; Carton of 100
	16	Spring Insert	80-75	<b>259-203BRS</b>	.030"; Carton of 500
	16	Spring Insert	80-75	<b>259-203A</b>	.060"; Carton of 100
	16	Spring Insert	80-75	<b>259-203ARS</b>	.060"; Carton of 500
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	8	Cast Piston	80-73	<b>400AP</b> Std-20-30-40-60	Use w/E-243K or E-243X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
	8	Cast Piston - Individual	80-73	<b>W400AP</b> Std-20-30-40-60	Use w/WE-243K or WE-243X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
	1	Cast Piston Set w/Prem. Rings	80-73	<b>8K400AP30</b> 30-40	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .160" deep x 3.445" dia. - 8.5:1 C.R.
	8	Powerforged	71	<b>L-2383F30</b> 30-40-60	Use w/E-243K or E-243X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .110" high w/1 valve relief. <b>DurOshield® skirt coated piston.</b>
	8	Forged Piston - Individual	71	<b>WL-2383F30</b> 30-40-60	Use w/WE-243K or WE-243X ring set; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Flat Head.
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	80-75	<b>E-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
	1	Premium Set	80-75	<b>R-10374</b> Std-30-40-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
	1	Standard Set	80-75	<b>E-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	80-75	<b>WE-243K</b> Std-20-30-40-60	2-5/64, 1-3/16
	8	Premium Single Cylinder Set	71	<b>WE-243K</b> Std-20-30-40-60	Use w/WL-2383F 30 piston; 2-5/64, 1-3/16
	8	Standard Single Cylinder Set	80-75	<b>WE-243X</b> Std-20-30-40-60	2-5/64, 1-3/16
	8	Standard Single Cylinder Set	71	<b>WE-243X</b> Std-20-30-40-60	Use w/WL-2383F 30 piston; 2-5/64, 1-3/16
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	80-73	<b>4926MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>
	1	Rod Set	80-73	<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Rod Set	80-73	<b>8-2555A10X2</b> 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
	1	Rod Set	80-73	<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
	1	Rod Set	80-73	<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
	1	Rod Set	80-73	<b>8-2555CA60</b> 60	Unplated & resizeable
	8	Rod Pair	80-73	<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair	80-73	<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8	Rod Pair	80-73	<b>2555CA60</b> 60	Unplated & resizeable
	1	Cam Set	80-73	<b>1235M</b> Std-1-10	Small block; Babbitt material; Full round design
	1	Cam Set	80-73	<b>1749M</b> Std Only	Small block; Bi-Metal Aluminum
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	80-75	<b>224-4146A</b>	High Pressure; 5/8" inlet
	1	Oil Pump	80-75	<b>224-4143</b>	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide
	1	Oil Pump	80-75	<b>224-4146</b>	5/8" inlet

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# GMC Truck (Includes Minivans)

**51 6.6L 400 OHV V8 (Chevrolet), 4.125" Bore 1980-70**  
 (cont.) L/D Truck VIN Codes "E" 1972, "K" 1970, "M" 1975, "R" 1972-80, "U" 1973-76, "X" 1980

<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Inter. Shaft	80-75	<b>224-6146E</b>	Has steel shaft guide; Eliminates nylon shaft guide
	1	Inter. Shaft	80-75	<b>224-6146</b>	Use w/nylon shaft guide
	1	Oil Pump Shaft Guide	80-75	<b>224-43343</b>	Nylon
	1	Screen Assy.	80-75	<b>224-1246</b>	5/8" inlet tube
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Kit Gasket Set	80-70	<b>260-1016</b>	
	2	Head Bolt Set	80-70	<b>260-2500</b>	
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Brass Block Plug Kit	79-77	<b>381-8008</b>	VIN Code "R"
	1	Brass Block Plug Kit	76	<b>381-8008</b>	VIN Codes "R" & "U"
	1	Brass Block Plug Kit	75	<b>381-8008</b>	VIN Codes "R", "M" & "U"
	1	Brass Block Plug Kit	74-73	<b>381-8008</b>	VIN Codes "R" & "U"
1	Brass Block Plug Kit	72	<b>381-8008</b>	VIN Code "R"	
1	Brass Block Plug Kit	70	<b>381-8008</b>	Vin Code "K"	

<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>205-6282</b>	<b>205-1282</b>
	80-75	Incl. <b>A-Series aluminum bearings</b>	Re-ring		<b>205-6282M</b>	<b>205-1282M</b>
			Re-ring w/Mains			
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>MK-618E</b>	<b>----</b>
	80	VIN Codes "R" & "X"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons			
	79-77	VIN Code "R"; 10 Series, 20 Series & 30 Series; Incl. double rlr. type chain; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains		<b>505-618C</b>	<b>----</b>
	79-77	VIN Code "R"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons		<b>MK-618E</b>	<b>----</b>
	79-77	VIN Code "R"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master		<b>MKP-618E</b>	<b>----</b>
	76	VIN Code "R"; Sprint; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master		<b>MKP-618A</b>	<b>----</b>
	76	VIN Code "R"; Sprint; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains		<b>505-618A</b>	<b>----</b>
	76	VIN Codes "R" & "U"; 10 Series, 20 Series & 30 Series; Incl. double rlr. type chain; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains		<b>505-618C</b>	<b>----</b>
	76	VIN Codes "R" & "U"; Sprint; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons		<b>MKP-618D</b> <b>MK-618D</b>	<b>----</b> <b>----</b>
	76	VIN Codes "R" & "U"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons		<b>MK-618E</b>	<b>----</b>
	76	VIN Codes "R" & "U"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master		<b>MKP-618E</b>	<b>----</b>
	75	VIN Code "R"; Sprint; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master		<b>MKP-618A</b>	<b>----</b>
	75	VIN Code "R"; Sprint; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master w/o Rods & Mains		<b>505-618A</b>	<b>----</b>
	75	VIN Code "R"; 10 Series, 20 Series & 30 Series; Incl. double rlr. type chain; Incl. 5/8" inlet oil pump	Master w/o Rods & Mains		<b>505-618C</b>	<b>----</b>
	75	VIN Codes "R", "M" & "U"; Sprint; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; w/.405" tooth width sprocket	Master Master w/o Pistons		<b>MKP-618D</b> <b>MK-618D</b>	<b>----</b> <b>----</b>
	75	VIN Code "R"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master		<b>MKP-618E</b>	<b>----</b>
	75	VIN Codes "R", "M" & "U"; 10 Series, 20 Series & 30 Series; Incl. <b>A-Series aluminum bearings</b> ; Freeze plugs not incl.; Incl. 5/8" inlet oil pump; Incl. double rlr. type chain	Master w/o Pistons		<b>MK-618E</b>	<b>----</b>

# GMC Truck (Includes Minivans)

**6.6L 402 OHV V8 (Chevrolet), 4.125" Bore 1972-70 52**

L/D Truck VIN Codes "E" 1970-72, "K" 1971, "S" 1972, "U" 1972

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	72-70	KT3-501SA	Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Set w/Gaskets	72-70	CTS-1110R	
1	Timing Chain	72-70	222-501	Silent type; 50 Links
1	Crank Sprocket	72-70	223-393	19 Teeth
1	Cam Sprocket	72-70	223-392	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	72-70	CS-774	
1	Performance Cam	72-70	CS-1004R	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
1	Performance Cam	72-70	CS-1088R	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
1	Performance Cam	72-70	CS-1015R	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
16	Lifter	72-70	HT-817 Std Only	Hyd.
16	Lifter, Bulk	72-70	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	72-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	72-70	KC-774	Hyd.; Incl. (1) CS-774, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1004R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1088R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit	72-70	KC-1015R	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-774	Hyd.; Incl. silent type chain; Incl. (1) CS-774, (16) HT-817, (1) KT3-501SA, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-1004R	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-1088R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	72-70	KCT-1015R	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	72-70	RP-3181	Exh.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	72-70	RP-3182	Int.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3181	Exh.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	72-70	BRP-3182	Int.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	72-70	R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk	72-70	R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm	72-70	R-851A	
16	Pivot Ball	72-70	MR-1815	
16	Nut	72-70	MR-1813	7/16" thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	72-70	V-1911 Std-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	72-70	V-1911B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	72-70	V-1912 Std-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	72-70	V-1912B Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	72-70	VG-688	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide	72-70	VG-689	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	72-70	VG-688B	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk	72-70	VG-689B	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# GMC Truck (Includes Minivans)

**52 6.6L 402 OHV V8 (Chevrolet), 4.125" Bore 1972-70**  
 (cont.) L/D Truck VIN Codes "E" 1970-72, "K" 1971, "S" 1972, "U" 1972

VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	16	Spring	72-71	VS-708	Double spring; 2.1200" Free Height		
	16	Spring	70	VS-657	Single spring; Incl. damper; 2.1100" Free Height		
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	16	Valve Stem Seal	72-70	MV-1769C	Umbrella type; Polyacrylate		
	16	Valve Stem Seal Bulk	72-70	MV-1769	Umbrella type; Carton of 100; Polyacrylate		
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
	8	Exh.	72-70	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth		
	8	Exh.	72-70	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth		
	8	Int.	72-70	245-2250-1 Std Only	2.2555" OD, 1.9375" ID, .1855" Depth		
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	32	Keeper	72-70	VK-138	1 groove; Square cut key groove		
	32	Keeper	72-70	VK-138R	1 groove; Square cut key groove; Hardened		
	32	Keeper, Bulk	72-70	VK-138B	1 groove; Square cut key groove; Carton of 1000		
	16	Spring Insert	72-70	259-203C	.015"; Carton of 100		
	16	Spring Insert	72-70	259-203B	.030"; Carton of 100		
	16	Spring Insert	72-70	259-203BRS	.030"; Carton of 500		
	16	Spring Insert	72-70	259-203A	.060"; Carton of 100		
	16	Spring Insert	72-70	259-203ARS	.060"; Carton of 500		
	QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
	8	Cast Piston	72-70	402P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.732 plus .125 crown" CD, .9894" Pin Dia., Crowned Head		
	8	Cast Piston - Individual	72-70	W402P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.732 plus .125 crown" CD, .9894" Pin Dia., Crowned Head		
	8	Powerforged	72	L-2383F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Domed Head .110" high w/1 valve relief. <b>DurOshield® skirt coated piston.</b>		
	8	Forged Piston - Individual	72	WL-2383F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.770" CD, .9897" Pin Dia., Flat Head.		
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
	1	Premium Set	72-70	E-243K Std-20-30-40-60	2-5/64, 1-3/16		
	1	Standard Set	72-70	E-243X Std-20-30-40-60	2-5/64, 1-3/16		
	8	Premium Single Cylinder Set	72-70	WE-243K Std-20-30-40-60	2-5/64, 1-3/16		
	8	Standard Single Cylinder Set	72-70	WE-243X Std-20-30-40-60	2-5/64, 1-3/16		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	72	4400MA Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>		
	1	Main Set	72	7122MA10 10-20-30	<b>A-Series aluminum bearings;</b> w/.020" O/S length flange brg.		
	1	Rod Set	72	8-3190A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>		
	8	Rod Pair	72	3190A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>		
	1	Cam Set	72	1404M Std Only	Babbitt material; Full round design		
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	72-70	224-4154			
	1	Oil Pump	72-70	224-4153	High Volume, check pan for clearance; Use shaft w/steel guide		
	1	Inter. Shaft	72-70	224-6154A	Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide		
	1	Oil Pump Shaft Guide	72-70	224-43343	Nylon		
	1	Screen Assy.	72-70	224-43620			
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	72-70	260-1009	Premium valve stem seals incl.		
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	72-70	381-8009			
	1	Steel Block Plug Kit	72-70	381-4017			
		<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	72	Incl. <b>A-Series aluminum bearings;</b> Premium valve stem seals incl.		Re-ring Re-ring w/Mains	205-661 205-661M	205-161 205-161M	
		<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	72	Premium valve stem seals incl.; Incl. silent type chain		Master w/o Rods & Mains	505-661A	505-161A	
	72	Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings;</b> Incl. silent type chain		Master Master w/o Pistons	MKP-661A MK-661A	MKP-161A MK-161A	

# GMC Truck (Includes Minivans)

**6.6L 403 OHV V8 (Oldsmobile), 4.351" Bore 1978-77 53**  
L/D Truck VIN Code "K" 1977-78

	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
BLOCK	1	Main Set	78-77	<b>4281M</b> Std-1-10-20-30-40	3.824" max. flange OD
	1	Rod Set	78-77	<b>8-3045A</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
	1	Rod Set	78-77	<b>8-3045APA</b> Std-1	Overplated alum. alloy
	8	Rod Pair	78-77	<b>3045A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
	8	Rod Pair	78-77	<b>3045APA</b> Std Only	Overplated alum. alloy
	1	Cam Set	78-77	<b>1466M</b> Std Only	Full round design
	1	Cam Set	78-77	<b>1787M</b> Std Only	O.E. split type design
		<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	Kit Gasket Set	78-77	<b>260-1104</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.
	1	Valley Pan Gasket Set	78-77	<b>260-4001</b>	

**7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70 54**

L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	1	3 Piece Set	90-88	<b>KT3-507S</b>	VIN Code "N"; Incl. (1) 222-507, (1) 223-392, (1) 223-393	
	1	3 Piece Set	90-71	<b>KT3-171S</b>	H/D timing set; w/4 Bbl. Carb.; Incl. (1) 222-168, (1) 223-394, (1) 223-395	
	1	3 Piece Set	87-71	<b>KT3-501SA</b>	Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393	
	1	Timing Set w/Gaskets	90-73	<b>CTS-1110R</b>		
	1	Timing Chain	90-88	<b>222-507</b>	VIN Code "N"; 50 Links	
	1	Timing Chain	90-71	<b>222-168</b>	H/D; w/4 Bbl. Carb.; Double rlr.; 66 Links	
	1	Timing Chain	87-71	<b>222-501</b>	Silent type; 50 Links	
	1	Crank Sprocket	90-87	<b>223-393</b>	VIN Code "N"; 19 Teeth	
	1	Crank Sprocket	90-71	<b>223-395</b>	H/D; w/4 Bbl. Carb.; 25 Teeth	
	1	Crank Sprocket	86-71	<b>223-393</b>	19 Teeth	
	1	Cam Sprocket	90-87	<b>223-392</b>	VIN Code "N"; 38 Teeth	
	1	Cam Sprocket	90-71	<b>223-394</b>	H/D; w/4 Bbl. Carb.; 50 Teeth	
		<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Camshaft	90-76	<b>CS-774</b>	
		1	Camshaft	75-73	<b>CS-660</b>	
		1	Performance Cam	80-73	<b>CS-1004R</b>	Pro-1500 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 190 Int., 200 Exh.; Valve lift .4390" Int., .4640" Exh.; Lobe Separation 110 Degrees
		1	Performance Cam	80-73	<b>CS-1088R</b>	Pro-2000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 204 Int., 214 Exh.; Valve lift .4760" Int., .5010" Exh.; Lobe Separation 112 Degrees
		1	Performance Cam	80-73	<b>CS-1015R</b>	Pro-3000 Perf. Cam; Use w/Hyd. lifters; Hyd.; Duration at .050: 214 Int., 224 Exh.; Valve lift .5010" Int., .5270" Exh.; Lobe Separation 112 Degrees
	16	Lifter	90-71	<b>HT-817</b> Std Only	Hyd.	
	16	Lifter	90-71	<b>HT-817R</b> Std Only	Speed-Pro Hi-Revolution Hyd.	
	16	Lifter, Bulk	90-71	<b>HT-817B</b> Std Only	Hyd.; Carton of 128	
	16	Lifter, Bulk	90-71	<b>HT-817RB</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Carton of 128	
	1	Prelube	90-73	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	90-76	<b>KC-774</b>	Hyd.; Incl. (1) CS-774, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	80-73	<b>KC-1004R</b>	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	80-73	<b>KC-1088R</b>	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	80-73	<b>KC-1015R</b>	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter Kit	75-73	<b>KC-660</b>	Hyd.; Incl. (1) CS-660, (16) HT-817, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	90-88	<b>KCT-774A</b>	H/D timing set; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-774, (16) HT-817, (1) KT3-171S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	90-88	<b>KCT-774C</b>	VIN Code "N"; Incl. (1) CS-774, (16) HT-817, (1) KT3-507S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	87-76	<b>KCT-774A</b>	H/D timing set; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-774, (16) HT-817, (1) KT3-171S, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	87-76	<b>KCT-774</b>	Hyd.; Incl. silent type chain; Incl. (1) CS-774, (16) HT-817, (1) KT3-501SA, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	80-73	<b>KCT-1004R</b>	Hyd.; Pro-1500 Perf. Cam; Duration at .050", 190 Int., 202 Exh.; Valve lift .454" Int., .480" Exh.; Lobe Separation 110 Degrees; Incl. (1) CS-1004R, (1) CTS-1110R, (16) HT-817, (1) 55-403B	

(continued on next page)

# GMC Truck (Includes Minivans)

**54 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70**  
 (cont.) L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75

VALVE TRAIN

VALVE TRAIN

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	80-73	KCT-1088R	Hyd.; Pro-2000 Perf. Cam; Duration at .050", 204 Int., 214 Exh.; Valve lift .476" Int., .501" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1088R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	80-73	KCT-1015R	Hyd.; Pro-3000 Perf. Cam; Duration at .050", 214 Int., 224 Exh.; Valve lift .501" Int., .527" Exh.; Lobe Separation 112 Degrees; Incl. (1) CS-1015R, (1) CTS-1110R, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-73	KCT-660A	H/D timing set; w/4 Bbl. Carb.; Hyd.; Incl. (1) CS-660, (16) HT-817, (1) KT3-171S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-73	KCT-660	Hyd.; Incl. silent type chain; Incl. (1) CS-660, (16) HT-817, (1) KT3-501SA, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	90-85	RP-3254	Exh.; 9.2020" O.A.L.
8	Push Rod	90-85	RP-3255	Int.; 8.2270" O.A.L.
8	Push Rod	85-71	RP-3182	Int.; .3125" dia.; 8.2800" O.A.L.
8	Push Rod	84-71	RP-3181	Exh.; .3125" dia.; 9.2520" O.A.L.
8	Push Rod	84-71	RP-3103	Exh.; .375" Rod dia.; 9.2540" O.A.L.
8	Push Rod	84-71	RP-3215R	Exh.; Chrome-Moly; .375" tube dia.; 9.2520" O.A.L.
8	Push Rod	84-71	RP-3218R	Exh.; Chrome-Moly; .437" tube dia.; 9.2520" O.A.L.
8	Push Rod	84-71	RP-3104	Int.; .375" Rod dia.; 8.2810" O.A.L.
8	Push Rod	84-71	RP-3216R	Int.; Chrome-Moly; .375" tube dia.; 8.2800" O.A.L.
8	Push Rod	84-71	RP-3217R	Int.; Chrome-Moly; .437" tube dia.; 8.2800" O.A.L.
8	Push Rod, Bulk	90-85	BRP-3254	Exh.; Carton of 100; 9.2020" O.A.L.
8	Push Rod, Bulk	90-85	BRP-3255	Int.; Carton of 100; 8.2270" O.A.L.
8	Push Rod, Bulk	85-71	BRP-3182	Int.; .3125" dia.; Carton of 100; 8.2800" O.A.L.
8	Push Rod, Bulk	84-71	BRP-3181	Exh.; .3125" dia.; Carton of 100; 9.2520" O.A.L.
8	Push Rod, Bulk	84-71	BRP-3103	Exh.; .375" Rod dia.; Carton of 100; 9.2540" O.A.L.
8	Push Rod, Bulk	84-71	BRP-3104	Int.; .375" Rod dia.; Carton of 100; 8.2810" O.A.L.
8	Push Rod Guide Plate	90-71	MR-1893	Speed-Pro stepped guide plate for 3/8" dia. push rods; Requires screw-in studs
8	Push Rod Guide Plate	90-71	MR-1894	Speed-Pro stepped guide plate for 7/16" dia. push rods; Requires screw-in studs
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	90-71	R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk	90-71	R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm	90-71	R-851A	
16	Pivot Ball	90-71	MR-1815	
16	Nut	90-71	MR-1813	7/16" thread
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-88	V-1989X Std-15	VIN Codes "J" & "N"; Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	90-87	V-2450X Std Only	VIN Code "W"; Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	87	V-1989X Std-15	VIN Code "N"; Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	86	V-2450X Std Only	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	85	V-1989X Std-15	w/H4D Emis.; w/Cast iron manifold; Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	85	V-2450X Std Only	w/H5D Emis.; w/Stainless steel exh. manifold; Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	84-80	V-1989X Std-15	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	79	V-1989X Std-15	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	79	V-1911 Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	78-77	V-1989X Std-15	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	76-73	V-1989X Std-15	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust	76-73	V-1911 Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	72	V-1911 Std-3-15	Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust	71	V-1911 Std-3-15	Exc. Sprint & El Camino; Chrome plated stem; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.

(continued on next page)



# GMC Truck (Includes Minivans)

**7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70 54**

**L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" (cont.) 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75**

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exhaust	71	<b>V-1861</b> Std Only	Sprint, El Camino; Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 1.8740" Head Dia., .3703" Stem Dia., 5.3622" O.A.L.
8	Exhaust, Bulk	90-88	<b>V-1989XB15</b> 15	VIN Codes "J" & "N"; Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	87	<b>V-1989XB15</b> 15	VIN Code "N"; Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	85	<b>V-1989XB15</b> 15	w/H4D Emis.; w/Cast iron manifold; Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	84-80	<b>V-1989XB15</b> 15	Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	79	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	79	<b>V-1989XB15</b> 15	Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	78-77	<b>V-1989XB15</b> 15	Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	76-73	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	76-73	<b>V-1989XB15</b> 15	Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	72	<b>V-1911B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk	71	<b>V-1911B</b> Std-15	Exc. Sprint & El Camino; Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3718" Stem Dia., 5.3550" O.A.L.
8	Intake	90-72	<b>V-1912</b> Std-3-15	Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake	71	<b>V-1912</b> Std-3-15	Sprint, El Camino; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	90-72	<b>V-1912B</b> Std-15	Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
8	Intake, Bulk	71	<b>V-1912B</b> Std-15	Sprint, El Camino; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Chrome plated stem; Carton of 25; 2.0650" Head Dia., .3720" Stem Dia., 5.2300" O.A.L.
<b>VALVE TRAIN</b>				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-85	<b>VG-1322</b>	Exh.; Not cut for seal; Caution - Drive guide out from spring side to combustion side; .3740" ID, 2.7550" O.A.L.
8	Guide	90-85	<b>VG-1321</b>	Exh.; Use w/seal; Caution - Drive guide out from spring side to combustion side; .3765" ID, 2.4350" O.A.L.
8	Guide	90-85	<b>VG-689</b>	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide	84-71	<b>VG-688</b>	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide	84-71	<b>VG-689</b>	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	90-85	<b>VG-689B</b>	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk	84-71	<b>VG-688B</b>	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk	84-71	<b>VG-689B</b>	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-86	<b>VS-859</b>	Exh. & Int.; 2.0500" Free Height
16	Spring	85	<b>VS-671</b>	w/Cast Iron manifold; 2.0500" Free Height
16	Spring	85	<b>VS-859</b>	Exc. w/Cast iron manifold; 2.0500" Free Height
16	Spring	84-75	<b>VS-671</b>	2.0500" Free Height
16	Spring	74-73	<b>VS-728</b>	2.0930" Free Height
16	Spring	72-71	<b>VS-708</b>	Sprint; Double spring; 2.1200" Free Height
16	Spring, Bulk	85	<b>VS-671B</b>	w/Cast Iron manifold; Carton of 150; 2.0500" Free Height
16	Spring, Bulk	84-75	<b>VS-671B</b>	Carton of 150; 2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-71	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	90-71	<b>MV-1769C</b>	Umbrella type; Polyacrylate
16	Valve Stem Seal	90-71	<b>MV-1912</b>	Umbrella type; Premium Material; Viton®
16	Valve Stem Seal Bulk	90-71	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	Valve Stem Seal Bulk	90-71	<b>MV-1769</b>	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-85	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	90-72	<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	90-72	<b>245-2250-1</b> Std Only	2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	84-72	<b>245-1812-4N</b> Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	71	<b>245-1812-4N</b> Std Only	Exc. Sprint & El Camino; w/4 Bbl. Carb.; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth

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# GMC Truck (Includes Minivans)

**54 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70**  
 (cont.) L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
8	Exh.	71	<b>245-1812-4</b> Std Only	Exc. Sprint & El Camino; w/4 Bbl. Carb.; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	71	<b>245-2250-1</b> Std Only	Exc. Sprint & El Camino; w/4 Bbl. Carb.; 2.2555" OD, 1.9375" ID, .1855" Depth
8	Exh.	71	<b>245-1812-4N</b> Std Only	Sprint, El Camino; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Exh.	71	<b>245-1812-4</b> Std Only	Sprint, El Camino; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 1.8175" OD, 1.5625" ID, .2160" Depth
8	Int.	71	<b>245-2250-1</b> Std Only	Sprint, El Camino; Exc. Spec. Hi-Perf.; w/4 Bbl. Carb.; 2.2555" OD, 1.9375" ID, .1855" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-71	<b>VK-138</b>	1 groove; Square cut key groove
32	Keeper	90-71	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	90-71	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-71	<b>259-203C</b>	.015"; Carton of 100
16	Spring Insert	90-71	<b>259-203B</b>	.030"; Carton of 100
16	Spring Insert	90-71	<b>259-203BRS</b>	.030"; Carton of 500
16	Spring Insert	90-71	<b>259-203A</b>	.060"; Carton of 100
16	Spring Insert	90-71	<b>259-203ARS</b>	.060"; Carton of 500
8	Rotocap	90-71	<b>RC-163S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	90-83	<b>H518CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; For + .100" use ring set E424K30; <b>DurOshield® skirt coated piston</b>
8	Cast Piston	83-73	<b>H661CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/E-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	90-83	<b>WH518CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; For + .100" use ring set WE424K30; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual	83-73	<b>WH661CP</b> Std-20-30-40-60-100	Use in sets only; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90-83	<b>8KH518CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9894" Pin Dia., Recessed Head .080" deep x 2.100" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-73	<b>8KH661CP30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Powerforged	90-73	<b>L-2377F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual	90-73	<b>WL-2377F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-71	<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	90-71	<b>R-9905</b> Std-20-30-40-60	2-5/64, 1-3/16; Speed-Pro plasma-moly Perf. ring set
1	Standard Set	90-71	<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-84	<b>WE-424K30</b> Std-30-40-60	Use w/WH518CP 100 piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	90-71	<b>WE-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	83	<b>WE-424K30</b> Std-30-40-60	Use w/WH518CP 100 or WH661CP 100 piston; 2-5/64, 1-3/16
8	Premium Single Cylinder Set	82-73	<b>WE-424K30</b> Std-30-40-60	Use w/WH661CP 100 piston; 2-5/64, 1-3/16
8	Standard Single Cylinder Set	90-71	<b>WE-233X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	90-71	<b>SL-24Y</b> Std Only	1/8" wall, must be cut to correct length
1	Repair Sleeve	90-71	<b>SL-24M</b> Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-70	<b>4400MA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set	90-70	<b>7122MA10</b> 10-20-30	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Main Set	90-70	<b>7273M</b> Std-20	Full grooved

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# GMC Truck (Includes Minivans)

7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70 **54**

L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" (cont.) 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75

	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
BLOCK	1	Rod Set	90-70	<b>8-3190A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair	90-70	<b>3190A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	1	Cam Set	90-70	<b>1404M</b> Std Only	Babbitt material; Full round design
	1	Oil Pump	90	<b>224-4153</b>	High Volume, check pan for clearance; Use shaft w/steel guide
	1	Oil Pump	90-87	<b>224-4154G</b>	Check for adequate main cap and crankshaft clearance
	1	Oil Pump	86-85	<b>224-4154G</b>	"Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; w/4 Bbl. Carb.; VIN Code "W"
	1	Oil Pump	86-85	<b>224-4154</b>	"Tall Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance
	1	Oil Pump	84-70	<b>224-4154</b>	
	1	Oil Pump	84-70	<b>224-4153</b>	High Volume, check pan for clearance; Use shaft w/steel guide
	1	Pump Repair Kit	90-87	<b>224-51348</b>	Exc. High Volume
	1	Inter. Shaft	90-70	<b>224-6154A</b>	Shaft w/slotted end, 6.52" O.A.L.; Use w/nylon guide
	1	Inter. Shaft	90-70	<b>224-6154</b>	Shaft w/slotted end, 6.82" O.A.L.; Has integral steel guide
	1	Oil Pump Shaft Guide	90-70	<b>224-43343</b>	Nylon
	1	Screen Assy.	90-86	<b>224-14264</b>	
	1	Screen Assy.	85	<b>224-14264</b>	Exc. P30 Van; w/o Stainless steel exh.
1	Screen Assy.	85	<b>224-43620</b>	P30 & P35; w/o Stainless steel exh.	
1	Screen Assy.	84	<b>224-14264</b>		
1	Screen Assy.	83-80	<b>224-14264</b>	Exc. P30 Van & P35/P3500 Van	
1	Screen Assy.	83-77	<b>224-43620</b>	P30 & P35	
1	Screen Assy.	79-77	<b>224-14264</b>	Exc. P30 Van & P35/P3500 Van	
1	Screen Assy.	76-73	<b>224-43620</b>		
	1	Kit Gasket Set	90-86	<b>260-1418</b>	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85	<b>260-1046</b>	w/o H5D Emis.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	85	<b>260-1418</b>	w/H5D Emis.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	84-80	<b>260-1046</b>	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	79-70	<b>260-1009</b>	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.
	1	Brass Block Plug Kit	90-70	<b>381-8009</b>	
	1	Steel Block Plug Kit	90-70	<b>381-4017</b>	
KITS	<b>RE-RING KIT</b>				
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
	90-86	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-6086</b> <b>205-6086M</b>
	85	w/H5D Emis.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-6086</b> <b>205-6086M</b>
	85	w/o H5D Emis.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-660</b> <b>205-660M</b>
84-80	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-660</b> <b>205-660M</b>	
79-71	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-613</b> <b>205-613M</b>	

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# GMC Truck (Includes Minivans)

**54 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70**  
 (cont.) L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75

YEARS	OVERHAUL KIT DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
	90-88	VIN Code "N"; Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Pistons	<b>MK-7028</b>
90-88	VIN Code "N"; Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Master w/o Rods & Mains	<b>505-7028</b>	----
90-88	VIN Code "N"; Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Master	<b>MKP-7028</b>	----
90-85	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. High Volume oil pump, check pan for clearance; Use oil pump shaft w/steel guide	Block w/Pump & Freeze Plugs	<b>BKP-6098</b>	----
90-85	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	<b>BK-6098</b>	----
87	Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	<b>MKF-6086C</b> <b>MKP-6086C</b> <b>MK-6086C</b>	---- <b>MKP-1086C</b> <b>MK-1086C</b>
87	Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-6086C</b>	<b>505-1086C</b>
86	VIN Code "W"; Incl. "Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; w/4 Bbl. Carb.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	<b>MKF-6086C</b> <b>MKP-6086C</b> <b>MK-6086C</b>	---- <b>MKP-1086C</b> <b>MK-1086C</b>
86	VIN Code "W"; Incl. "Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; w/4 Bbl. Carb.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-6086C</b>	<b>505-1086C</b>
85	VIN Code "W"; w/H5D Emis.; Incl. "Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; w/4 Bbl. Carb.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Mster w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	<b>MKF-6086C</b> <b>MKP-6086C</b> <b>MK-6086C</b>	---- <b>MKP-1086C</b> <b>MK-1086C</b>
85	VIN Code "W"; w/H5D Emis.; Incl. "Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; w/4 Bbl. Carb.; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	<b>505-6086C</b>	<b>505-1086C</b>
85	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; w/H5D Emis.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block	<b>BK-6098</b>	----

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## GMC Truck (Includes Minivans)

7.4L 454 OHV V8 (Chevrolet), 4.25" Bore 1990-70 <b>54</b>					
L/D Truck VIN Codes "B" 1998-99 (Vortec), "E" 1970-71, "J" 1996-2000 (Vortec), "L" 1973-75, "N" (cont.) 1987-97, "S" 1976-80, "V" 1972, "W" 1972 & 1980-89, "Y" 1973-78, "Z" 1973-75					
K I T S	OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	85	w/o H5D Emis.; Incl. "Tall Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance; Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Pistons	MKF-660A MK-660A	----- MK-160A
	84-80	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master w/o Pistons	MKF-660A MK-660A	----- MK-160A
	83-80	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master	MKP-660A	MKP-160A
	83-80	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-660A	505-160A
	79-76	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	MKF-613E MKP-613E MK-613E	----- MKP-113E MK-113E
	79-76	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-613E	505-113E
	75-74	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	MKF-613C MKP-613C MK-613C	----- MKP-113C MK-113C
	75-74	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-613C	505-113C
73	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. silent type chain	Master w/Frg. Pstn. Prm. Rings Master Master w/o Pistons	MKF-613C MKP-613C MK-613C	----- MKP-113C MK-113C	
73	Exh. pipe packing not incl.; LPG int. manifold gskts. not incl.; Premium valve stem seals incl.; Incl. silent type chain	Master w/o Rods & Mains	505-613C	505-113C	

7.5L 455 OHV V8 (Oldsmobile), 4.125" Bore 1976-73 <b>55</b>						
L/D Truck VIN Codes "S" 1976, "W" 1973-75						
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
		1	Main Set	76-73	<b>4294M</b> Std-1-10-20-30	
		1	Rod Set	76-73	<b>8-3345P</b> Std-1-10-20-30-40	
		8	Rod Pair	76-73	<b>3345P</b> Std-1-10-20-30-40	
		1	Cam Set	76-73	<b>1234M</b> Std Only	Babbitt material; Full round design
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
	1	Kit Gasket Set	76-73	<b>260-1008</b>	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
	1	Valley Pan Gasket Set	76-73	<b>260-4024</b>		

## Honda Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.2L 1169cc SOHC L4 70mm Bore (8 Valve).....	1973	1	1.6L 1599cc SOHC L4 74mm Bore (12 Valve).....	1978-76	13
1.2L 1238cc SOHC L4 72mm Bore (8 Valve).....	1979-74	2	1.8L 1751cc SOHC L4 77mm Bore (12 Valve).....	1983-79	14
1.3L 1335cc SOHC L4 72mm Bore (8 Valve).....	1983-80	3	1.8L 1829cc SOHC L4 80mm Bore (12 Valve).....	1987-83	15
1.3L 1342cc SOHC L4 74mm Bore (8 Valve).....	1987-84	4	1.8L 1834cc DOHC L4 81mm Bore (16 Valve).....	1990	16
1.5L 1488cc SOHC L4 74mm Bore (8 Valve).....	1983-75	5	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve).....	1989-85	17
1.5L 1488cc SOHC L4 74mm Bore (8 Valve).....	1987-84	6	2.0L 1958cc DOHC L4 81mm Bore (16 Valve).....	1990-88	18
1.5L 1488cc SOHC L4 74mm Bore (12 Valve).....	1987-84	7	2.0L 1958cc SOHC L4 81mm Bore (12 Valve).....	1990-88	19
1.5L 1488cc SOHC L4 74mm Bore (12 Valve).....	1987-85	8	2.1L 2056cc DOHC L4 83mm Bore (16 Valve).....	1990	20
1.5L 1493cc SOHC L4 75mm Bore (16 Valve).....	1990-88	9	2.2L 2156cc SOHC L4 85mm Bore (16 Valve).....	1990	21
1.5L 1493cc SOHC L4 75mm Bore (8 Valve).....	1990-88	10	2.5L 2494cc SOHC V6 84mm Bore (24 Valve).....	1987-86	22
1.6L 1590cc DOHC L4 75mm Bore (16 Valve).....	1989-86	11	2.7L 2675cc SOHC V6 87mm Bore (24 Valve).....	1990-87	23
1.6L 1590cc SOHC L4 75mm Bore (16 Valve).....	1990-88	12			

# Honda Car

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
A18A1	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15	D16Y8	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12
A18A2	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15	D16Z6	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12
A20A1	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	EB1	1.2L 1169cc SOHC L4 70mm Bore (8 Valve)	1
A20A2	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	EB2	1.2L 1238cc SOHC L4 72mm Bore (8 Valve)	2
A20A3	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	EB3	1.2L 1238cc SOHC L4 72mm Bore (8 Valve)	2
A20A4	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	EC	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
BS1	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	ED1	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
BS2	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	ED2	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
BT1	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	ED3	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
BT2	2.0L 1955cc SOHC L4 82.7mm Bore (12 Valve)	17	ED4	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
B18A1	1.8L 1834cc DOHC L4 81mm Bore (16 Valve)	16	EF1	1.6L 1599cc SOHC L4 74mm Bore (12 Valve)	13
B18B1	1.8L 1834cc DOHC L4 81mm Bore (16 Valve)	16	EF2	1.6L 1599cc SOHC L4 74mm Bore (12 Valve)	13
B20A3	2.0L 1958cc SOHC L4 81mm Bore (12 Valve)	19	EG	1.6L 1599cc SOHC L4 74mm Bore (12 Valve)	13
B20A5	2.0L 1958cc DOHC L4 81mm Bore (16 Valve)	18	EJ1	1.3L 1335cc SOHC L4 72mm Bore (8 Valve)	3
B21A1	2.1L 2056cc DOHC L4 83mm Bore (16 Valve)	20	EK1	1.8L 1751cc SOHC L4 77mm Bore (12 Valve)	14
C25A1	2.5L 2494cc SOHC V6 84mm Bore (24 Valve)	22	EM1	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	5
C27A1	2.7L 2675cc SOHC V6 87mm Bore (24 Valve)	23	EN1	1.3L 1335cc SOHC L4 72mm Bore (8 Valve)	3
C27A4	2.7L 2675cc SOHC V6 87mm Bore (24 Valve)	23	ES1	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15
D13A1	1.3L 1342cc SOHC L4 74mm Bore (8 Valve)	4	ES2	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15
D13A2	1.3L 1342cc SOHC L4 74mm Bore (8 Valve)	4	ES3	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15
D15A1	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	7	ET1	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15
D15A2 (CRX HF only)	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	6	ET2	1.8L 1829cc SOHC L4 80mm Bore (12 Valve)	15
D15A2 (Exc. CRX HF)	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	7	EV1	1.3L 1342cc SOHC L4 74mm Bore (8 Valve)	4
D15A3	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	8	EV2	1.3L 1342cc SOHC L4 74mm Bore (8 Valve)	4
D15B1	1.5L 1493cc SOHC L4 75mm Bore (16 Valve)	9	EW1 (CRX HF only)	1.5L 1488cc SOHC L4 74mm Bore (8 Valve)	6
D15B2	1.5L 1493cc SOHC L4 75mm Bore (16 Valve)	9	EW1 (Exc. CRX HF)	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	7
D15B6	1.5L 1493cc SOHC L4 75mm Bore (8 Valve)	10	EW2	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	7
D15B7	1.5L 1493cc SOHC L4 75mm Bore (16 Valve)	9	EW3	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	8
D15B8	1.5L 1493cc SOHC L4 75mm Bore (8 Valve)	10	EW4	1.5L 1488cc SOHC L4 74mm Bore (12 Valve)	8
D15Z1	1.5L 1493cc SOHC L4 75mm Bore (16 Valve)	9	F22A1	2.2L 2156cc SOHC L4 85mm Bore (16 Valve)	21
D16A1	1.6L 1590cc DOHC L4 75mm Bore (16 Valve)	11	F22A4	2.2L 2156cc SOHC L4 85mm Bore (16 Valve)	21
D16A6	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12	F22A6	2.2L 2156cc SOHC L4 85mm Bore (16 Valve)	21
D16B5	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12	F22B1	2.2L 2156cc SOHC L4 85mm Bore (16 Valve)	21
D16Y5	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12	F22B2	2.2L 2156cc SOHC L4 85mm Bore (16 Valve)	21
D16Y7	1.6L 1590cc SOHC L4 75mm Bore (16 Valve)	12			

**1** 1.2L 1169cc SOHC L4 (8 Valve), 70mm Bore 1973  
Eng. Code "EB1" 1973

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	73	222-28	

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# Honda Car

## 1.2L 1169cc SOHC L4 (8 Valve), 70mm Bore 1973 1

Eng. Code "EB1" 1973 (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION	
1	Crank Sprocket	73	223-2917	16 Teeth	
8	VALVE SEAL Valve Stem Seal	73	PART NO. ST-2066	DESCRIPTION Positive type; Rubber	
BLOCK	4	PISTON Cast Piston	YEARS 73	PART NO. 12161P Std-.50-.75-1.00MM	DESCRIPTION Cast; 2-1.50mm, 1-2.80mm Ring Groove, 27.0mm CD, 17.0mm Pin Dia., Recessed Head 0.50mm deep x 60.50mm dia.
	1	ENGINE BEARINGS Main Set	YEARS 73	PART NO. 6792M.25MM .25MM	DESCRIPTION Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process
	1 1	Thrust Washer Set Rod Set	73 73	67341AF Std Only 4-67340CP Std Only	Position 4 Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process

## 1.2L 1238cc SOHC L4 (8 Valve), 72mm Bore 1979-74 2

Eng. Codes "EB2" 1974-77, "EB3" 1978-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	79-74	222-28		
1	Crank Sprocket	79-74	223-2917	16 Teeth	
8	ROCKER PARTS Arm Assy.	YEARS 79-76	PART NO. R-1069	DESCRIPTION Incl. arm, screw & nut	
8	VALVE SEAL Valve Stem Seal	YEARS 77-74	PART NO. ST-2066	DESCRIPTION Positive type; Rubber	
BLOCK	4	PISTON Cast Piston	YEARS 79-74	PART NO. 12162P Std-.75MM	DESCRIPTION Eng. Codes "EB2" & "EB3"; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 27.0mm CD, 17.0mm Pin Dia., Recessed Head 1.40mm deep x 62.00mm dia. - 8.1:1 C.R.
	4	Cast Piston	79-74	12181P.75MM .75MM	Eng. Codes "EB2" & "EB3"; Use w/E-403X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 17.0mm Pin Dia., Domed Head 2.50mm high x 65.00mm dia. - 8.1:1 C.R.
	1	RINGS Standard Set	YEARS 79-78	PART NO. E-403X Std Only	DESCRIPTION 2-1.50MM, 1-4.00MM
	1	ENGINE BEARINGS Main Set	YEARS 79-74	PART NO. 6792M.25MM .25MM	DESCRIPTION Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process
	1 1	Thrust Washer Set Rod Set	79-74 79-74	67341AF Std Only 4-67340CP Std Only	Position 4 Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process

## 1.3L 1335cc SOHC L4 (8 Valve), 72mm Bore 1983-80 3

Eng. Codes "EJ1" 1980-83, "EN1" 1980-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	83-80	222-73		
8	ROCKER PARTS Arm Assy.	YEARS 83-80	PART NO. R-1069	DESCRIPTION Incl. arm, screw & nut	
4	VALVE GUIDE Guide	YEARS 83-80	PART NO. VG-747	DESCRIPTION Exh.; .2605" ID, 2.1600" O.A.L.	
4	Guide	83-80	VG-883	Int.; .2550" ID, 1.9600" O.A.L.	
4	VALVE SEAL Valve Stem Seal	YEARS 83-80	PART NO. ST-2066	DESCRIPTION Int.; Positive type; Rubber	
BLOCK	1	RINGS Standard Set	YEARS 81-80	PART NO. E-403X Std Only	DESCRIPTION Exc. Calif., Hondamatic and Hi Alt.; 2-1.50MM, 1-4.00MM
	1	ENGINE BEARINGS Main Set	YEARS 83-80	PART NO. 6792M.25MM .25MM	DESCRIPTION Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process
	1 1	Thrust Washer Set Rod Set	83-80 83-80	67341AF Std Only 4-67340CP Std Only	Position 4 Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process

# Honda Car

## 4 1.3L 1342cc SOHC L4 (8 Valve), 74mm Bore 1987-84 Eng. Codes "D13A1" 1987, "D13A2" 1987, "EV1" 1984-86, "EV2" 1984-86

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
	1	Timing Belt	87-86	222-B161		
	1	Timing Belt	85-84	222-99		
	1	Timing Belt Tensioner	87-84	222-126BT		
	1	Timing Belt & Tensioner Set	87-84	BTS-161		
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Prelube	87-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	4	Arm	87-84	R-976	"A"	
	4	Arm	87-84	R-975	"B"	
2	Arm	87-84	R-974	Aux. "C"		
2	Arm	87-84	R-985	Aux. "D"		
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	4	Guide	87-84	VG-747	Exh.; .2605" ID, 2.1600" O.A.L.	
	4	Guide	87-84	VG-883	Int.; .2550" ID, 1.9600" O.A.L.	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
	4	Valve Stem Seal	87-84	ST-2067	Exh.; Positive type; Rubber	
4	Valve Stem Seal	87-84	ST-2066	Int.; Positive type; Rubber		
VALVE, MISC	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	16	Keeper	87-84	VK-235	Exh. & Int.	
	BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
		1	Premium Set	87-85	E-527KC Std Only	Exc. CRX; 1-1.20MM, 1-2.80MM
		1	Premium Set	84	E-527KC Std Only	1-1.20MM, 1-2.80MM
4		Premium Single Cylinder Set	87-85	WE-527KC Std Only	Exc. CRX; 1-1.20MM, 1-2.80MM	
4		Premium Single Cylinder Set	84	WE-527KC Std Only	1-1.20MM, 1-2.80MM	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
	1	Main Set	87-84	6699MA Std-.25-.50MM	Eng. Codes "D13A2", "EV1" & "EV2"; <b>A-Series aluminum bearings</b>	
	1	Main Set	87-84	7041M Std Only	Eng. Codes "EV1" & "EV2"	
	1	Thrust Washer Set	87-84	67341AF Std Only		
	1	Rod Set	87-84	4-1510CP Std Only	Eng. Codes "D13A2", "EV1" & "EV2"	
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
	1	Kit Gasket Set	87-84	260-1483	Civic; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	87-84	260-1483	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	

## 5 1.5L 1488cc SOHC L4 (8 Valve), 74mm Bore 1983-75 Eng. Codes "EC" 1975-79, "ED1" 1975, "ED2" 1975, "ED3" 1976-79, "ED4" 1978-79, "EM1" 1980-83

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
	1	Timing Belt	83-76	222-41		
	1	Timing Belt	75	222-36		
	1	Cam Sprocket	79-75	223-590	40 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Prelube	83-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	8	Arm Assy.	83-76	R-1069	Incl. arm, screw & nut	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	4	Guide	83-76	VG-747	Exh.; .2605" ID, 2.1600" O.A.L.	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
4	Valve Stem Seal	83-75	ST-2066	Int.; Positive type; Rubber		
VALVE SEAT	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
	4	Exh.	83-75	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth	
	BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
		1	Premium Set	83-82	E-438KC Std-.25-.50MM	2-1.20MM, 1-2.80MM
		1	Premium Set	81-75	E-370KC.50MM .50-.75MM	2-1.50MM, 1-4.00MM
1		Standard Set	83-82	E-438X Std Only	2-1.20MM, 1-2.80MM	
1		Standard Set	81-75	E-370X Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	83-82	WE-438KC Std Only	2-1.20MM, 1-2.80MM		
4	Premium Single Cylinder Set	81-75	WE-370KC Std Only	2-1.50MM, 1-4.00MM		
4	Standard Single Cylinder Set	81-75	WE-370X Std-.50MM	2-1.50MM, 1-4.00MM		

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# Honda Car

<b>1.5L 1488cc SOHC L4 (8 Valve), 74mm Bore 1983-75 5</b>												
Eng. Codes "EC" 1975-79, "ED1" 1975, "ED2" 1975, "ED3" 1976-79, "ED4" 1978-79, "EM1" 1980-83 (cont.)												
<b>B</b>	<b>L</b>	<b>O</b>	<b>C</b>	<b>K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
					1	Main Set	83-75	<b>6793M</b> Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process			
					1	Thrust Washer Set	83-75	<b>67341AF</b> Std Only	Position 4			
1	Rod Set	83-75	<b>4-67345CP</b> Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process								
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>								
1	Brass Block Plug Kit	83-75	<b>381-8032</b>									
<b>1.5L 1488cc SOHC L4 (8 Valve), 74mm Bore 1987-84 6</b>												
Eng. Codes "D15A2" 1987, "EW1" 1985-86												
<b>V</b>	<b>A</b>	<b>L</b>	<b>V</b>	<b>A</b>	<b>L</b>	<b>I</b>	<b>N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
								1	Timing Belt	87-86	<b>222-B161</b>	
								1	Timing Belt	85	<b>222-99</b>	
								1	Timing Belt Tensioner	87-85	<b>222-126BT</b>	
								<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
								1	Prelube	87-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
								<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
								2	Arm	87-84	<b>R-974</b>	Aux. "C"
								2	Arm	87-84	<b>R-985</b>	Aux. "D"
								6	Arm	87-84	<b>R-976</b>	Exh. & Int. "A"
								6	Arm	87-84	<b>R-975</b>	Exh. & Int. "B"
								<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
								4	Exhaust	87-84	<b>V-2368X</b> Std Only	Nitrided stem; 1.2600" Head Dia., .2579" Stem Dia., 4.4820" O.A.L.
								8	Intake	87-84	<b>V-2369</b> Std Only	Chrome plated stem; 1.0630" Head Dia., .2591" Stem Dia., 4.4370" O.A.L.
								<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
								4	Guide	87-84	<b>VG-747</b>	Exh.; .2605" ID, 2.1600" O.A.L.
8	Guide	87-84	<b>VG-883</b>	Int.; .2550" ID, 1.9600" O.A.L.								
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>								
4	Valve Stem Seal	87-84	<b>ST-2067</b>	Exh.; Positive type; Rubber								
4	Valve Stem Seal	87-84	<b>ST-2066</b>	Int.; Positive type; Rubber								
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>								
16	Keeper	87-84	<b>VK-235</b>	Exh. & Int.								
<b>B</b>	<b>L</b>	<b>O</b>	<b>C</b>	<b>K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
					1	Premium Set	87-84	<b>E-438KC</b> Std-.25-.50MM	2-1.20MM, 1-2.80MM			
					1	Standard Set	87-84	<b>E-438X</b> Std Only	2-1.20MM, 1-2.80MM			
					4	Premium Single Cylinder Set	87-84	<b>WE-438KC</b> Std Only	2-1.20MM, 1-2.80MM			
					<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
					1	Main Set	87-84	<b>6793M</b> Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process			
					1	Thrust Washer Set	87-84	<b>67341AF</b> Std Only	Position 4			
					1	Rod Set	87-84	<b>4-1520CP</b> Std-.25-.50MM				
					<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
					1	Kit Gasket Set	87-84	<b>260-1483</b>	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>								
1	Brass Block Plug Kit	87-84	<b>381-8032</b>									
<b>K</b>	<b>I</b>	<b>T</b>	<b>S</b>	<b>RE-RING KIT</b>		<b>PREMIUM</b>	<b>ECONOMY</b>					
				<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>					
87	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6157</b>	----								
87	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	Re-ring w/Mains	<b>205-6157M</b>	----								

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## 6 1.5L 1488cc SOHC L4 (8 Valve), 74mm Bore 1987-84

(cont.) Eng. Codes "D15A2" 1987, "EW1" 1985-86

K I T S	RE-RING KIT (cont.)		PREMIUM	ECONOMY	K I T S
	YEARS	DESCRIPTION	KIT NO.	KIT NO.	
	86-84	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	205-6157	----	
	86-84	CRX; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	205-6157M	----	

## 7 1.5L 1488cc SOHC L4 (12 Valve), 74mm Bore 1987-84

Eng. Codes "D15A1" 1987, "D15A2" 1987, "EW1" 1984-86, "EW2" 1984-86

V A L V E T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
		1	Timing Belt	87-86	222-B161	
	1	Timing Belt	85-84	222-99		
	1	Timing Belt Tensioner	87-84	222-126BT		
	1	Timing Belt & Tensioner Set	86	BTS-161		
	1	Timing Belt & Tensioner Set	84	BTS-161		
V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	1	Prelube	87-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
V A L V E T R A I N	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	4	Arm	87-86	R-976	"A"; Calif.	
	4	Arm	87-86	R-975	"B"; Calif.	
	2	Arm	87-86	R-974	Aux. "C"; Calif.	
	2	Arm	87-86	R-985	Aux. "D"; Calif.	
	4	Arm	85	R-976	"A"	
	4	Arm	85	R-975	"B"	
	4	Arm	85	R-974	Aux. "C"	
	4	Arm	85	R-985	Aux. "D"	
V A L V E T R A I N	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	4	Guide	87-84	VG-747	Exh.; .2605" ID, 2.1600" O.A.L.	
	4	Guide	87-84	VG-883	Int.; .2550" ID, 1.9600" O.A.L.	
V A L V E T R A I N	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	4	Valve Stem Seal	87-85	ST-2067	Exh.; Positive type; Rubber	
	4	Valve Stem Seal	87-85	ST-2066	Int.; Positive type; Rubber	
V A L V E T R A I N	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	4	Exh.	84	245-1375-55	Std Only 1.3820" OD, 1.1200" ID, .3250" Depth	
V A L V E T R A I N	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	V A L V E T R A I N
	16	Keeper	87-84	VK-235	Exh. & Int.	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Premium Set	87-85	E-512KC	Std Only 1-1.00MM, 1-1.30MM, 1-2.80MM	
	1	Premium Set	86-84	E-438KC	Std.-25-.50MM 2-1.20MM, 1-2.80MM	
	1	Standard Set	86-84	E-438X	Std Only 2-1.20MM, 1-2.80MM	
	4	Premium Single Cylinder Set	87-85	WE-512KC	Std Only 1-1.00MM, 1-1.30MM, 1-2.80MM	
	4	Premium Single Cylinder Set	86-84	WE-438KC	Std Only 2-1.20MM, 1-2.80MM	
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Main Set	87-85	6699MA	Std.-25-.50MM Eng. Code "EW1"; A-Series aluminum bearings	
	1	Main Set	87-84	7041M	Std Only	
	1	Thrust Washer Set	87-85	67341AF	Std Only Position 4	
	1	Rod Set	87-85	4-1520CP	Std.-25-.50MM	
B L O C K	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Kit Gasket Set	87-84	260-1483	Exc. Canada; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
K I T S	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	K I T S
	1	Brass Block Plug Kit	87-84	381-8032		
K I T S	RE-RING KIT		PREMIUM	ECONOMY	K I T S	
	YEARS	DESCRIPTION	KIT NO.	KIT NO.		
	87-85	Eng. Code "EW1"; Exc. Canada; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	205-6158M	----		

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1.5L 1488cc SOHC L4 (12 Valve), 74mm Bore 1987-84 <b>7</b>					
Eng. Codes "D15A1" 1987, "D15A2" 1987, "EW1" 1984-86, "EW2" 1984-86 (cont.)					
K I T S	RE-RING KIT (cont.)			PREMIUM	ECONOMY
	YEARS	DESCRIPTION		KIT NO.	KIT NO.
	87-85	Exc. Canada; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6158	----
86-85	Exc. Canada; Valve cover gskt. not incl.; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6157	----	

1.5L 1488cc SOHC L4 (12 Valve), 74mm Bore 1987-85 <b>8</b>				
Eng. Codes "D15A3" 1987, "EW3" 1985, "EW4" 1986				

V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt & Tensioner Set	87-86	BTS-161	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	87-85	CS-906	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	4	Arm	87-85	R-976	"A"
	4	Arm	87-85	R-975	"B"
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	4	Exhaust	87-85	V-2559 Std Only	Chrome plated stem; 1.3010" Head Dia., .2580" Stem Dia., 4.4800" O.A.L.
	8	Intake	87-85	V-2369 Std Only	Chrome plated stem; 1.0630" Head Dia., .2591" Stem Dia., 4.4370" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	87-85	VG-747	Exh.; .2605" ID, 2.1600" O.A.L.	
8	Guide	87-85	VG-883	Int.; .2550" ID, 1.9600" O.A.L.	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	87-85	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	87-85	VK-235		
B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	4	Cast Piston	87-85	13165P * Std-.25MM	Eng. Codes "EW3", "EW4" & "D15A3"; Use w/E-370KC or E-370X ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 29.8mm CD, 19.0mm Pin Dia., Recessed Head .119" deep x 2.350" dia. w/2 valve reliefs
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	87-85	E-438KC Std-.25-.50MM	2-1.20MM, 1-2.80MM
	1	Premium Set	87-85	E-370KC.50MM .50-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	87-85	E-438X Std Only	2-1.20MM, 1-2.80MM
	1	Standard Set	87-85	E-370X Std Only	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	87-85	WE-438KC Std Only	2-1.20MM, 1-2.80MM
	4	Premium Single Cylinder Set	87-85	WE-370KC Std Only	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	87-85	WE-370X Std-.50MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	87-85	7041M Std Only		
1	Thrust Washer Set	87-85	67341AF Std Only		
1	Rod Set	87-85	4-1520CP Std-.25-.50MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	87-85	260-1805	Exh. pipe to muffler gskt. not incl.; Flexible joint ring not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	

1.5L 1493cc SOHC L4 (16 Valve), 75mm Bore 1990-88 <b>9</b>				
Eng. Codes "D15B1" 1988-91, "D15B2" 1988-91, "D15B7" 1992-95, "D15Z1" 1992-95 (VTEC-E)				

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-143	Exc. Eng. Code "D15Z1"
1	Timing Belt Tensioner	90-88	222-162BT	Exc. Eng. Code "D15Z1"
1	Timing Belt & Tensioner Set	90-88	BTS-143	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-1577	
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Arm	90-88	R-977	Exh. "A"
2	Arm	90-88	R-980	Exh. "B"
2	Arm	90-88	R-979	Int. "A"

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## 9 1.5L 1493cc SOHC L4 (16 Valve), 75mm Bore 1990-88

(cont.) Eng. Codes "D15B1" 1988-91, "D15B2" 1988-91, "D15B7" 1992-95, "D15Z1" 1992-95 (VTEC-E)

<b>VALVE TRAIN</b>	<b>QTY</b>	<b>ROCKER PARTS</b> (cont.)	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	2	Arm	90-88	<b>R-978</b>	Int. "B"		
	1	Rocker Shaft	90-89	<b>RS-685</b>	Exh.; Exc. Eng. Code "D15Z1"		
	3	Rocker Shaft	90-89	<b>RS-680</b>	Int. "B" Center; Exc. Eng. Code "D15Z1"		
	1	Rocker Shaft	88	<b>RS-685</b>	Exh.		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Exhaust	90-88	<b>V-2561</b> Std Only	Exc. Eng. Code "D15Z1"; Chrome plated stem; .9850" Head Dia., .2150" Stem Dia., 4.6800" O.A.L.		
	8	Intake	90-88	<b>V-2560</b> Std Only	Exc. Eng. Code "D15Z1"; Nitrided stem; 1.1496" Head Dia., .2159" Stem Dia., 4.5276" O.A.L.		
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Guide	90-88	<b>VG-797</b>	Exh.; Eng. Codes "D15B1", "D15B2", "D15B6" & "D15B7"; .2173" ID, 2.1260" O.A.L.		
16	Guide	90-88	<b>VG-803</b>	Exh. & Int.; Eng. Code "D15Z1"; .2173" ID, 1.8700" O.A.L.			
8	Guide	90-88	<b>VG-803</b>	Int.; Eng. Codes "D15B1", "D15B2", "D15B6" & "D15B7"; .2173" ID, 1.8700" O.A.L.			
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
8	Spring	90-88	<b>VS-901</b>	Exh.; 1.9430" Free Height			
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
4	Exh.	90-88	<b>245-1062-50</b> Std Only	1.0695" OD, .7900" ID, .2540" Depth			
4	Int.	90-88	<b>245-1187-52</b> Std Only	1.1945" OD, .9340" ID, .2570" Depth			
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
32	Keeper	90-88	<b>VK-245</b>				
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	4	Cast Piston	90-88	<b>H836CP</b> Std-.50-.75-1.00MM	Eng. Code "D15B7"; Hypereutectic; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 30.8mm CD, 19.0mm Pin Dia., Flat Head w/4 valve reliefs		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	90-88	<b>E-515KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM		
	4	Premium Single Cylinder Set	90-88	<b>WE-515KC</b> Std-.50MM	1-1.20MM, 1-1.50MM, 1-2.80MM		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Main Set	90-88	<b>6699MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>		
	1	Thrust Washer Set	90-88	<b>67341AF</b> Std Only	Position 4		
	1	Rod Set	90-88	<b>4-1520CP</b> Std-.25-.50MM			
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-88	<b>224-43566</b>				
1	Screen Assy.	90-88	<b>224-14283</b>	Eng. Codes "D15B1" & "D15B2"			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	90-88	<b>260-1485</b>	Eng. Codes "D15B1" & "D15B2"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	90-88	<b>381-8065</b>	Eng. Code "D15B1"			
<b>KITS</b>	<b>RE-RING KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>					
	90-88	Eng. Codes "D15B1" & "D15B2"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring w/Mains			<b>205-6160M</b>	----
	90-88	Eng. Codes "D15B1" & "D15B2"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring			<b>205-6160</b>	----
<b>OVERHAUL KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
<b>YEARS</b>	<b>DESCRIPTION</b>						
90-88	Eng. Codes "D15B1" & "D15B2"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Cam kit & freeze plugs not incl.	Master w/o Pistons			<b>MK-6160A</b>	----	
<b>10 1.5L 1493cc SOHC L4 (8 Valve), 75mm Bore 1990-88</b>							
Eng. Codes "D15B6" 1988-91, "D15B8" 1992-95							
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Timing Belt	90	<b>222-145</b>	CRX			
1	Timing Belt	90-88	<b>222-143</b>				

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## 1.5L 1493cc SOHC L4 (8 Valve), 75mm Bore 1990-88 **10** Eng. Codes "D15B6" 1988-91, "D15B8" 1992-95 (cont.)

VALVE TRAIN	QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt Tensioner	90-88	222-162BT	
	1	Timing Belt & Tensioner Set	90	BTS-143	
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	1	Rocker Shaft	90-89	RS-685	Exh.
	3	Rocker Shaft	90-89	RS-680	Int. "B" Center
	1	Rocker Shaft	88	RS-685	Exh.
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	4	Exhaust	90-88	V-2561 Std Only	Chrome plated stem; .9850" Head Dia., .2150" Stem Dia., 4.6800" O.A.L.
	4	Intake	90-88	V-2560 Std Only	Nitrided stem; 1.1496" Head Dia., .2159" Stem Dia., 4.5276" O.A.L.
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	4	Guide	90-88	VG-797	Exh.; .2173" ID, 2.1260" O.A.L.
	4	Guide	90-88	VG-803	Int.; .2173" ID, 1.8700" O.A.L.
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	16	Keeper	90-88	VK-245	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90-88	6699MA Std-.25-.50MM	A-Series aluminum bearings
	1	Thrust Washer Set	90-88	67341AF Std Only	Position 4
	1	Rod Set	90-88	4-1520CP Std-.25-.50MM	
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	90-88	224-43566	
	1	Screen Assy.	90-88	224-14283	
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	90-88	260-1788	Eng. Code "D15B6"; Exh. pipe to muffler gskt. not incl.; Flexible joint ring not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	90-88	381-8065	

## 1.6L 1590cc DOHC L4 (16 Valve), 75mm Bore 1989-86 **11** Eng. Code "D16A1" 1986-89

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	89-86	222-130	
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	89-86	V-2624 Std Only	1.0610" Head Dia., .2580" Stem Dia., 4.1270" O.A.L.
	8	Intake	89-86	V-2625 Std Only	1.1790" Head Dia., .2590" Stem Dia., 4.1600" O.A.L.
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	89-88	VG-815	Exh.; .2605" ID, 1.9750" O.A.L.
	8	Guide	89-88	VG-814	Int.; .2605" ID, 1.9750" O.A.L.
	8	Guide	87	VG-815	Exh.; From Ser. No. 2011330; Calif.; .2605" ID, 1.9750" O.A.L.
	8	Guide	87	VG-815	Exh.; From Ser. No. 2235583; Exc. Calif.; .2605" ID, 1.9750" O.A.L.
	8	Guide	87	VG-814	Int.; From Ser. No. 2011330; Calif.; .2605" ID, 1.9750" O.A.L.
	8	Guide	87	VG-814	Int.; From Ser. No. 2235583; Exc. Calif.; .2605" ID, 1.9750" O.A.L.
	8	Guide	87	VG-883	Int.; To Ser. No. 2011329; Calif.; .2550" ID, 1.9600" O.A.L.
	8	Guide	87	VG-883	Int.; To Ser. No. 2235582; Exc. Calif.; .2550" ID, 1.9600" O.A.L.
	8	Guide	86	VG-883	Int.; .2550" ID, 1.9600" O.A.L.
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	87	ST-2149	Exh.; Calif.; From Ser. No. 2011330; Positive type
	8	Valve Stem Seal	87	ST-2084	Exh.; Calif.; From Ser. No. 2011330; Positive type; Rubber
	8	Valve Stem Seal	87	ST-2067	Exh.; Calif.; To Ser. No. 2011329; Positive type; Rubber
	8	Valve Stem Seal	87	ST-2149	Exh.; Exc. Calif.; From Ser. No. 2235583; Positive type
	8	Valve Stem Seal	87	ST-2084	Exh.; Exc. Calif.; From Ser. No. 2235583; Positive type; Rubber
	8	Valve Stem Seal	87	ST-2067	Exh.; Exc. Calif.; To Ser. No. 2235582; Positive type; Rubber
	8	Valve Stem Seal	87	ST-2066	Int.; Calif.; To Ser. No. 2011329; Positive type; Rubber
	8	Valve Stem Seal	87	ST-2066	Int.; Exc. Calif.; To Ser. No. 2235582; Positive type; Rubber
	8	Valve Stem Seal	86	ST-2067	Exh.; Calif.; Positive type; Rubber
	8	Valve Stem Seal	86	ST-2067	Exh.; Exc. Calif.; Positive type; Rubber
	8	Valve Stem Seal	86	ST-2066	Int.; Calif.; Positive type; Rubber

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## 11 1.6L 1590cc DOHC L4 (16 Valve), 75mm Bore 1989-86

(cont.) Eng. Code "D16A1" 1986-89

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	86	ST-2066	Int.; Exc. Calif.; Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	89-86	VK-235	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	89-86	E-515KC Std.-50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	89-86	WE-515KC Std.-50MM	1-1.20MM, 1-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-86	7102M Std.-25-.50MM	
1	Thrust Washer Set	89-86	1826AF Std Only	
1	Rod Set	89-86	4-4470P Std.-25-.50MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-86	381-8065	

## 12 1.6L 1590cc SOHC L4 (16 Valve), 75mm Bore 1990-88

Eng. Codes "D16A6" 1988-91, "D16B5" 1998-2000 (CNG), "D16Y5" 1996-2000 (VTEC), "D16Y7" 1996-2000, "D16Y8" 1996-2000 (VTEC), "D16Z6" 1992-95 (VTEC)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B224	Eng. Code "D16Z6"
1	Timing Belt	90-88	222-145	
1	Timing Belt Tensioner	90-88	222-162BT	
1	Timing Belt & Tensioner Set	90-88	BTS-145	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	90-88	R-977	Exh. "A"
4	Arm	90-88	R-980	Exh. "B"
4	Arm	90-88	R-979	Int. "A"
4	Arm	90-88	R-978	Int. "B"
1	Rocker Shaft	90-89	RS-685	Exh.
3	Rocker Shaft	90-89	RS-680	Int. "B" Center
1	Rocker Shaft	88	RS-685	Exh.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-88	V-2561 Std Only	Chrome plated stem; .9850" Head Dia., .2150" Stem Dia., 4.6800" O.A.L.
8	Intake	90-88	V-2560 Std Only	Nitrided stem; 1.1496" Head Dia., .2159" Stem Dia., 4.5276" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-88	VG-797	Exh.; .2173" ID, 2.1260" O.A.L.
8	Guide	90-88	VG-803	Int.; .2173" ID, 1.8700" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-88	VS-901	Exh.; 1.9430" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-88	245-1062-50 Std Only	1.0695" OD, .7900" ID, .2540" Depth
8	Int.	90-88	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	90-88	VK-245	Exh. & Int.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	90-88	4K13586P Std.-50-1.00MM	Eng. Code "D16A6"; Cast; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 1.154" CD, 19.0mm Pin Dia., Recessed Head .039" deep x 2.434" dia. w/4 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-515KC Std.-50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	90-88	WE-515KC Std.-50MM	1-1.20MM, 1-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7102M Std.-25-.50MM	
1	Thrust Washer Set	90-88	1826AF Std Only	
1	Rod Set	90-88	4-4470P Std.-25-.50MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-88	224-43566	Civic
1	Screen Assy.	90-88	224-14283	Eng. Code "D16A6"
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-88	260-1485	Eng. Code "D16A6"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8065	Eng. Code "D16A6"

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1.6L 1590cc SOHC L4 (16 Valve), 75mm Bore 1990-88 <b>12</b>					
Eng. Codes "D16A6" 1988-91, "D16B5" 1998-2000 (CNG), "D16Y5" 1996-2000 (VTEC), "D16Y7" (cont.) 1996-2000, "D16Y8" 1996-2000 (VTEC), "D16Z6" 1992-95 (VTEC)					
KITS	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.	
	YEARS	DESCRIPTION			
	90	Eng. Code "D16A6"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6432 205-6432M	---- ----
89-88	Eng. Code "D16A6"; Exh. flexible joint ring not incl.; Exh. pipe to muffler gskt. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6432 205-6432M	---- ----	
1.6L 1599cc SOHC L4 (12 Valve), 74mm Bore 1978-76 <b>13</b>					
Eng. Codes "EF1" 1976-78, "EF2" 1976-78, "EG" 1978-79					
BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	78-76	222-41	
	1	Cam Sprocket	78-76	223-590	40 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	8	Arm Assy.	78-76	R-1069	Incl. arm, screw & nut
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	4	Guide	78-76	VG-747	Exh.; .2605" ID, 2.1600" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	4	Valve Stem Seal	78-76	ST-2066	Int.; Positive type; Rubber
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	78-76	E-370KC.50MM	.50-.75MM 2-1.50MM, 1-4.00MM	
1	Standard Set	78-76	E-370X Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	78-76	WE-370KC Std Only	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	78-76	WE-370X Std-.50MM	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	78-76	6793M Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	
1	Thrust Washer Set	78-76	67341AF Std Only	Position 4	
1	Rod Set	78-76	4-67345CP Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	78-76	381-8032		
1.8L 1751cc SOHC L4 (12 Valve), 77mm Bore 1983-79 <b>14</b>					
Eng. Code "EK1" 1979-83					
BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	83-79	222-41	
	1	Cam Sprocket	82-79	223-590	40 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	8	Arm Assy.	81-79	R-1069	Incl. arm, screw & nut
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	4	Guide	83-79	VG-748	Exh.; .2770" ID, 2.1700" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	4	Valve Stem Seal	83-79	ST-2058	Exh.; Positive type; Rubber
	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	82	12325P1.00MM 1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 27.5mm CD, 18.0mm Pin Dia., Recessed Head 1.30mm deep	
4	Cast Piston	80	12325P1.00MM 1.00MM	Eng. Code "EK1"; Calif.; w/A/T; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 27.5mm CD, 18.0mm Pin Dia., Recessed Head 1.30mm deep	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	83-79	E-402KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	83-79	E-402X Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	83-79	WE-402KC Std-.50MM	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	83-79	WE-402X Std Only	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	83-79	6793M Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	
1	Thrust Washer Set	83-79	67341AF Std Only	Position 4	

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## 14 1.8L 1751cc SOHC L4 (12 Valve), 77mm Bore 1983-79

(cont.) Eng. Code "EK1" 1979-83

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	(cont.) Rod Set	83-79	4-67345CP Std-.25MM	Undersize brgs. can be used, but the surface hardness of the crankshaft should be restored after grinding through a suitable heat treatment process	
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
	1	Oil Pump	82	224-41989	Prelude; w/A/T; 2 stage pump w/rotor thicknesses of .787" & .393"	
1	Oil Pump	81-79	224-41989	2 stage pump w/rotor thicknesses of .787" & .393"		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	83-79	381-8032			

## 15 1.8L 1829cc SOHC L4 (12 Valve), 80mm Bore 1987-83

Eng. Codes "A18A1" 1987, "A18A2" 1987, "ES1" 1983, "ES2" 1984-85, "ES3" 1985, "ET1" 1984-85, "ET2" 1984-86

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Belt	87-86	222-B160		
	1	Timing Belt	85-83	222-94		
	1	Timing Belt Tensioner	87-84	222-163BT	Exc. Hi Alt.	
1	Timing Belt & Tensioner Set	87-83	BTS-160			
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	85-84	CS-847	Eng. Code "ES3"		
1	Prelube	87-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION		
1	Cam/Flwr. Kit	85-84	KC-847	Eng. Code "ES3"; Incl. (1) CS-847, (6) R-1000, (6) R-999, (1) 55-403B		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
6	Arm	87-84	R-1000	"A"		
6	Arm	87-84	R-999	"B"		
4	Arm	83	R-1000	"A"; From Ser. No. 1002527; Calif.		
4	Arm	83	R-1000	"A"; From Ser. No. 1510625; Exc. Calif. & Hi Alt.		
4	Arm	83	R-1000	"A"; From Ser. No. 1900370; Hi Alt.		
4	Arm	83	R-979	"A"; To Ser. No. 1510624; Exc. Calif. & Hi Alt.		
4	Arm	83	R-999	"B"; From Ser. No. 1002527; Calif.		
4	Arm	83	R-999	"B"; From Ser. No. 1510625; Exc. Calif. & Hi Alt.		
4	Arm	83	R-999	"B"; From Ser. No. 1900370; Hi Alt.		
4	Arm	83	R-978	"B"; To Ser. No. 1002526; Calif.		
4	Arm	83	R-979	"B"; To Ser. No. 1002526; Calif.		
4	Arm	83	R-978	"B"; To Ser. No. 1510624; Exc. Calif. & Hi Alt.		
4	Arm	83	R-978	"B"; To Ser. No. 1900369; Hi Alt.		
4	Arm	83	R-979	"B"; To Ser. No. 1900369; Hi Alt.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	87-83	V-2366X Std Only	Chrome plated stem; 1.3780" Head Dia., .2734" Stem Dia., 4.7560" O.A.L.		
4	Intake	87-86	V-3938 Std Only	Nitrided stem; 1.1810" Head Dia., .2591" Stem Dia., 4.7420" O.A.L.		
4	Intake	85-84	V-3938 Std Only	Eng. Codes "ES3" & "ET2"; Nitrided stem; 1.1810" Head Dia., .2591" Stem Dia., 4.7420" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
4	Guide	87-83	VG-748	Exh.; .2770" ID, 2.1700" O.A.L.		
4	Guide	87-83	VG-883	Int.; .2550" ID, 1.9600" O.A.L.		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
4	Valve Stem Seal	87-83	ST-2058	Exh.; Positive type; Rubber		
4	Valve Stem Seal	87-83	ST-2066	Int.; Positive type; Rubber		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
8	Keeper	87-83	VK-235	Int.		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK	
4	Cast Piston	87-83	13162P Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 29.8mm CD, 20.0mm Pin Dia., Recessed Head .047" deep x 2.820" dia.		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
1	Premium Set	87-83	E-554KC Std Only	2-1.50MM, 1-4.00MM		
1	Standard Set	87-83	E-554X Std Only	2-1.50MM, 1-4.00MM		
4	Premium Single Cylinder Set	87-83	WE-554KC Std Only	2-1.50MM, 1-4.00MM		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	87-83	7035M Std-.25-.50MM			
1	Thrust Washer Set	87-83	67341AF Std Only	Position 4		
1	Rod Set	87-83	4-1495CP Std-.25-.50MM			

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<b>1.8L 1829cc SOHC L4 (12 Valve), 80mm Bore 1987-83 15</b> Eng. Codes "A18A1" 1987, "A18A2" 1987, "ES1" 1983, "ES2" 1984-85, "ES3" 1985, "ET1" 1984-85, (cont.) "ET2" 1984-86						
<b>BLOCK</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	87-83	224-41964		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	85-84	260-1486	Eng. Code "ES2"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	87-83	381-8065			
<b>RE-RING KIT</b> <b>YEARS DESCRIPTION</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
85-84 Eng. Code "ES2"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.				Re-ring 205-6161	Re-ring w/Mains ----- 205-6161M	
<b>1.8L 1834cc DOHC L4 (16 Valve), 81mm Bore 1990 16</b> Eng. Codes "B18A1" 1990-93, "B18B1" 1994-2001						
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	90	222-B184		
	1	Timing Belt Tensioner	90	222-262BT		
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Arm	90	R-998		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Exhaust	90	V-2547 Std Only	Nitrided stem; 1.1024" Head Dia., .2578" Stem Dia., 4.1730" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Guide	90	VG-815	Exh.; .2605" ID, 1.9750" O.A.L.	
	8	Guide	90	VG-814	Int.; .2605" ID, 1.9750" O.A.L.	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal	90	ST-2149	Exh. & Int.; Positive type		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4		90	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
32	Keeper	90	VK-235			
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cast Piston Set w/Prem. Rings	90	4K13584P Std Only	Cast; 1-1.00mm, 1-1.20mm, 1-2.00mm Ring Groove, 1.169" CD, .8270" Pin Dia., Recessed Head .068" deep x 2.624" dia. w/4 valve reliefs	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90	E-646KC Std-.50-1.00MM	1-1.00MM, 1-1.20MM, 1-2.80MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90	7324M Std-.25MM		
1	Thrust Washer Set	90	1828F Std Only			
1	Rod Set	90	4-1495CP Std-.25-.50MM			
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90	224-41997			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90	260-1760	Eng. Codes "B18A1" & "B18B1"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.		
<b>RE-RING KIT</b> <b>YEARS DESCRIPTION</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90 Eng. Codes "B18A1" & "B18B1"; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.				Re-ring 205-6874	Re-ring w/Mains ----- 205-6874M	
<b>2.0L 1955cc SOHC L4 (12 Valve), 82.7mm Bore 1989-85 17</b> Eng. Codes "A20A1" 1987-89, "A20A2" 1987, "A20A3" 1987-89, "A20A4" 1987, "BS1" 1986, "BS2" 1986, "BT1" 1985, "BT2" 1986						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Timing Belt	89-86	222-B160			
1	Timing Belt	85	222-94	Eng. Code "BT"		
1	Timing Belt Tensioner	89-85	222-163BT			
1	Timing Belt & Tensioner Set	89-85	BTS-160			
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Camshaft	89-85	CS-847			

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## 17 2.0L 1955cc SOHC L4 (12 Valve), 82.7mm Bore 1989-85

(cont.) Eng. Codes "A20A1" 1987-89, "A20A2" 1987, "A20A3" 1987-89, "A20A4" 1987, "BS1" 1986, "BS2" 1986, "BT1" 1985, "BT2" 1986

QTY		CAMSHAFT/LIFTER			DESCRIPTION
		(cont.)	YEARS	PART NO.	
1		Prelube	89-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY		CAM KIT			DESCRIPTION
1		Cam/Flwr. Kit	89-85	KC-847	Incl. (1) CS-847, (6) R-1000, (6) R-999, (1) 55-403B
QTY		ROCKER PARTS			DESCRIPTION
4		Arm	89-85	R-999	Exh. "B"
4		Arm	89-85	R-1000	Int. "A"
QTY		VALVE			DESCRIPTION
4		Exhaust	89-85	V-2366X Std Only	Chrome plated stem; 1.3780" Head Dia., .2734" Stem Dia., 4.7560" O.A.L.
4		Intake	89-85	V-3938 Std Only	Nitrided stem; 1.1810" Head Dia., .2591" Stem Dia., 4.7420" O.A.L.
QTY		VALVE GUIDE			DESCRIPTION
4		Guide	89-85	VG-748	Exh.; .2770" ID, 2.1700" O.A.L.
4		Guide	89-85	VG-883	Int.; .2550" ID, 1.9600" O.A.L.
QTY		VALVE SPRING			DESCRIPTION
4		Spring	89-87	VS-894	Exh. Inner; 1.6770" Free Height
QTY		VALVE SEAL			DESCRIPTION
4		Valve Stem Seal	89-85	ST-2058	Exh.; Positive type; Rubber
4		Valve Stem Seal	89-85	ST-2066	Int.; Positive type; Rubber
QTY		VALVE, MISC			DESCRIPTION
8		Keeper	89-85	VK-235	Int.
QTY		PISTON			DESCRIPTION
4		Cast Piston	89-88	13502P Std Only	Eng. Code "A20A1"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston	89-88	13502P Std Only	Eng. Code "A20A3"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston	87	13502P Std Only	Eng. Codes "A20A1" & "A20A2"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston	87	13502P Std Only	Eng. Codes "A20A3" & "A20A4"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston	86	13502P Std Only	Eng. Code "BS1"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston	86	13502P Std Only	Eng. Codes "BS2" & "BT2"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	89-88	W13502P Std Only	Eng. Code "A20A1"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	89-88	W13502P Std Only	Eng. Code "A20A3"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	87	W13502P Std Only	Eng. Codes "A20A1" & "A20A2"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	87	W13502P Std Only	Eng. Codes "A20A3" & "A20A4"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	86	W13502P Std Only	Eng. Code "BS1"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
4		Cast Piston - Individual	86	W13502P Std Only	Eng. Codes "BS2" & "BT2"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 30.0mm CD, 20.0mm Pin Dia., Recessed Head 2.50mm deep x 70.00mm dia. w/4 valve reliefs
QTY		RINGS			DESCRIPTION
1		Premium Set	89-85	E-526KC Std Only	2-1.50MM, 1-4.00MM
4		Premium Single Cylinder Set	89-85	WE-526KC Std Only	2-1.50MM, 1-4.00MM
QTY		ENGINE BEARINGS			DESCRIPTION
1		Main Set	89-85	7035M Std-.25-.50MM	
1		Thrust Washer Set	89-85	67341AF Std Only	Position 4

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2.0L 1955cc SOHC L4 (12 Valve), 82.7mm Bore 1989-85 <b>17</b>						
Eng. Codes "A20A1" 1987-89, "A20A2" 1987, "A20A3" 1987-89, "A20A4" 1987, "BS1" 1986, "BS2" 1986, "BT1" 1985, "BT2" 1986 (cont.)						
<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	(cont.) Rod Set	89-85	4-1495CP	Std-.25-.50MM	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	89-86	224-41964		
<b>B L O C K</b>	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	89-85	260-1488	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
<b>K I T S</b>	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	89-85	381-8065		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			205-6163	----
<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		Master w/o Pistons	MK-6163A	----
2.0L 1958cc DOHC L4 (16 Valve), 81mm Bore 1990-88 <b>18</b>						
Eng. Code "B20A5" 1988-91						
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Belt	90-88	222-142		
	1	Timing Belt Tensioner	90-88	222-202BT		
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Arm	90-88	R-998		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Exhaust	90-88	V-2547	Std Only Nitrided stem; 1.1024" Head Dia., .2578" Stem Dia., 4.1730" O.A.L.	
	8	Intake	90-88	V-2548	Std Only Nitrided stem; 1.2990" Head Dia., .2590" Stem Dia., 4.1100" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Guide	90-88	VG-815	Exh.; .2605" ID, 1.9750" O.A.L.	
	8	Guide	90-88	VG-814	Int.; .2605" ID, 1.9750" O.A.L.	
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	90-88	ST-2067	Exh.; Positive type; Rubber		
8	Valve Stem Seal	90-88	ST-2066	Int.; Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Int.	90-88	245-1375-55	Std Only 1.3820" OD, 1.1200" ID, .3250" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	90-88	VK-235	Int.		
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90-88	E-517KC	Std-.50MM 1-1.20MM, 1-1.50MM, 1-2.80MM	
	4	Premium Single Cylinder Set	90-88	WE-517KC	Std Only 1-1.20MM, 1-1.50MM, 1-2.80MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-88	7102M	Std-.25-.50MM	
	1	Thrust Washer Set	90-88	1826AF	Std Only	
1	Rod Set	90-88	4-1825CP	Std-.25-.50-.75MM		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-88	224-41965			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-88	381-8065			
2.0L 1958cc SOHC L4 (12 Valve), 81mm Bore 1990-88 <b>19</b>						
Eng. Code "B20A3" 1988-90						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Timing Belt Tensioner	90-88	222-202BT			
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Arm	90-88	R-1000	"A"		
4	Arm	90-88	R-999	"B"		

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## 19 2.0L 1958cc SOHC L4 (12 Valve), 81mm Bore 1990-88

(cont.) Eng. Code "B20A3" 1988-90

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-88	V-2366X Std Only	Chrome plated stem; 1.3780" Head Dia., .2734" Stem Dia., 4.7560" O.A.L.
8	Intake	90-88	V-3938 Std Only	Nitrided stem; 1.1810" Head Dia., .2591" Stem Dia., 4.7420" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-88	VG-748	Exh.; .2770" ID, 2.1700" O.A.L.
8	Guide	90-88	VG-883	Int.; .2550" ID, 1.9600" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
4	Spring	90-88	VS-894	Exh. Inner; 1.6770" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-88	VK-235	Int.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-517KC Std-.50MM	1-1.20MM, 1-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	90-88	WE-517KC Std Only	1-1.20MM, 1-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7102M Std-.25-.50MM	
1	Thrust Washer Set	90-88	1826AF Std Only	
1	Rod Set	90-88	4-1495CP Std-.25-.50MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-88	224-41965	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8065	

## 20 2.1L 2056cc DOHC L4 (16 Valve), 83mm Bore 1990

Eng. Code "B21A1" 1990-91

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-142	
1	Timing Belt Tensioner	90	222-202BT	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90	R-998	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90	V-2638 Std Only	Chrome plated stem; 1.1000" Head Dia., .2560" Stem Dia., 4.1250" O.A.L.
8	Intake	90	V-2548 Std Only	Nitrided stem; 1.2990" Head Dia., .2590" Stem Dia., 4.1100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90	VG-815	Exh.; .2605" ID, 1.9750" O.A.L.
8	Guide	90	VG-814	Int.; .2605" ID, 1.9750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90	VS-1425	Exh. Outer; 1.8100" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2149	Positive type
16	Valve Stem Seal	90	ST-2084	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	90	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90	VK-235	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-555KC Std-.50MM	2-1.20MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7102M Std-.25-.50MM	
1	Thrust Washer Set	90	1826AF Std Only	
1	Rod Set	90	4-1825CP Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-41965	

## 21 2.2L 2156cc SOHC L4 (16 Valve), 85mm Bore 1990

Eng. Codes "F22A1" 1990-96, "F22A4" 1990-91, "F22A6" 1991-93, "F22B1" 1994-97 (VTEC), "F22B2" 1994-97

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B187	Exc. Eng. Code "F22B1"; 113 Teeth
1	Timing Belt Tensioner	90	222-203BT	
1	Timing Belt & Tensioner Set	90	BTS-187 *	
1	Bal. Shaft Belt	90	222-B186	70 Teeth

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**2.2L 2156cc SOHC L4 (16 Valve), 85mm Bore 1990 21**

Eng. Codes "F22A1" 1990-96, "F22A4" 1990-91, "F22A6" 1991-93, "F22B1" 1994-97 (VTEC), "F22B2" (cont.) 1994-97

	QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	1	Bal. Shaft Belt Tensioner	90	222-204BT	
	1	<b>CAMSHAFT/LIFTER</b>	90	<b>CAMSHAFT</b>	<b>DESCRIPTION</b>
	1	Camshaft	90	CS-1578	Exc. Eng. Code "F22B1"
	1	Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	8	<b>ROCKER PARTS</b>	90	<b>ROCKER PARTS</b>	<b>DESCRIPTION</b>
	4	Arm	90	R-1012	Exh.
	4	Arm	90	R-1010	Int. "A"
	4	Arm	90	R-1011	Int. "B"
	1	Rocker Shaft	90	RS-701	Exh.
	2	Rocker Shaft	90	RS-703	Int. "A"
	3	Rocker Shaft	90	RS-702	Int. "B"
	8	<b>VALVE</b>	90	<b>VALVE</b>	<b>DESCRIPTION</b>
	8	Exhaust	90	V-2565X Std Only	Chrome plated stem; 1.1420" Head Dia., .2148" Stem Dia., 4.8620" O.A.L.
	8	Intake	90	V-2566 Std Only	Chrome plated stem; 1.3390" Head Dia., .2150" Stem Dia., 4.4100" O.A.L.
	8	<b>VALVE GUIDE</b>	90	<b>VALVE GUIDE</b>	<b>DESCRIPTION</b>
8	Guide	90	VG-797	Exh.; .2173" ID, 2.1260" O.A.L.	
8	Guide	90	VG-803	Int.; .2173" ID, 1.8700" O.A.L.	
8	<b>VALVE SPRING</b>	90	<b>VALVE SPRING</b>	<b>DESCRIPTION</b>	
8	Spring	90	VS-957	Exh.; 2.1600" Free Height	
8	Spring	90	VS-1418	Int.; 2.2100" Free Height	
16	<b>VALVE SEAL</b>	90	<b>VALVE SEAL</b>	<b>DESCRIPTION</b>	
16	Valve Stem Seal	90	ST-2124	Exh. & Int.; Positive type; Viton®	
8	<b>VALVE SEAT</b>	90	<b>VALVE SEAT</b>	<b>DESCRIPTION</b>	
8	Exh.	90	245-1375-65 Std Only	1.3750" OD, 1.1650" ID, .3100" Depth	
8	Int.	90	245-1250-64 Std Only	1.2500" OD, .9700" ID, .2700" Depth	
32	<b>VALVE, MISC</b>	90	<b>VALVE, MISC</b>	<b>DESCRIPTION</b>	
32	Keeper	90	VK-245		
BLOCK	4	<b>PISTON</b>	90	<b>PISTON</b>	<b>DESCRIPTION</b>
	4	Cast Piston	90	H828P Std-.50-.75-1.00MM	Hypereutectic; 2-1.20mm, 1-2.80mm Ring Groove, 1.203" CD, .8664" Pin Dia., Recessed Head .145" deep x 2.935" dia.
	1	<b>RINGS</b>	90	<b>RINGS</b>	<b>DESCRIPTION</b>
	4	Premium Set	90	E-556KC Std-.50-.75-1.00MM	2-1.20MM, 1-2.80MM
	4	Premium Single Cylinder Set	90	WE-556KC Std Only	2-1.20MM, 1-2.80MM
	1	<b>ENGINE BEARINGS</b>	90	<b>ENGINE BEARINGS</b>	<b>DESCRIPTION</b>
	1	Main Set	90	7103M Std-.25-.50MM	
	1	Thrust Washer Set	90	1203BF Std Only	Position 4
	1	Rod Set	90	4-1825CP Std-.25-.50-.75MM	
	1	<b>OIL PUMP</b>	90	<b>OIL PUMP</b>	<b>DESCRIPTION</b>
1	Oil Pump	90	224-41977		
1	Screen Assy.	90	224-14285	Exc. Eng. Codes "F22A6" & "F22B1"	
1	<b>GASKETS</b>	90	<b>GASKETS</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90	260-1734	Eng. Code "F22A4"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	90	260-1733	Eng. Codes "F22A1" & "F22A6"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90	Eng. Codes "F22A1" & "F22A6"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6420	----
			Re-ring w/Mains	205-6420M	----
	90	Eng. Code "F22A4"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6423	----
		Re-ring w/Mains	205-6423M	----	
<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90	Eng. Code "F22A4"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block	BK-6275	----	

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# Honda Car

**21 2.2L 2156cc SOHC L4 (16 Valve), 85mm Bore 1990**  
 (cont.) Eng. Codes "F22A1" 1990-96, "F22A4" 1990-91, "F22A6" 1991-93, "F22B1" 1994-97 (VTEC), "F22B2" 1994-97

<b>OVERHAUL KIT</b> (cont.)		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		
90	Eng. Codes "F22A1" & "F22A6"; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	<b>BK-6276</b>	----

**22 2.5L 2494cc SOHC V6 (24 Valve), 84mm Bore 1987-86**  
 Eng. Code "C25A1" 1986-87

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	87-86	<b>222-129</b>	
1	Timing Belt Tensioner	87-86	<b>222-198BT</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Exhaust	87-86	<b>V-2627</b> Std Only	1.0830" Head Dia., .2578" Stem Dia., 4.2000" O.A.L.
12	Intake	87-86	<b>V-2548</b> Std Only	Nitrided stem; 1.2990" Head Dia., .2590" Stem Dia., 4.1100" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	87-86	<b>ST-2149</b>	Exh.; Positive type
12	Valve Stem Seal	87-86	<b>ST-2084</b>	Exh.; Positive type; Rubber
12	Valve Stem Seal	87-86	<b>ST-2066</b>	Int.; Positive type; Rubber
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
48	Keeper	87-86	<b>VK-235</b>	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	87-86	<b>4481F</b> Std Only	
1	Rod Set	87-86	<b>6-4480P</b> Std Only	

**23 2.7L 2675cc SOHC V6 (24 Valve), 87mm Bore 1990-87**  
 Eng. Codes "C27A1" 1987-90, "C27A4" 1995-97

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-87	<b>222-129</b>	
1	Timing Belt Tensioner	90-87	<b>222-198BT</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Exhaust	90-88	<b>V-2547</b> Std Only	Nitrided stem; 1.1024" Head Dia., .2578" Stem Dia., 4.1730" O.A.L.
12	Exhaust	90-88	<b>V-2627</b> Std Only	1.0830" Head Dia., .2578" Stem Dia., 4.2000" O.A.L.
12	Exhaust	87	<b>V-2627</b> Std Only	1.0830" Head Dia., .2578" Stem Dia., 4.2000" O.A.L.
12	Intake	90-87	<b>V-2548</b> Std Only	Nitrided stem; 1.2990" Head Dia., .2590" Stem Dia., 4.1100" O.A.L.
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
48	Keeper	90-87	<b>VK-235</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-87	<b>E-631KC</b> Std Only	2-1.20MM, 1-4.00MM
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90-88	<b>224-43422</b>	w/Switch

<b>Engine Finding Index</b>					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.2L 132 OHV L4 3.25" Bore (8 Valve) L/D Truck....		1	4.3L 264 OHV L6 3.6875" Bore (12 Valve) L/D Truck.....	1968-59	16
2.5L 152 OHV L4 3.875" Bore (8 Valve) L/D Truck..	1968-61	2	4.3L 266 OHV V8 3.625" Bore (16 Valve) L/D Truck.....	1972-59	17
2.9L 175 L-HEAD L6 3" Bore (12 Valve) L/D Truck .		3	4.4L 269 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....		18
3.2L 193 L-HEAD L6 3.25" Bore (12 Valve) L/D Truck.....		4	5.0L 304 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	1980-60	19
3.2L 196 OHV L4 4.125" Bore (8 Valve) L/D Truck..	1980-67	5	5.0L 304 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	1980-67	20
3.2L 198 (3246cc) OHV Diesel L6 83mm Bore (12 Valve) (Nissan Eng.) L/D Truck .....	1980-77	6	5.6L 345 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	1980-67	21
3.5L 214 L-HEAD L6 3.3125" Bore (12 Valve) L/D Truck.....		7	5.6L 345 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	1980-67	22
3.6L 220 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	1968-50	8	5.9L 361 OHV L6 4.125" Bore (12 Valve) L/D Truck.....		23
3.8L 232 OHV L6 3.75" Bore (Hi Torque) (AMC Eng.) L/D Truck.....	1972-69	9	6.4L 392 OHV V8 4.125" Bore (16 Valve) L/D Truck.....	1975-68	24
3.8L 233 L-HEAD L6 3.3125" Bore (12 Valve) L/D Truck.....		10	6.6L 401 OHV L6 4.125" Bore (12 Valve) L/D Truck.....	1969-49	25
3.9L 240 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	1968-58	11	6.6L 401 OHV V8 4.165" Bore (AMC Eng.) L/D Truck.....	1974	26
4.0L 242 OHV L6 3.375" Bore (12 Valve) L/D Truck.....		12	7.3L 444 OHV Diesel V8 4.1102" Bore (IDI) L/D Truck.....	1989	27
4.1L 250 OHV L6 3.4375" Bore (12 Valve) L/D Truck.....		13			
4.2L 258 OHV L6 3.75" Bore (AMC Eng.) L/D Truck.....	1974-72	14			
4.3L 260 OHV L6 3.5" Bore (12 Valve) L/D Truck....		15			

<b>Engine Code Index</b>					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
BD220.....	3.6L 220 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	8	V304E.....	5.0L 304 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	19
BD240.....	3.9L 240 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	11	V304E LPG.....	5.0L 304 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	20
BD264.....	4.3L 264 OHV L6 3.6875" Bore (12 Valve) L/D Truck.....	16	V345.....	5.6L 345 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	21
BG220.....	3.6L 220 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	8	V345 LPG.....	5.6L 345 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	22
BG241.....	3.9L 240 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	11	V345E.....	5.6L 345 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	21
BG264.....	4.3L 264 OHV L6 3.6875" Bore (12 Valve) L/D Truck.....	16	V345E LPG.....	5.6L 345 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	22
BG265.....	4.3L 264 OHV L6 3.6875" Bore (12 Valve) L/D Truck.....	16	V392.....	6.4L 392 OHV V8 4.125" Bore (16 Valve) L/D Truck.....	24
B152.....	2.5L 152 OHV L4 3.875" Bore (8 Valve) L/D Truck.....	2	V392E.....	6.4L 392 OHV V8 4.125" Bore (16 Valve) L/D Truck.....	24
SD220.....	3.6L 220 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	8	V400.....	6.6L 401 OHV V8 4.165" Bore (AMC Eng.) L/D Truck.....	26
SD240.....	3.9L 240 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	11	4-152.....	2.5L 152 OHV L4 3.875" Bore (8 Valve) L/D Truck.....	2
SD264.....	4.3L 264 OHV L6 3.6875" Bore (12 Valve) L/D Truck.....	16	4-196.....	3.2L 196 OHV L4 4.125" Bore (8 Valve) L/D Truck.....	5
U220.....	3.6L 220 OHV L6 3.5625" Bore (12 Valve) L/D Truck.....	8	4-196E.....	3.2L 196 OHV L4 4.125" Bore (8 Valve) L/D Truck.....	5
V266.....	4.3L 266 OHV V8 3.625" Bore (16 Valve) L/D Truck.....	17	6-232.....	3.8L 232 OHV L6 3.75" Bore (Hi Torque) (AMC Eng.) L/D Truck.....	9
V304.....	5.0L 304 OHV V8 3.875" Bore (16 Valve) L/D Truck.....	19	6-258.....	4.2L 258 OHV L6 3.75" Bore (AMC Eng.) L/D Truck.....	14
V304 LPG.....	5.0L 304 OHV LPG V8 3.875" Bore (16 Valve) L/D Truck.....	20	7.3L Diesel.....	7.3L 444 OHV Diesel V8 4.1102" Bore (IDI) L/D Truck.....	27

<b>2.2L 132 OHV L4 (8 Valve), 3.25" Bore L/D Truck FC, FC132, FK132 Engs.</b>					<b>1</b>
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Pin Bushing		<b>9629X</b>	Bushing w/1/16" dia. oil hole	
<b>2.5L 152 OHV L4 (8 Valve), 3.875" Bore 1968-61 L/D Truck B152, 4-152 Engs.</b>					<b>2</b>
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Gear Set	68-61	<b>221-3336S</b>		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Lifter	68-61	<b>HT-855</b> Std Only	Hyd.	
8	Lifter, Bulk	68-61	<b>HT-855B</b> Std Only	Hyd.; Carton of 96	

(continued on next page)

# IHC Truck

## 2 2.5L 152 OHV L4 (8 Valve), 3.875" Bore 1968-61 (cont.) L/D Truck B152, 4-152 Eng.

QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	68-61	RP-3131	Ball & socket type; Use w/fabricated arm w/welded ball; 8.9500" O.A.L.
4	ROCKER PARTS Arm	68-61	R-884	DESCRIPTION Int.; Boat type rocker arm; Stamped steel; Use w/Ball & ball end push rod
4	VALVE Exhaust	68-61	V-2524X Std Only	DESCRIPTION Chrome plated stem; 1.6090" Head Dia., .3720" Stem Dia., 5.4730" O.A.L.
4	Intake	68-61	V-2525 Std Only	DESCRIPTION Chrome plated stem; 1.9690" Head Dia., .3725" Stem Dia., 5.2230" O.A.L.
8	VALVE SPRING Spring	68-61	VS-693	DESCRIPTION Incl. damper; 2.0500" Free Height
8	VALVE SEAL Valve Stem Seal	68-61	ST-2004	DESCRIPTION Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	68-61	MV-1233C	O-Ring; Rubber
8	Valve Stem Seal Bulk	68-61	MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk	68-61	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
16	VALVE, MISC Keeper	68-61	VK-138	DESCRIPTION 1 groove; Square cut key groove
16	Keeper	68-61	VK-138R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	68-61	VK-138B	1 groove; Square cut key groove; Carton of 1000
4	Rotocap	68-61	RC-126S	Exh.
4	PISTON Cast Piston	68-61	H1117CP Std-20-30-40-60	DESCRIPTION w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; DurOshield® skirt coated piston
4	Cast Piston - Individual	68-61	WH1117CP * Std-20-30-40-60	w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; DurOshield® skirt coated piston
6	SLEEVE Repair Sleeve	68-61	SL-20Y Std Only	DESCRIPTION 1/8" wall, must be cut to correct length
1	ENGINE BEARINGS Main Set	68-61	4070M Std-10-20-30	DESCRIPTION
4	Rod Pair	68-61	2800P Std-10	
1	Cam Set	68-61	1218M Std Only	
1	OIL PUMP Oil Pump	68-61	224-41187	DESCRIPTION Repl. O.E. No. 151075R93
1	Pump Repair Kit	68-61	224-51187	
<b>3 2.9L 175 L-HEAD L6 (12 Valve), 3" Bore L/D Truck</b>				
6	PISTON Pin Bushing	YEARS	PART NO. 9219X	DESCRIPTION Full round bushing w/1.110" length
6	Pin Bushing		9219V	Split type bushing w/1.120" length
1	ENGINE BEARINGS Cam Set	YEARS	PART NO. 1091M Std Only	DESCRIPTION
<b>4 3.2L 193 L-HEAD L6 (12 Valve), 3.25" Bore L/D Truck HD Eng.</b>				
6	PISTON Pin Bushing	YEARS	PART NO. 9219X	DESCRIPTION Full round bushing w/1.110" length
6	Pin Bushing		9219V	Split type bushing w/1.120" length
1	ENGINE BEARINGS Cam Set	YEARS	PART NO. 1091M Std Only	DESCRIPTION
<b>5 3.2L 196 OHV L4 (8 Valve), 4.125" Bore 1980-67 L/D Truck 4-196, 4-196E Eng.</b>				
1	TIMING Gear Set	YEARS	PART NO. 221-3336S	DESCRIPTION
8	CAMSHAFT/LIFTER Lifter	YEARS	PART NO. HT-855 Std Only	DESCRIPTION Hyd.
8	Lifter, Bulk	80-67	HT-855B Std Only	Hyd.; Carton of 96

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# IHC Truck

<b>3.2L 196 OHV L4 (8 Valve), 4.125" Bore 1980-67 5</b>					
<b>L/D Truck 4-196, 4-196E Engs. (cont.)</b>					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Push Rod	80-67	<b>RP-3133</b>	Ball & ball type ends; Use w/boat type rocker arms; 9.7790" O.A.L.
	8	Push Rod	80-67	<b>RP-3132</b>	Ball & socket type; Use w/fabricated arm w/welded ball; 9.7500" O.A.L.
	8	Push Rod, Bulk	80-67	<b>BRP-3133</b>	Ball & ball type ends; Use w/boat type rocker arms; Carton of 100; 9.7790" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Arm	80-67	<b>R-884</b>	Int.; Boat type rocker arm; Stamped steel; Use w/Ball & ball end push rod
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	80-67	<b>V-1834X</b> Std Only	1.7340" Head Dia., .4145" Stem Dia., 5.4800" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Guide	80-67	<b>VG-646</b>	Exh.; .4180" ID, 2.9060" O.A.L.
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Spring	80-67	<b>VS-693</b>	Incl. damper; 2.0500" Free Height
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Valve Stem Seal	80-67	<b>MV-1233C</b>	O-Ring; Rubber
	8	Valve Stem Seal Bulk	80-67	<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Keeper	80-67	<b>VK-138</b>	1 groove; Square cut key groove
	16	Keeper	80-67	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
	16	Keeper, Bulk	80-67	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
	4	Rotocap	80-67	<b>RC-126S</b>	
<b>BLOCK</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	80-67	<b>4070M</b> Std-10-20-30	
	4	Rod Pair	80-67	<b>2800P</b> Std-10	
	1	Cam Set	80-67	<b>1218M</b> Std Only	
<b>BLOCK</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	80-71	<b>224-41187</b>	Exc. Scout II; Repl. O.E. No. 151075R93
	1	Oil Pump	70-67	<b>224-41187</b>	Exc. Scout; Repl. O.E. No. 151075R93
	1	Pump Repair Kit	80-67	<b>224-51187</b>	
<b>3.2L 198 (3246cc) OHV Diesel L6 (12 Valve), 83mm Bore (Nissan Eng.) 1980-77 6</b>					
<b>L/D Truck Eng. Codes "SD33", "6-33"</b>					
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Pin Bushing Set	80-77	<b>6-67264Y</b>	
<b>BLOCK</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Thrust Washer Set	80-77	<b>67261BF</b> Std Only	Position 2
	1	Rod Set	80-77	<b>6-67260CP</b> Std-.75MM	
<b>3.5L 214 L-HEAD L6 (12 Valve), 3.3125" Bore 7</b>					
<b>L/D Truck</b>					
<b>BLOCK</b>	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	24	Keeper		<b>VK-66</b>	2 groove
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Pin Bushing		<b>9219X</b>	Full round bushing w/1.110" length
	6	Pin Bushing		<b>9219V</b>	Split type bushing w/1.120" length
<b>BLOCK</b>	<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Repair Sleeve		<b>SL-12M</b> Std Only	3/32" wall, must be cut to correct length
<b>BLOCK</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam Set		<b>1091M</b> Std Only	
<b>3.6L 220 OHV L6 (12 Valve), 3.5625" Bore 1968-50 8</b>					
<b>L/D Truck BD220, BG220, SD220, U220 Engs.</b>					
<b>BLOCK</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Lifter	68-50	<b>AT-2041</b> Std Only	Mech.; .997" dia. body
<b>BLOCK</b>	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	6	Exhaust	68-50	<b>V-1327X</b> Std Only	Rototype; Free valve; 1.5160" Head Dia., .3715" Stem Dia., 4.9910" O.A.L.
	6	Intake	68-50	<b>V-1542</b> Std Only	1.6560" Head Dia., .3720" Stem Dia., 5.0860" O.A.L.
<b>BLOCK</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Guide	68-50	<b>VG-499</b>	.3760" ID, 2.4100" O.A.L.
<b>BLOCK</b>	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	68-50	<b>VS-547</b>	Rototype; Free valve; 2.2650" Free Height

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# IHC Truck

**8 3.6L 220 OHV L6 (12 Valve), 3.5625" Bore 1968-50**  
 (cont.) L/D Truck BD220, BG220, SD220, U220 Engs.

VALVE TRAIN	QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
		12	Spring	68-50	VS-389
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	12	Valve Stem Seal	68-50	ST-2002	Installation requires valve guide machining; Polyacrylate
	6	Valve Stem Seal	68-50	MV-1233C	Int.; "A" & "B" Series; O-Ring; Rubber
	12	Valve Stem Seal Bulk	68-50	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
	6	Valve Stem Seal Bulk	68-50	MV-1233	Int.; "A" & "B" Series; O-Ring; Carton of 100; Rubber
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	6	Int.	68-50	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
	6	Int.	68-50	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	24	Keeper	68-50	VK-138	w/o Rototype Free valve; 1 groove; Square cut key groove
	24	Keeper	68-50	VK-138R	w/o Rototype Free valve; 1 groove; Square cut key groove; Hardened
	24	Keeper, Bulk	68-50	VK-138B	w/o Rototype Free valve; 1 groove; Square cut key groove; Carton of 1000
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Cast Piston	68-60	933P Std-30-40-60	Eng. Codes "BD220" & "BG220"; Cast; Standard altitude; 1-3/32", 1-1/8", 1-3/16" Ring Groove, 2.500 plus .525 step" CD, .8749" Pin Dia., Step Head w/2 valve reliefs
	6	Cast Piston - Individual	68-60	W933P Std-30-40-60	Eng. Codes "BD220" & "BG220"; Cast; Standard altitude; 1-3/32", 1-1/8", 1-3/16" Ring Groove, 2.500 plus .525 step" CD, .8749" Pin Dia., Step Head w/2 valve reliefs
	6	Pin Bushing	68-60	1579V	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set	68	677X Std Only	Eng. Code "SD220"; To Ser. No. 261932; 1-3/32, 2-1/8, 1-3/16
	1	Standard Set	68-51	E-135X Std-30	Eng. Code "BD220"; 1-3/32, 1-1/8, 1-3/16
	1	Standard Set	67-50	677X Std Only	Eng. Code "SD220"; 1-3/32, 2-1/8, 1-3/16
	1	Standard Set	50	E-135X Std-30	Eng. Code "BD220"; From Ser. No. 261933; 1-3/32, 1-1/8, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-60	4093M10 10	Full grooved; w/high volume oil pump	
1	Main Set	68-60	935M Std-10-20-30	Partial grooved; w/std. oil pump	
1	Rod Set	68-60	6-1575CPA Std-10-20-30		
6	Rod Pair	68-60	1575CPA Std-10-20-30-40		
1	Cam Set	68-60	1209M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	68-58	224-41185	Eng. Code "BD220"; Replaces O.E. No. 230421R91	
1	Oil Pump	57-50	224-41185	Eng. Code "SD220"; Replaces O.E. No. 230421R91	
1	Pump Repair Kit	68-58	224-51185	Eng. Code "BD220"	
1	Pump Repair Kit	57-50	224-51185	Eng. Code "SD220"	

**9 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore (AMC Eng.) 1972-69**  
 L/D Truck 6-232 Eng.

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	3 Piece Set	72-69	KT3-494S
	1	Timing Chain	72-69	222-494	48 Links
	1	Crank Sprocket	72-69	223-355	18 Teeth
	1	Cam Sprocket	72-69	223-388	36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	72-69	CS-652	Hyd.
	12	Lifter	72-69	HT-2011 Std Only	Hyd.; Carton of 117
	12	Lifter, Bulk	72-69	HT-2011B Std Only	Hyd.; Carton of 117
	1	Prelube	72-69	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
	1	Cam/Lifter Kit	72-69	KC-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
	1	Cam/Lifter/Timing Kit	72-69	KCT-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	12	Push Rod	72-69	RP-3163	w/Cast iron rocker arms; 9.6560" O.A.L.
	12	Push Rod	72-69	RP-3171	w/Stamped steel rocker arms; 9.5940" O.A.L.
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	6	Exh.	72-69	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
	6	Int.	72-69	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	24	Keeper	72-69	VK-138	1 groove; Square cut key groove

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# IHC Truck

## 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore (AMC Eng.) 1972-69 9 L/D Truck 6-232 Eng. (cont.)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
24	Keeper	72-69	VK-138R	1 groove; Square cut key groove; Hardened
24	Keeper	72-69	VK-174	4 groove
24	Keeper	72-69	VK-174R	4 groove; Hardened
24	Keeper, Bulk	72-69	VK-138B	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	72-69	409P Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	72-69	W409P Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	72-69	E-222K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	72-69	E-222X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	72-69	WE-222K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	72-69	WE-222X Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	72-69	4289M Std-10-20-30-40-60	
1	Rod Set	72-69	6-3310CPA Std-1-10-20-30-40-50-60	
6	Rod Pair	72-69	3310CPA Std-1-2-10-20-30-40-50-60	
1	Cam Set	72-69	1244M Std-10	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	72-69	224-41199	Replaces pump w/o cover having tab & slotted hole
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	72-69	260-1007	Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	71-69	381-8000	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
72-69	Premium valve stem seals incl.		Re-ring	205-610
			Re-ring w/Mains	205-110
				205-610M
				205-110M

## 3.8L 233 L-HEAD L6 (12 Valve), 3.3125" Bore 10 L/D Truck

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-66	2 groove
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Pin Bushing		9219X	Full round bushing w/1.110" length
6	Pin Bushing		9219V	Split type bushing w/1.120" length
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Repair Sleeve		SL-12M Std Only	3/32" wall, must be cut to correct length
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam Set		1091M Std Only	

## 3.9L 240 OHV L6 (12 Valve), 3.5625" Bore 1968-58 11 L/D Truck BD240, BG241, SD240 Eng.

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	68-58	AT-2041 Std Only	Mech.; .997" dia. body
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	68-58	V-1327X Std Only	Rototype; Free valve; 1.5160" Head Dia., .3715" Stem Dia., 4.9910" O.A.L.
6	Intake	68-58	V-1542 Std Only	1.6560" Head Dia., .3720" Stem Dia., 5.0860" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	68-58	VG-499	.3760" ID, 2.4100" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	68-58	VS-547	Rototype; Free valve; 2.2650" Free Height
12	Spring	68-58	VS-389	2.6870" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	68-58	ST-2002	Installation requires valve guide machining; Polyacrylate
6	Valve Stem Seal	68-58	MV-1233C	Int.; "A" & "B" Series; O-Ring; Rubber
12	Valve Stem Seal Bulk	68-58	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
6	Valve Stem Seal Bulk	68-58	MV-1233	Int.; "A" & "B" Series; O-Ring; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Int.	68-58	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth

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## 11 3.9L 240 OHV L6 (12 Valve), 3.5625" Bore 1968-58

(cont.) L/D Truck BD240, BG241, SD240 Eng.

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
6	Int.	68-58	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
12	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	68-58	VK-138	w/o Rototype Free valve; 1 groove; Square cut key groove
12	Keeper	68-58	VK-138R	w/o Rototype Free valve; 1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	68-58	VK-138B	w/o Rototype Free valve; 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing	68-61	1579V	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	68-58	E-135X Std-30	"A" & "B" Series; Check piston grooving before supplying ring set; 1-3/32, 1-1/8, 1-3/16
1	Standard Set	64-60	677X Std Only	"R" & "S" Series; Check piston grooving before supplying ring set; 1-3/32, 2-1/8, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-58	4093M10 10	Full grooved; w/high volume oil pump
1	Main Set	68-58	935M Std-10-20-30	Partial grooved; w/std. oil pump
1	Rod Set	68-58	6-1575CPA Std-10-20-30	
6	Rod Pair	68-58	1575CPA Std-10-20-30-40	
1	Cam Set	68-58	1209M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	68-58	224-41185	Eng. Code "BD240"; Replaces O.E. No. 230421R91
1	Pump Repair Kit	68-58	224-51185	Eng. Code "BD240"; Can also use 224-41185

## 12 4.0L 242 OHV L6 (12 Valve), 3.375" Bore L/D Truck

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing		9219X	Full round bushing w/1.110" length
6	Pin Bushing		9219V	Split type bushing w/1.120" length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Cam Set		1091M Std Only	

## 13 4.1L 250 OHV L6 (12 Valve), 3.4375" Bore L/D Truck

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal		MV-1233C	Int.; O-Ring; Rubber
6	Valve Stem Seal Bulk		MV-1233	Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.		245-1750-1 Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-63	2 groove; Round key groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing		1269V20	Bronze bushing w/o oil grooves & w/.020" extra bore stock
6	Pin Bushing		1269Y	Steel back bushing w/2 oil holes

## 14 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1974-72 L/D Truck 6-258 Eng.

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	74-72	KT3-494S	Incl. (1) 222-494, (1) 223-355, (1) 223-388
1	Timing Chain	74-72	222-494	48 Links
1	Crank Sprocket	74-72	223-355	18 Teeth
1	Cam Sprocket	74-72	223-388	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	74-72	CS-652	Hyd.
12	Lifter	74-72	HT-2011 Std Only	Hyd.; Carton of 117
12	Lifter, Bulk	74-72	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	74-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	74-72	KC-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	74-72	KCT-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	74-72	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	74-72	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth

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## 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1974-72 14 L/D Truck 6-258 Eng. (cont.)

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	74-72	VK-174	4 groove
12	Keeper	74-72	VK-174R	4 groove; Hardened
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	74-72	409P Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	74-72	W409P Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	74-72	E-222K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	74-72	E-222X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	74-72	WE-222K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	74-72	WE-222X Std-20-30-40-60	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74-72	4289M Std-10-20-30-40-60	
1	Rod Set	74-72	6-3310CPA Std-1-10-20-30-40-50-60	
6	Rod Pair	74-72	3310CPA Std-1-2-10-20-30-40-50-60	
1	Cam Set	74-72	1244M Std-10	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	74-72	224-41199	Exc. Scout; Replaces pump w/o cover having tab & slotted hole
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	74-72	260-1007	Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	74-72	381-8000	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.
<b>RE-RING KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>			
74-72	Premium valve stem seals incl.			
				<b>PREMIUM KIT NO.</b>
			Re-ring	205-610
			Re-ring w/Mains	205-110
				205-610M
				205-110M

## 4.3L 260 OHV L6 (12 Valve), 3.5" Bore 15 L/D Truck

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing		9219X	Full round bushing w/1.110" length
6	Pin Bushing		9219V	Split type bushing w/1.120" length
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam Set		1091M Std Only	

## 4.3L 264 OHV L6 (12 Valve), 3.6875" Bore 1968-59 16 L/D Truck BD264, BG264, BG265, SD264 Eng.

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	68-59	AT-2041 Std Only	Mech.; .997" dia. body
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	68-59	RP-3127	12.6860" O.A.L.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	68-59	V-1327X Std Only	Rototype; Free valve; 1.5160" Head Dia., .3715" Stem Dia., 4.9910" O.A.L.
6	Intake	68-59	V-1543 Std Only	1.7810" Head Dia., .3720" Stem Dia., 5.0720" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	68-59	VG-499	.3760" ID, 2.4100" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	68-59	VS-547	Rototype; Free valve; 2.2650" Free Height
12	Spring	68-59	VS-389	2.6870" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	68-59	ST-2002	Installation requires valve guide machining; Polyacrylate
12	Valve Stem Seal	68-59	MV-1902	Umbrella type; Rubber
6	Valve Stem Seal	68-59	MV-1233C	Int.; O-Ring; Rubber
12	Valve Stem Seal Bulk	68-59	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
6	Valve Stem Seal Bulk	68-59	MV-1233	Int.; O-Ring; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Int.	68-59	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	68-59	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth

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## 16 4.3L 264 OHV L6 (12 Valve), 3.6875" Bore 1968-59

(cont.) L/D Truck BD264, BG264, BG265, SD264 Engs.

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	68-59	VK-138	w/o Rototype Free valve; 1 groove; Square cut key groove
24	Keeper	68-59	VK-138R	w/o Rototype Free valve; 1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	68-59	VK-138B	w/o Rototype Free valve; 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing	68-65	1579V	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	68-59	5576KX Std-30	Eng. Codes "BD264" & "BG265"; "A" & "B" Series; 1-3/32, 1-1/8, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	68-59	SL-18M Std Only	Eng. Codes "BD264" & "BG265"; 3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-65	4093M10 10	Full grooved; w/high volume oil pump
1	Main Set	68-65	935M Std-10-20-30	Partial grooved; w/std. oil pump
1	Rod Set	68-65	6-1575CPA Std-10-20-30	
6	Rod Pair	68-65	1575CPA Std-10-20-30-40	
1	Cam Set	68-65	1209M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	68-59	224-41185	Eng. Code "BD264"; Replaces O.E. No. 230421R91
1	Pump Repair Kit	68-59	224-51185	

## 17 4.3L 266 OHV V8 (16 Valve), 3.625" Bore 1972-59

L/D Truck V266 Eng.

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	72-59	221-3336S	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	72-59	CS-415	
16	Lifter	72-59	HT-855 Std Only	Hyd.
16	Lifter, Bulk	72-59	HT-855B Std Only	Hyd.; Carton of 96
1	Prelube	72-59	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	72-65	RP-3131	Ball & socket type; Use w/fabricated arm w/welded ball; 8.9500" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	72-65	R-884	Int.; Boat type rocker arm; Stamped steel; Use w/Ball & ball end push rod
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	72-65	VG-581	.3755" ID, 2.9060" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	72-65	VS-693	Incl. damper; 2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	72-65	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	72-65	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	72-65	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	72-65	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	72-65	VK-138	1 groove; Square cut key groove
32	Keeper	72-65	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	72-65	VK-138B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap	72-65	RC-126S	Exh.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	72-65	5155X Std Only	2-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
6	Repair Sleeve	72-59	SL-17M Std Only	3/32" wall, must be cut to correct length & notched
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	70-61	4070M Std-10-20-30	
1	Rod Set	70-61	8-2410CP Std-10-20-30-40	
8	Rod Pair	70-61	2410CP Std-2-10-20-30-40	
1	Cam Set	70-61	1218M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	72-65	224-51187	

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# IHC Truck

## 4.3L 266 OHV V8 (16 Valve), 3.625" Bore 1972-59 17 L/D Truck V266 Eng. (cont.)

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	72-59	260-1075	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	72-59	381-8083	

## 4.4L 269 OHV L6 (12 Valve), 3.5625" Bore 18 L/D Truck

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal		ST-2002	BD269 Eng.s.; Installation requires valve guide machining; Polyacrylate
6	Valve Stem Seal		MV-1233C	Int.; O-Ring; Rubber
12	Valve Stem Seal Bulk		ST-2002BC	BD269 Eng.s.; Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
6	Valve Stem Seal Bulk		MV-1233	Int.; O-Ring; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.		245-1750-2N Std Only	Premium Material; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.		245-1750-2 Std Only	1.7550" OD, 1.5000" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-63	2 groove; Round key groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Pin Bushing		1269V20	Bronze bushing w/o oil grooves & w/.020" extra bore stock
6	Pin Bushing		1269Y	Steel back bushing w/2 oil holes
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set		677X Std Only	1-3/32, 2-1/8, 1-3/16

## 5.0L 304 OHV V8 (16 Valve), 3.875" Bore 1980-60 19 L/D Truck V304, V304E Eng.s.

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	80-60	221-3336S	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	80-60	CS-415	
16	Lifter	80-60	HT-855 Std Only	Hyd.
16	Lifter, Bulk	80-60	HT-855B Std Only	Hyd.; Carton of 96
1	Prelube	80-60	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	80-60	RP-3131	Ball & socket type; Use w/fabricated arm w/welded ball; 8.9500" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	80-60	R-884	Int.; Boat type rocker arm; Stamped steel; Use w/Ball & ball end push rod
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	80-60	V-2524X Std Only	Chrome plated stem; 1.6090" Head Dia., .3720" Stem Dia., 5.4730" O.A.L.
8	Intake	80-60	V-2525 Std Only	Chrome plated stem; 1.9690" Head Dia., .3725" Stem Dia., 5.2230" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	80-60	VG-581	.3755" ID, 2.9060" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	80-60	VS-693	Incl. damper; 2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	80-60	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal	80-60	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	80-60	MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk	80-60	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	80-60	VK-138	1 groove; Square cut key groove
32	Keeper	80-60	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	80-60	VK-138B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap	80-60	RC-126S	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	80-61	HLC997CP Std-40-60	w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.825" CD, 1.0627" Pin Dia., Flat Head; Low Compression; DurOshield® skirt coated piston

VALVE TRAIN

VALVE TRAIN

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# IHC Truck

## 19 5.0L 304 OHV V8 (16 Valve), 3.875" Bore 1980-60 (cont.) L/D Truck V304, V304E Engs.

<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b> (cont.)	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Cast Piston	80-61	<b>H997CP</b> Std-20-30-40-60	w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>		
	8	Cast Piston	60	<b>HLC997CP</b> Std-40-60	From Chassis No. H668260; w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.825" CD, 1.0627" Pin Dia., Flat Head; Low Compression; <b>DurOshield® skirt coated piston</b>		
	8	Cast Piston	60	<b>H997CP</b> Std-20-30-40-60	From Chassis No. H668260; w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>		
	8	Cast Piston - Individual	80-61	<b>WH997CP</b> Std-20-30-40-60	w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>		
	8	Cast Piston - Individual	60	<b>WH997CP</b> Std-20-30-40-60	From Chassis No. H668260; w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.876" CD, 1.0627" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	80-60	<b>E-270K</b> Std-20-30-40-60	2-3/32, 1-3/16		
	1	Standard Set	80-60	<b>E-270X</b> Std-20-30-40-60	2-3/32, 1-3/16		
	8	Premium Single Cylinder Set	80-60	<b>WE-270K</b> Std-20-30-40-60	2-3/32, 1-3/16		
8	Standard Single Cylinder Set	80-60	<b>WE-270X</b> Std-30-40-60	2-3/32, 1-3/16			
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
8	Repair Sleeve	80-60	<b>SL-20Y</b> Std Only	1/8" wall, must be cut to correct length			
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Main Set	80-60	<b>4070M</b> Std-10-20-30				
1	Rod Set	80-60	<b>8-2410CP</b> Std-10-20-30-40				
8	Rod Pair	80-60	<b>2410CP</b> Std-2-10-20-30-40				
1	Cam Set	80-60	<b>1218M</b> Std Only				
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Pump Repair Kit	75-60	<b>224-51187</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	80-60	<b>260-1075</b>				
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	80-60	<b>381-8083</b>				
	<b>RE-RING KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	80-60		Re-ring		205-670	205-170	
			Re-ring w/Mains		205-670M	205-170M	

## 20 5.0L 304 OHV LPG V8 (16 Valve), 3.875" Bore 1980-67 L/D Truck V304, V304E Engs. (LPG)

<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	80-67	<b>E-270K</b> Std-20-30-40-60	2-3/32, 1-3/16		
	1	Standard Set	80-67	<b>E-270X</b> Std-20-30-40-60	2-3/32, 1-3/16		
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Main Set	80-67	<b>4070M</b> Std-10-20-30			
	1	Rod Set	80-67	<b>8-2410CP</b> Std-10-20-30-40			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	80-67	<b>260-1075</b>	Int. manifold gskts. not incl.			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	74	<b>381-8083</b>				
1	Brass Block Plug Kit	72-71	<b>381-8083</b>				
	<b>RE-RING KIT</b>						
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
	80-67	Int. manifold gskts. not incl.	Re-ring		205-670	205-170	
			Re-ring w/Mains		205-670M	205-170M	

## 21 5.6L 345 OHV V8 (16 Valve), 3.875" Bore 1980-67 L/D Truck V345, V345E Engs.

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Gear Set	80-67	<b>221-3336S</b>	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	80-67	<b>CS-415</b>	
16	Lifter	80-67	<b>HT-855</b> Std Only	Hyd.
16	Lifter, Bulk	80-67	<b>HT-855B</b> Std Only	Hyd.; Carton of 96
1	Prelube	80-67	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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## 5.6L 345 OHV V8 (16 Valve), 3.875" Bore 1980-67 21 L/D Truck V345, V345E Engs. (cont.)

QTY	PART NO.	YEARS	DESCRIPTION
16	<b>PUSH ROD</b> Push Rod	80-67	<b>RP-3133</b>
16	Push Rod	80-67	<b>RP-3132</b>
16	Push Rod, Bulk	80-67	<b>BRP-3133</b>
8	<b>ROCKER PARTS</b> Arm	80-67	<b>R-884</b>
8	<b>VALVE</b> Exhaust	80-67	<b>V-2524X</b> Std Only
8	Intake	80-67	<b>V-2525</b> Std Only
16	<b>VALVE GUIDE</b> Guide	80-67	<b>VG-581</b>
16	<b>VALVE SPRING</b> Spring	80-67	<b>VS-693</b>
16	<b>VALVE SEAL</b> Valve Stem Seal	80-67	<b>ST-2004</b>
16	Valve Stem Seal	80-67	<b>MV-1233C</b>
16	Valve Stem Seal Bulk	80-67	<b>MV-1233</b>
16	Valve Stem Seal Bulk	80-67	<b>ST-2004BC</b>
32	<b>VALVE, MISC</b> Keeper	80-67	<b>VK-138</b>
32	Keeper	80-67	<b>VK-138R</b>
32	Keeper, Bulk	80-67	<b>VK-138B</b>
8	Rotocap	80-67	<b>RC-126S</b>
8	<b>PISTON</b> Cast Piston	80-68	<b>HLC997CP</b> Std-40-60
8	Cast Piston	80-68	<b>H997CP</b> Std-20-30-40-60
8	Cast Piston	67	<b>HLC997CP</b> Std-40-60
8	Cast Piston	67	<b>H997CP</b> Std-20-30-40-60
8	Cast Piston - Individual	80-68	<b>WH997CP</b> Std-20-30-40-60
8	Cast Piston - Individual	67	<b>WH997CP</b> Std-20-30-40-60
1	<b>RINGS</b> Premium Set	80-67	<b>E-270K</b> Std-20-30-40-60
1	Standard Set	80-67	<b>E-270X</b> Std-20-30-40-60
8	Premium Single Cylinder Set	80-67	<b>WE-270K</b> Std-20-30-40-60
8	Standard Single Cylinder Set	80-67	<b>WE-270X</b> Std-30-40-60
8	<b>SLEEVE</b> Repair Sleeve	80-67	<b>SL-20Y</b> Std Only
1	<b>ENGINE BEARINGS</b> Main Set	80-67	<b>4070M</b> Std-10-20-30
1	Rod Set	80-67	<b>8-2410CP</b> Std-10-20-30-40
8	Rod Pair	80-67	<b>2410CP</b> Std-2-10-20-30-40
1	Cam Set	80-67	<b>1218M</b> Std Only
1	<b>OIL PUMP</b> Pump Repair Kit	80	<b>224-51187</b>
1	Pump Repair Kit	79-67	<b>224-51187</b>
1	<b>GASKETS</b> Kit Gasket Set	80-67	<b>260-1075</b>

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# IHC Truck

## 21 5.6L 345 OHV V8 (16 Valve), 3.875" Bore 1980-67

(cont.) L/D Truck V345, V345E Engs.

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	80-67	381-8083			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
	80-67			Re-ring	205-670	205-170
				Re-ring w/Mains	205-670M	205-170M

## 22 5.6L 345 OHV LPG V8 (16 Valve), 3.875" Bore 1980-67

L/D Truck V345, V345E Engs. (LPG)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	Gear Set	80-67	221-3336S			
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Camshaft	80-67	CS-415			
16	Lifter	80-67	HT-855 Std Only	Hyd.		
16	Lifter, Bulk	80-67	HT-855B Std Only	Hyd.; Carton of 96		
1	Prelube	80-67	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Exhaust	80-67	V-2524X Std Only	Chrome plated stem; 1.6090" Head Dia., .3720" Stem Dia., 5.4730" O.A.L.		
8	Intake	80-67	V-2525 Std Only	Chrome plated stem; 1.9690" Head Dia., .3725" Stem Dia., 5.2230" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Guide	80-67	VG-581	.3755" ID, 2.9060" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Spring	80-67	VS-693	Incl. damper; 2.0500" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal	80-67	ST-2004	Positive type; Installation requires valve guide machining; Rubber/PTFE		
16	Valve Stem Seal	80-67	MV-1233C	O-Ring; Rubber		
16	Valve Stem Seal Bulk	80-67	MV-1233	O-Ring; Carton of 100; Rubber		
16	Valve Stem Seal Bulk	80-67	ST-2004BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
32	Keeper	80-67	VK-138	1 groove; Square cut key groove		
32	Keeper	80-67	VK-138R	1 groove; Square cut key groove; Hardened		
32	Keeper, Bulk	80-67	VK-138B	1 groove; Square cut key groove; Carton of 1000		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	80-67	E-270K Std-20-30-40-60	2-3/32, 1-3/16		
1	Standard Set	80-67	E-270X Std-20-30-40-60	2-3/32, 1-3/16		
8	Premium Single Cylinder Set	80-67	WE-270K Std-20-30-40-60	2-3/32, 1-3/16		
8	Standard Single Cylinder Set	80-67	WE-270X Std-30-40-60	2-3/32, 1-3/16		
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Repair Sleeve	80-67	SL-20Y Std Only	1/8" wall, must be cut to correct length		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	80-67	4070M Std-10-20-30			
1	Rod Set	80-67	8-2410CP Std-10-20-30-40			
8	Rod Pair	80-67	2410CP Std-2-10-20-30-40			
1	Cam Set	80-67	1218M Std Only			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	80-67	260-1075	Int. manifold gskts. not incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	80-67	381-8083			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
	80-67 Int. manifold gskts. not incl.			Re-ring	205-670	205-170
				Re-ring w/Mains	205-670M	205-170M

## 23 5.9L 361 OHV L6 (12 Valve), 4.125" Bore

L/D Truck

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust		V-4081 Std Only	1.5390" Head Dia., .4340" Stem Dia., 5.8380" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring		VS-336	Inner; 2.3430" Free Height
12	Spring		VS-337	Outer; 2.5620" Free Height

# IHC Truck

6.4L 392 OHV V8 (16 Valve), 4.125" Bore 1975-68 **24**  
L/D Truck V392, V392E Engs.

VALVE TRAIN		BLOCK			
<b>QTY</b> 1	<b>TIMING</b> Gear Set	<b>YEARS</b> 75-68	<b>PART NO.</b> 221-3336S	<b>DESCRIPTION</b>	
<b>QTY</b> 1 16 16 1	<b>CAMSHAFT/LIFTER</b> Camshaft Lifter Lifter, Bulk Prelube	<b>YEARS</b> 75-68 75-68 75-68 75-68	<b>PART NO.</b> CS-415 HT-855 Std Only HT-855B Std Only 55-400	<b>DESCRIPTION</b> Hyd. Hyd.; Carton of 96 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b> 16 16 16	<b>PUSH ROD</b> Push Rod Push Rod Push Rod, Bulk	<b>YEARS</b> 75-68 75-68 75-68	<b>PART NO.</b> RP-3133 RP-3132 BRP-3133	<b>DESCRIPTION</b> Ball & ball type ends; Use w/boat type rocker arms; 9.7790" O.A.L. Ball & socket type; Use w/fabricated arm w/welded ball; 9.7500" O.A.L. Ball & ball type ends; Use w/boat type rocker arms; Carton of 100; 9.7790" O.A.L.	
<b>QTY</b> 8	<b>ROCKER PARTS</b> Arm	<b>YEARS</b> 75-68	<b>PART NO.</b> R-884	<b>DESCRIPTION</b> Int.; Boat type rocker arm; Stamped steel; Use w/Ball & ball end push rod	
<b>QTY</b> 8	<b>VALVE</b> Exhaust	<b>YEARS</b> 75-68	<b>PART NO.</b> V-1834X Std Only	<b>DESCRIPTION</b> 1.7340" Head Dia., .4145" Stem Dia., 5.4800" O.A.L.	
<b>QTY</b> 8 8	<b>VALVE GUIDE</b> Guide Guide	<b>YEARS</b> 75-68 75-68	<b>PART NO.</b> VG-646 VG-581	<b>DESCRIPTION</b> Exh.; .4180" ID, 2.9060" O.A.L. Int.; .3755" ID, 2.9060" O.A.L.	
<b>QTY</b> 16	<b>VALVE SPRING</b> Spring	<b>YEARS</b> 75-68	<b>PART NO.</b> VS-693	<b>DESCRIPTION</b> Incl. damper; 2.0500" Free Height	
<b>QTY</b> 16 16	<b>VALVE SEAL</b> Valve Stem Seal Valve Stem Seal Bulk	<b>YEARS</b> 75-68 75-68	<b>PART NO.</b> MV-1233C MV-1233	<b>DESCRIPTION</b> O-Ring; Rubber O-Ring; Carton of 100; Rubber	
<b>QTY</b> 32 32 32 8	<b>VALVE, MISC</b> Keeper Keeper Keeper, Bulk Rotocap	<b>YEARS</b> 75-68 75-68 75-68 75-68	<b>PART NO.</b> VK-138 VK-138R VK-138B RC-126S	<b>DESCRIPTION</b> 1 groove; Square cut key groove 1 groove; Square cut key groove; Hardened 1 groove; Square cut key groove; Carton of 1000 Exh.	
<b>QTY</b> 8 8	<b>PISTON</b> Cast Piston Cast Piston - Individual	<b>YEARS</b> 75-68 75-68	<b>PART NO.</b> H996CP Std-20-30-40-60 WH996CP Std-20-30-40-60	<b>DESCRIPTION</b> Eng. Code "V392E"; w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.886" CD, 1.0624" Pin Dia., Recessed Head; <b>DurOshield® skirt coated piston</b> Eng. Code "V392E"; w/Exh. Emis.; Hypereutectic; 2-3/32", 1-3/16" Ring Groove, 1.886" CD, 1.0624" Pin Dia., Recessed Head; <b>DurOshield® skirt coated piston</b>	
<b>QTY</b> 1 1 1 8 8	<b>RINGS</b> Premium Set Premium Set Standard Set Premium Single Cylinder Set Premium Single Cylinder Set	<b>YEARS</b> 75-68 75-68 75-68 75-68 75-68	<b>PART NO.</b> E-404K Std-30-60 E-273K Std-20-30-40-60 E-422X30 30-40 WE-404K Std-30 WE-273K Std-20-30-40-60	<b>DESCRIPTION</b> H/D; Highway; 2-3/32, 1-3/16 L/D; 2-3/32, 1-3/16 2-3/32, 1-3/16 H/D use; Highway use; 2-3/32, 1-3/16 L/D; 2-3/32, 1-3/16	
<b>QTY</b> 8 8	<b>SLEEVE</b> Repair Sleeve Repair Sleeve	<b>YEARS</b> 75-68 75-68	<b>PART NO.</b> SL-23Y Std Only SL-23M Std Only	<b>DESCRIPTION</b> 1/8" wall, must be cut to correct length 3/32" wall, must be cut to correct length	
<b>QTY</b> 1 1 8 1	<b>ENGINE BEARINGS</b> Main Set Rod Set Rod Pair Cam Set	<b>YEARS</b> 75-68 75-68 75-68 75-68	<b>PART NO.</b> 4070M Std-10-20-30 8-2410CP Std-10-20-30-40 2410CP Std-2-10-20-30-40 1218M Std Only	<b>DESCRIPTION</b>	
<b>QTY</b> 1 1	<b>OIL PUMP</b> Pump Repair Kit Pump Repair Kit	<b>YEARS</b> 75 74-68	<b>PART NO.</b> 224-51187 224-51187	<b>DESCRIPTION</b> To Eng. Ser. No. 1343145	
<b>QTY</b> 1 1 1 1	<b>GASKETS</b> Kit Gasket Set Kit Gasket Set Kit Gasket Set Kit Gasket Set	<b>YEARS</b> 75-69 75-69 68 68	<b>PART NO.</b> 260-1076 260-1050 260-1050 260-1076	<b>DESCRIPTION</b> w/o Improved cooling w/Improved cooling From Ser. No. 1013197; w/Improved cooling To Ser. No. 1013196; w/o Improved cooling	
<b>QTY</b> 1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	<b>YEARS</b> 75-69	<b>PART NO.</b> 381-8083	<b>DESCRIPTION</b>	
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b> 75	<b>DESCRIPTION</b> To Ser. No. 1013196; w/o Improved cooling; H/D; Highway use; For pistons w/2-3/32, 1-3/16 ring groove		Re-ring	205-671	----

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## 24 6.4L 392 OHV V8 (16 Valve), 4.125" Bore 1975-68 (cont.) L/D Truck V392, V392E Engs.

K I T S	RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	75	To Ser. No. 1013196; w/o Improved cooling; L/D	Re-ring	205-675	----	
	75-69	w/Improved cooling; H/D; Highway use; For pistons w/2-3/32, 1-3/16 ring groove	Re-ring	205-673	----	
	75-69	w/Improved cooling; L/D	Re-ring	205-676	----	
	74-68	w/o Improved cooling; H/D; Highway use; For pistons w/2-3/32, 1-3/16 ring groove	Re-ring	205-671	----	
	74-68	w/o Improved cooling; L/D	Re-ring	205-675	----	
	68	From Ser. No. 1013197; w/Improved cooling; H/D; Highway use; For pistons w/2-3/32, 1-3/16 ring groove	Re-ring	205-673	----	
	68	From Ser. No. 1013197; w/Improved cooling; L/D	Re-ring	205-676	----	

## 25 6.6L 401 OHV L6 (12 Valve), 4.125" Bore 1969-49 L/D Truck

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	69-49	V-4081 Std Only	1.5390" Head Dia., .4340" Stem Dia., 5.8380" O.A.L.
6	Spring	69-49	VS-336	Inner; 2.3430" Free Height
6	Spring	69-49	VS-337	Outer; 2.5620" Free Height
6	Valve Stem Seal	69-49	MV-1233C	Int.; O-Ring; Rubber
6	Valve Stem Seal Bulk	69-49	MV-1233	Int.; O-Ring; Carton of 100; Rubber
12	Spring Insert	69-49	259-303C	.015"; ID .703"; Carton of 100
12	Spring Insert	69-49	259-303B	.030"; ID .703"; Carton of 100
12	Spring Insert	69-49	259-303A	.060"; ID .703"; Carton of 100
12	Spring Insert	69-49	259-303ARS	.060"; ID .703"; Carton of 500
6	Repair Sleeve	69-49	SL-23Y Std Only	1/8" wall, must be cut to correct length
6	Repair Sleeve	69-49	SL-23M Std Only	3/32" wall, must be cut to correct length

## 26 6.6L 401 OHV V8, 4.165" Bore (AMC Eng.) 1974 L/D Truck V400 Eng.

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	74	KT3-349S	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	74	222-349	5/8" wide; 62 Links
1	Crank Sprocket	74	223-281	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	74	223-412	Use w/5/8" wide chain; 46 Teeth
1	Camshaft	74	CS-646	Hyd.
16	Lifter	74	HT-2011 Std Only	Hyd.; Carton of 117
16	Lifter, Bulk	74	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	74	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Cam/Lifter Kit	74	KC-646	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	74	KCT-646	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B
16	Push Rod	74	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	74	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Arm Assy.	74	R-853	Incl. arm, ball & nut
16	Arm Assy.	74	R-875	Incl. 2-arms, 2-pivots & 1-bridge
16	Arm Assy., Bulk	74	R-875B	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32
16	Arm	74	R-853A	
16	Arm	74	R-875A	
16	Pivot	74	MR-1909	Incl. 2-pivots & 1-bridge
8	Exhaust	74	V-1980 Std Only	1 groove; w/Rotocaps; 1.6800" Head Dia., .3710" Stem Dia., 4.9290" O.A.L.
8	Intake	74	V-1979 Std Only	4 groove; 2.0260" Head Dia., .3719" Stem Dia., 4.8980" O.A.L.

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## 6.6L 401 OHV V8, 4.165" Bore (AMC Eng.) 1974 26 L/D Truck V400 Eng. (cont.)

VALVE TRAIN		QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
		8	Intake, Bulk	74	V-1979B Std Only	4 groove; Carton of 25; 2.0256" Head Dia., .3719" Stem Dia., 4.8976" O.A.L.
		16	Guide	74	VG-5062	.3735" ID, 2.3800" O.A.L.
		16	Valve Stem Seal	74	ST-2002	Installation requires valve guide machining; Polyacrylate
		16	Valve Stem Seal Bulk	74	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
		8	Exh.	74	245-1750-3 Std Only	1.7555" OD, 1.4375" ID, .2160" Depth
		8	Int.	74	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
		32	Keeper	74	VK-115	Exh.; 1 groove; Square cut key groove
		32	Keeper	74	VK-115R	Exh.; 1 groove; Square cut key groove; Hardened
		32	Keeper	74	VK-174	Int.; 4 groove
		32	Keeper	74	VK-174R	Int.; 4 groove; Hardened
		32	Keeper, Bulk	74	VK-115B	Exh.; 1 groove; Square cut key groove; Carton of 1000
		8	Cast Piston	74	415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
		8	Cast Piston - Individual	74	W415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
		1	Premium Set	74	E-302K30 30-40-60	2-5/64, 1-3/16
		1	Standard Set	74	E-302X Std-30-40	2-5/64, 1-3/16
		8	Premium Single Cylinder Set	74	WE-302K30 30	2-5/64, 1-3/16
		8	Standard Single Cylinder Set	74	WE-302X30 30	2-5/64, 1-3/16
		1	Main Set	74	4950M10 10-20-30	
		1	Cam Set	74	1401M Std Only	
		1	Pump Repair Kit	74	224-51285	
		1	Screen Assy.	74	224-14161	
		1	Kit Gasket Set	74	260-1151	Int. manifold gskt. not incl.; Premium valve stem seals incl.
		1	Valley Pan Gasket Set	74	260-4008	

## 7.3L 444 OHV Diesel V8 (IDI), 4.1102" Bore 1989 27 L/D Truck 7.3L Diesel Eng.

VALVE TRAIN		QTY	TIMING	YEARS	PART NO.	DESCRIPTION
		1	Gear Set	89	221-3342S	Incl. (1) 221-3342S
		1	Cam Gear	89	221-3342	106 Teeth
		1	Camshaft	89	CS-771	
		16	Lifter	89	HT-2104 Std Only	Hyd. rlr.
		16	Lifter, Bulk	89	HT-2104B Std Only	Hyd. rlr.; Carton of 113
		1	Prelube	89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
		1	Cam/Lifter Kit	89	KC-771	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 55-403B
		1	Cam/Lifter/Timing Kit	89	KCT-771	Hyd. rlr.; Incl. (1) CS-771, (16) HT-2104, (1) 221-3342S, (1) 55-403B
		8	Exhaust	89	V-2302 Std Only	Chrome plated stem; 1.5950" Head Dia., .3719" Stem Dia., 5.6700" O.A.L.
		8	Intake	89	V-2303 Std Only	Chrome plated stem; 1.8770" Head Dia., .3719" Stem Dia., 5.6880" O.A.L.
		16	Guide	89	VG-804	Repair Guide; .3750" ID, 2.6000" O.A.L.
		16	Spring	89	VS-693	Incl. damper; 2.0500" Free Height
		8	Exh.	89	245-1669-1 Std Only	1.6690" OD, 1.3700" ID, .2710" Depth
		8	Int.	89	245-1937-1 Std Only	Cannot be used in early year A & B castings because of thin castings; 1.9425" OD, 1.6875" ID, .2480" Depth

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**27 7.3L 444 OHV Diesel V8 (IDI), 4.1102" Bore 1989**  
 (cont.) L/D Truck 7.3L Diesel Eng.

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	89	VK-138	1 groove; Square cut key groove	
32	Keeper	89	VK-138R	1 groove; Square cut key groove; Hardened	
32	Keeper, Bulk	89	VK-138B	1 groove; Square cut key groove; Carton of 1000	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston	89	2745PN40 40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.949" CD, 1.1100" Pin Dia., Ricardo Cup; Repl. O.E. Nos. 1813154C1, E9TZ-6102A	
8	Cast Piston	89	2771PN Std-20-40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Cast; 1-.118", 1-.078", 1-.136" Ring Groove, 1.939" CD, 1.1100" Pin Dia., Ricardo Cup; Same as FP-1816674 Exc. De-Stroke .010"	
8	Cast Piston	89	H651CP Std-20-30-40	Replaces early style w/.109" oil ring in sets only; Use w/E-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; <b>DurOshield® skirt coated piston</b>	
8	Cast Piston - Individual	89	WH651CP Std-20-30-40	From Ser. No. 598754; Replaces early style w/.109" oil ring in sets only to Ser. No. 598753; Use w/E-509K ring set; Hypereutectic; 1-.118", 1-.078", 1-.136" Ring Groove, 1.940" CD, 1.1100" Pin Dia., Ricardo Cup Head w/.007" taper; <b>DurOshield® skirt coated piston</b>	
8	Pin Bushing	89	3814Y20		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	89	E-509K Std-20-30-40	1-.118, 1-.078, 1-.136; 2nd ring gap is .060-.075" like O.E. ring	
8	Premium Single Cylinder Set	89	WE-509K Std-20-30-40	1-.118, 1-.078, 1-.136; 2nd ring gap is .060-.075" like O.E. ring	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	89	5110M Std-1-2-10-20-30		
1	Main Set	89	7219M10 10-20-30	w/.010" O/S length flange brg.	
1	Rod Set	89	8-3810CP Std-10-20-30-40		
8	Rod Pair	89	3810CP Std-1-10-20-30-40		
1	Cam Set	89	1467M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	89	224-41999		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	89	260-1673	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	89	260-4029		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89	381-8056	Incl. 7 centerless ground OD, stainless steel block plugs	
RE-RING KIT				PREMIUM	ECONOMY
YEARS	DESCRIPTION			KIT NO.	KIT NO.
89	Int. manifold gskt. not incl.; Premium valve stem seals incl.; 2nd ring gap is .060-.075" like O.E. ring	Re-ring		205-6091	-----
		Re-ring w/Mains		205-6091M	-----
OVERHAUL KIT				PREMIUM	ECONOMY
YEARS	DESCRIPTION			KIT NO.	KIT NO.
89	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs; 2nd ring gap is .060-.075" like O.E. ring	Master		MKP-6091A	-----
		Master w/o Pistons		MK-6091A	-----
		Master w/o Rods & Mains		505-6091A	-----
89	Replaces early style w/.109" oil ring in sets only; Premium valve stem seals incl.	Block		BK-6178	-----
89	Replaces early style w/.109" oil ring in sets only; Premium valve stem seals incl.; Incl. 7 centerless ground OD, stainless steel block plugs	Block w/Pump & Freeze Plugs		BKP-6178	-----

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.5L 1471cc SOHC L4 77mm Bore (8 Valve).....	1989-85	1	1.8L 1817cc SOHC L4 84mm Bore (8 Valve).....	1985-81	6
1.5L 1471cc SOHC Turbo L4 77mm Bore (8 Valve).....	1989-87	2	1.8L 1817cc SOHC Diesel L4 84mm Bore (8 Valve).....	1985-81	7
1.6L 1588cc DOHC L4 80mm Bore (16 Valve).....	1990-89	3	1.9L 1949cc SOHC L4 87mm Bore (8 Valve).....	1987-83	8
1.6L 1588cc SOHC L4 80mm Bore (12 Valve).....	1990-89	4	2.0L 1994cc SOHC Turbo L4 88mm Bore (8 Valve).....	1989-85	9
1.6L 1588cc DOHC Turbo L4 80mm Bore (16 Valve).....	1990	5	2.3L 2254cc SOHC L4 89.3mm Bore (8 Valve).....	1989-88	10

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G180Z.....	1.8L 1817cc SOHC L4 84mm Bore (8 Valve).....	6	4XE1V.....	1.6L 1588cc SOHC L4 80mm Bore (12 Valve).....	4
G200Z.....	1.9L 1949cc SOHC L4 87mm Bore (8 Valve).....	8	4XE1W.....	1.6L 1588cc DOHC L4 80mm Bore (16 Valve).....	3
4FB1.....	1.8L 1817cc SOHC Diesel L4 84mm Bore (8 Valve).....	7	4XE1W-T.....	1.6L 1588cc DOHC Turbo L4 80mm Bore (16 Valve).....	5
4XC1.....	1.5L 1471cc SOHC L4 77mm Bore (8 Valve).....	1	4ZC1-T.....	2.0L 1994cc SOHC Turbo L4 88mm Bore (8 Valve).....	9
4XC1-T.....	1.5L 1471cc SOHC Turbo L4 77mm Bore (8 Valve).....	2	4ZD1.....	2.3L 2254cc SOHC L4 89.3mm Bore (8 Valve).....	10

1.5L 1471cc SOHC L4 (8 Valve), 77mm Bore 1989-85 <b>1</b>					
Eng. Code "4XC1" 1985-89					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	89-88	<b>222-B162</b>	From 4/1/87	
1	Timing Belt	87	<b>222-B162</b>		
1	Timing Belt Tensioner	89-85	<b>222-134BT</b>		
1	Crank Sprocket	89-85	<b>223-641</b>		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	89-85	<b>V-2336</b> Std Only	Chrome plated stem; 1.2200" Head Dia., .2740" Stem Dia., 4.1400" O.A.L.	
4	Intake	89-85	<b>V-2337</b> Std Only	Chrome plated stem; 1.4150" Head Dia., .2742" Stem Dia., 4.1400" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	89-85	<b>VG-909</b>	Exh.; .2762" ID, 1.9700" O.A.L.	
4	Guide	89-85	<b>VG-916</b>	Int.; .2762" ID, 1.6950" O.A.L.	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	89-85	<b>VK-247</b>		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	4	Premium Single Cylinder Set	89-85	<b>WE-546KC</b> Std Only	1-1.50MM, 1-2.80MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	89-85	<b>6686MA</b> Std-.25-.50MM	A-Series aluminum bearings
1	Thrust Washer Set	89-85	<b>1064AF</b> Std Only	Position 3	
1	Rod Set	89-85	<b>4-1145CP</b> Std-.25-.50MM		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-85	<b>381-8095</b>		

1.5L 1471cc SOHC Turbo L4 (8 Valve), 77mm Bore 1989-87 <b>2</b>					
Eng. Code "4XC1-T" 1987-89					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	89-88	<b>222-B162</b>	From 4/1/87	
1	Timing Belt	87	<b>222-B162</b>		
1	Timing Belt Tensioner	89-87	<b>222-134BT</b>		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Intake	89-87	<b>V-2337</b> Std Only	Chrome plated stem; 1.4150" Head Dia., .2742" Stem Dia., 4.1400" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	89-87	<b>VG-909</b>	Exh.; .2762" ID, 1.9700" O.A.L.	
4	Guide	89-87	<b>VG-916</b>	Int.; .2762" ID, 1.6950" O.A.L.	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	89-87	<b>VK-247</b>		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	89-87	<b>E-545KC</b> Std Only	2-1.20MM, 1-2.80MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	89-87	<b>6686MA</b> Std-.25-.50MM	A-Series aluminum bearings	

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# Isuzu Car

## 2 1.5L 1471cc SOHC Turbo L4 (8 Valve), 77mm Bore 1989-87

(cont.) Eng. Code "4XC1-T" 1987-89

QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	89-87	1064AF Std Only	
1	Rod Set	89-87	4-1145CP Std-.25-.50MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-87	381-8095	

## 3 1.6L 1588cc DOHC L4 (16 Valve), 80mm Bore 1990-89

Eng. Code "4XE1W" 1989-92

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-89	V-4379X Std Only	Chrome plated stem; 1.1020" Head Dia., .2345" Stem Dia., 3.9770" O.A.L.
8	Intake	90-89	V-4354 Std Only	Chrome plated stem; 1.2200" Head Dia., .2350" Stem Dia., 3.9780" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-89	VG-914	Exh.; .2345" ID, 1.7750" O.A.L.
4	Guide	90-89	VG-915	Int.; .2340" ID, 1.6510" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-89	ST-2079	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-89	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
8	Int.	90-89	245-1312-65 Std Only	1.3195" OD, 1.0600" ID, .2300" Depth
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	E-547KC1.00MM 1.00MM	2-1.20MM, 1-3.00MM
4	Premium Single Cylinder Set	90-89	WE-547KC Std Only	2-1.20MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	7284M Std-.25MM	
1	Thrust Washer Set	90-89	4456F Std Only	Position 3
1	Rod Set	90-89	4-4455RA Std-.25MM	

## 4 1.6L 1588cc SOHC L4 (12 Valve), 80mm Bore 1990-89

Eng. Code "4XE1V" 1990-93

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90	222-B177	Stylus	
1	Timing Belt Tensioner	90	222-347BT		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-89	E-547KC1.00MM 1.00MM	2-1.20MM, 1-3.00MM	
4	Premium Single Cylinder Set	90-89	WE-547KC Std Only	2-1.20MM, 1-3.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-89	7284M Std-.25MM		
1	Thrust Washer Set	90-89	4456F Std Only	Position 3	
1	Rod Set	90-89	4-4455RA Std-.25MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-89	260-1638	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
90-89			PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	205-6350	----

## 5 1.6L 1588cc DOHC Turbo L4 (16 Valve), 80mm Bore 1990

Eng. Code "4XE1W-T" 1990-92

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90	V-4379X Std Only	Chrome plated stem; 1.1020" Head Dia., .2345" Stem Dia., 3.9770" O.A.L.
8	Intake	90	V-4354 Std Only	Chrome plated stem; 1.2200" Head Dia., .2350" Stem Dia., 3.9780" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90	VG-914	Exh.; .2345" ID, 1.7750" O.A.L.
8	Guide	90	VG-915	Int.; .2340" ID, 1.6510" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2079	Exh. & Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
8	Int.	90	245-1312-65 Std Only	1.3195" OD, 1.0600" ID, .2300" Depth

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1.6L 1588cc DOHC Turbo L4 (16 Valve), 80mm Bore 1990 <b>5</b>						
Eng. Code "4XE1W-T" 1990-92 (cont.)						
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90	<b>7284M</b> Std-.25MM		
	1	Thrust Washer Set	90	<b>4456F</b> Std Only	Position 3	
	1	Rod Set	90	<b>4-4455RA</b> Std-.25MM		
1.8L 1817cc SOHC L4 (8 Valve), 84mm Bore 1985-81 <b>6</b>						
Eng. Code "G180Z" 1981-85						
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	85-81	<b>CS-720</b>		
	1	Prelube	85-81	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Arm	85-81	<b>R-901</b>		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Exhaust	85-81	<b>V-2251</b> Std Only	Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.	
	4	Intake	85-81	<b>V-2252</b> Std Only	Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Guide	85-81	<b>VG-697</b>	Exh.; .3148" ID, 2.1600" O.A.L.	
4	Guide	85-81	<b>VG-698</b>	Int.; .3145" ID, 1.8000" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	85-83	<b>VS-1528</b>	Outer; 1.8960" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	85-81	<b>ST-2034</b>	Positive type; Viton®		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	85-81	<b>VK-215</b>			
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Pin Bushing Set	85-81	<b>4-3574Y</b>		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	85-82	<b>E-519K.50MM</b> .50MM	2-1.50MM, 1-4.00MM	
	1	Premium Set	81	<b>E-357KC</b> Std-1.00MM	2-2.00MM, 1-4.00MM	
	1	Standard Set	85-82	<b>E-519X</b> Std Only	2-1.50MM, 1-4.00MM	
	1	Standard Set	81	<b>E-357X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
	4	Premium Single Cylinder Set	85-82	<b>WE-519KC</b> Std Only	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	81	<b>WE-357KC</b> Std-.50-.75MM	2-2.00MM, 1-4.00MM	
	4	Standard Single Cylinder Set	81	<b>WE-357X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	85-81	<b>5028M</b> Std-.25-.50-.75MM			
1	Thrust Washer Set	85-81	<b>3571BF</b> Std Only	Position 3		
1	Rod Set	85-81	<b>4-3570CPB</b> Std-.25-.50-.75-1.00MM			
1	Cam Set	85-81	<b>1858M</b> Std Only			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	85-81	<b>260-1090</b>	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		
<b>KITS</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>KITS</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	85-82	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	-----	<b>205-1360</b> <b>205-1360M</b>	
81	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-829</b>	<b>205-329</b>		
1.8L 1817cc SOHC Diesel L4 (8 Valve), 84mm Bore 1985-81 <b>7</b>						
Eng. Code "4FB1" 1981-85						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Timing Belt	85-81	<b>222-76</b>			
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	85-81	<b>VG-697</b>	Exh.; .3148" ID, 2.1600" O.A.L.		
4	Guide	85-81	<b>VG-698</b>	Int.; .3145" ID, 1.8000" O.A.L.		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	84-81	<b>ST-2034</b>	Positive type; Viton®		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Pin Bushing Set	85-81	<b>4-67314Y</b>			
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Thrust Washer Set	85-81	<b>3571BF</b> Std Only	Position 3		

# Isuzu Car

## 8 1.9L 1949cc SOHC L4 (8 Valve), 87mm Bore 1987-83 Eng. Code "G200Z" 1983-87

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	87-83	CS-720	
1	Prelube	87-83	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	87-83	R-1016	Impulse
1	Rocker Shaft	87-83	RS-706	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	87-83	V-2180 Std Only	Eng. Code "G200Z"; w/MFI; Chrome plated stem; 1.3360" Head Dia., .3125" Stem Dia., 4.3620" O.A.L.
4	Exhaust	87-83	V-2251 Std Only	Eng. Code "G200Z"; w/2 Bbl. Carb.; Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.
4	Intake	87-83	V-2252 Std Only	Eng. Code "G200Z"; w/2 Bbl. Carb.; Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	87-83	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.
4	Guide	87-83	VG-698	Int.; .3145" ID, 1.8000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	87-83	VS-1528	Outer; 1.8960" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	87-83	ST-2034	Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	87-83	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	87-83	VK-215	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	87-83	592P.75MM .75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.455" CD, .8662" Pin Dia., Flat Head
1	Pin Bushing Set	87-83	4-3574Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-83	E-475KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	87-83	E-475X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	87-83	WE-475KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-86	6631M Std-.25-.50-.75MM	
1	Main Set	85-83	5028M Std-.25-.50-.75MM	
1	Thrust Washer Set	87-83	3571BF Std Only	
1	Rod Set	87-83	4-3570CPB Std-.25-.50-.75-1.00MM	
1	Cam Set	87-83	1858M Std Only	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87-83	260-1090	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.
KITS	RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION		
	87-86	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	205-6320	205-1320
	87-86	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	205-6320AM	205-1320AM
85-83	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	205-6320	205-1320	
			205-6320M	205-1320M

## 9 2.0L 1994cc SOHC Turbo L4 (8 Valve), 88mm Bore 1989-85 Eng. Code "4ZC1-T" 1985-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt Tensioner	89-85	222-263BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-85	CS-620	
1	Prelube	89-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Intake	89-85	V-2616 Std Only	Chrome plated stem; 1.6630" Head Dia., .3130" Stem Dia., 4.3570" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-85	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.
4	Guide	89-85	VG-698	Int.; .3145" ID, 1.8000" O.A.L.

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# Isuzu Car

## 2.0L 1994cc SOHC Turbo L4 (8 Valve), 88mm Bore 1989-85 **9** Eng. Code "4ZC1-T" 1985-89 (cont.)

	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	89-85	VS-1528	1.8960" Free Height
	4	Exh.	89-85	245-1562-66 Std Only	1.5695" OD, 1.2650" ID, .2800" Depth
	4	Int.	89-85	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth
<b>B L O C K</b>	1	Pin Bushing Set	88-85	4-3574Y	
	1	Premium Set	89-85	E-731KC Std Only	2-1.50MM, 1-4.00MM
	1	Main Set	89-85	6631M Std-.25-.50-.75MM	
	1	Thrust Washer Set	89-85	3571BF Std Only	Position 3
	1	Rod Set	89-85	4-3570CPB Std-.25-.50-.75-1.00MM	
	1	Oil Pump	89-85	224-43413	

## 2.3L 2254cc SOHC L4 (8 Valve), 89.3mm Bore 1989-88 **10** Eng. Code "4ZD1" 1988-89

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	89-88	222-122	
	1	Timing Belt Tensioner	89-88	222-263BT	
	1	Timing Belt & Tensioner Set	89-88	BTS-122	
<b>V A L V E  T R A I N</b>	1	Camshaft	89-88	CS-620	
	1	Prelube	89-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	8	Arm	89-88	R-1016	Exh. & Int.
	1	Rocker Shaft	89-88	RS-707	Exh.
	1	Rocker Shaft	89-88	RS-706	Int.
	4	Exhaust	89-88	V-2633 Std Only	Chrome plated stem; 1.4528" Head Dia., .3126" Stem Dia., 4.2559" O.A.L.
	4	Intake	89-88	V-2632 Std Only	1.7360" Head Dia., .3130" Stem Dia., 4.2800" O.A.L.
	4	Guide	89-88	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.
	4	Guide	89-88	VG-698	Int.; .3145" ID, 1.8000" O.A.L.
	8	Spring	89-88	VS-1528	1.8960" Free Height
8	Valve Stem Seal	89-88	ST-2034	Positive type; Viton®	
4	Exh.	89-88	245-1625-54 Std Only	1.6320" OD, 1.3290" ID, .2800" Depth	
16	Keeper	89-88	VK-215		
<b>B L O C K</b>	1	Pin Bushing Set	89-88	4-3574Y	
	1	Premium Set	89-88	E-616KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	Standard Set	89-88	E-616X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	89-88	WE-616KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
	1	Main Set	89-88	6631M Std-.25-.50-.75MM	
	1	Thrust Washer Set	89-88	3571BF Std Only	Position 3
	1	Rod Set	89-88	4-3570CPB Std-.25-.50-.75-1.00MM	
	1	Cam Set	89-88	1858M Std Only	
	1	Oil Pump	89-88	224-43413	
	1	Kit Gasket Set	89-88	260-1767	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Brass Block Plug Kit	89-88	381-8101		

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## 10 2.3L 2254cc SOHC L4 (8 Valve), 89.3mm Bore 1989-88

(cont.) Eng. Code "4ZD1" 1988-89

RE-RING KIT		PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		
89-88	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	205-6878 205-6878M	205-1878 205-1878M

## Isuzu SUV's - See Isuzu Truck Isuzu Truck (Includes SUV's)

### Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.8L 1817cc SOHC L4 84mm Bore (8 Valve) L/D Truck	1982-81	1	2.6L 2559cc SOHC L4 92.6mm Bore (8 Valve) L/D Truck	1990-88	6
1.9L 1949cc SOHC L4 87mm Bore (8 Valve) L/D Truck	1987-83	2	2.8L 2835cc OHV V6 89mm Bore (Chevrolet) (GMC Eng.) L/D Truck	1990-89	7
2.2L 2238cc OHV Diesel L4 88mm Bore (8 Valve) L/D Truck	1987-81	3	3.9L 3856cc OHV Diesel L4 102mm Bore (8 Valve) L/D Truck	1988-85	8
2.2L 2238cc OHV Turbo-Diesel L4 88mm Bore (8 Valve) L/D Truck	1987-86	4	3.9L 3856cc OHV Turbo-Diesel L4 102mm Bore (8 Valve) L/D Truck	1990-85	9
2.3L 2254cc SOHC L4 89.3mm Bore (8 Valve) L/D Truck	1990-86	5			

### Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
C223	2.2L 2238cc OHV Diesel L4 88mm Bore (8 Valve) L/D Truck	3	4BD1-N	3.9L 3856cc OHV Diesel L4 102mm Bore (8 Valve) L/D Truck	8
C223-T	2.2L 2238cc OHV Turbo-Diesel L4 88mm Bore (8 Valve) L/D Truck	4	4BD1-T	3.9L 3856cc OHV Turbo-Diesel L4 102mm Bore (8 Valve) L/D Truck	9
G180Z	1.8L 1817cc SOHC L4 84mm Bore (8 Valve) L/D Truck	1	4BD2-TC	3.9L 3856cc OHV Turbo-Diesel L4 102mm Bore (8 Valve) L/D Truck	9
G200Z	1.9L 1949cc SOHC L4 87mm Bore (8 Valve) L/D Truck	2	4ZD1	2.3L 2254cc SOHC L4 89.3mm Bore (8 Valve) L/D Truck	5
LL2	2.8L 2835cc OHV V6 89mm Bore (Chevrolet) (GMC Eng.) L/D Truck	7	4ZE1	2.6L 2559cc SOHC L4 92.6mm Bore (8 Valve) L/D Truck	6

## 1 1.8L 1817cc SOHC L4 (8 Valve), 84mm Bore 1982-81 L/D Truck Eng. Code "G180Z" 1981-82

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	82-81	CS-720	
8	ROCKER PARTS Arm	82-81	R-901	
4	VALVE Exhaust	82-81	V-2251 Std Only	Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.
4	Intake	82-81	V-2252 Std Only	Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.
4	VALVE GUIDE Guide	82-81	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.
4	Guide	82-81	VG-698	Int.; .3145" ID, 1.8000" O.A.L.
8	VALVE SEAL Valve Stem Seal	82-81	ST-2034	Positive type; Viton®
16	VALVE, MISC Keeper	82-81	VK-215	
1	PISTON Pin Bushing Set	82-81	4-3574Y	
1	RINGS Premium Set	82	E-519K.50MM .50MM	2-1.50MM, 1-4.00MM
1	Premium Set	81	E-357KC Std-1.00MM	2-2.00MM, 1-4.00MM
1	Standard Set	82	E-519X Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	81	E-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	82	WE-519KC Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	81	WE-357KC Std-.50-.75MM	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	81	WE-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
1	ENGINE BEARINGS Main Set	82-81	5028M Std-.25-.50-.75MM	

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# Isuzu Truck (Includes SUV's)

**1.8L 1817cc SOHC L4 (8 Valve), 84mm Bore 1982-81    1**  
**L/D Truck Eng. Code "G180Z" 1981-82 (cont.)**

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
		(cont.)				
	1	Thrust Washer Set	82-81	<b>3571BF</b> Std Only	Position 3	
	1	Rod Set	82-81	<b>4-3570CPB</b> Std-.25-.50-.75-1.00MM		
	1	Cam Set	82-81	<b>1858M</b> Std Only		
KITS	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	KITS
	1	Kit Gasket Set	82-81	<b>260-1090</b>	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
		RE-RING KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
	82	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		Re-ring Re-ring w/Mains	-----	<b>205-1360</b> <b>205-1360M</b>
	81	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		Re-ring	<b>205-829</b>	<b>205-329</b>

**1.9L 1949cc SOHC L4 (8 Valve), 87mm Bore 1987-83    2**  
**L/D Truck Eng. Code "G200Z" 1983-87**

VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Camshaft	87-83	<b>CS-720</b>		
	1	Prelube	87-83	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Arm	87-84	<b>R-1016</b>	Exh. & Int.; Trooper	
	8	Arm	87-83	<b>R-901</b>	Exh. & Int.; Pickup	
	1	Rocker Shaft	87	<b>RS-706</b>	Int.	
	1	Rocker Shaft	86	<b>RS-707</b>	Exh.; Trooper	
	1	Rocker Shaft	86	<b>RS-706</b>	Int.	
	1	Rocker Shaft	85-83	<b>RS-706</b>	Int.	
VALVE TRAIN	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	4	Exhaust	87-83	<b>V-2251</b> Std Only	Chrome plated stem; 1.3360" Head Dia., .3120" Stem Dia., 4.3010" O.A.L.	
	4	Intake	87-83	<b>V-2252</b> Std Only	Chrome plated stem; 1.5906" Head Dia., .3140" Stem Dia., 4.3543" O.A.L.	
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	4	Guide	87-83	<b>VG-697</b>	Exh.; .3148" ID, 2.1600" O.A.L.	
	4	Guide	87-83	<b>VG-698</b>	Int.; .3145" ID, 1.8000" O.A.L.	
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Spring	87-83	<b>VS-1528</b>	Outer; 1.8960" Free Height	
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	8	Valve Stem Seal	87-83	<b>ST-2034</b>	Positive type; Viton®	
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	16	Keeper	87-83	<b>VK-215</b>		
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
	4	Cast Piston	87-83	<b>592P.75MM</b> .75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.455" CD, .8662" Pin Dia., Flat Head	
	1	Pin Bushing Set	87-83	<b>4-3574Y</b>		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Premium Set	87	<b>E-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
	1	Premium Set	86	<b>E-475KC</b> Std-.50-.75MM	Exc. Trooper; 2-1.50MM, 1-4.00MM	
	1	Premium Set	85-83	<b>E-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
	1	Standard Set	87	<b>E-475X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	Standard Set	86	<b>E-475X</b> Std-.50-.75-1.00MM	Exc. Trooper; 2-1.50MM, 1-4.00MM	
	1	Standard Set	85-83	<b>E-475X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	87	<b>WE-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	86	<b>WE-475KC</b> Std-.50-.75MM	Exc. Trooper; 2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	85-83	<b>WE-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Main Set	87-86	<b>6631M</b> Std-.25-.50-.75MM		
	1	Main Set	85-83	<b>5028M</b> Std-.25-.50-.75MM		
	1	Thrust Washer Set	87-83	<b>3571BF</b> Std Only	Position 3	
	1	Rod Set	87-83	<b>4-3570CPB</b> Std-.25-.50-.75-1.00MM		
	1	Cam Set	87-83	<b>1858M</b> Std Only		
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Oil Pump	86	<b>224-43413</b>	Trooper	

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# Isuzu Truck (Includes SUV's)

## 2 1.9L 1949cc SOHC L4 (8 Valve), 87mm Bore 1987-83 (cont.) L/D Truck Eng. Code "G200Z" 1983-87

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87-83	260-1090	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.

K I T S	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	K I T S
	YEARS	DESCRIPTION				
	87	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6320	205-1320	
	87	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6320AM	205-1320AM	
	86	Exc. Trooper; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6320	205-1320	
	86	Exc. Trooper; Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6320AM	205-1320AM	
85-83	Exh. pipe packing not incl.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6320 205-6320M	205-1320 205-1320M		

## 3 2.2L 2238cc OHV Diesel L4 (8 Valve), 88mm Bore 1987-81 L/D Truck Eng. Code "C223" 1981-87

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	87-81	VG-750	.3153" ID, 1.9700" O.A.L.

B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	87-83	E-786KC Std Only	2-2.00MM, 1-4.00MM; Use w/Cast iron liners
	1	Premium Set	83-81	E-837KC Std Only	1-2.50MM, 1-2.00MM, 1-4.50MM; Use w/Cast iron liners
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-81	7094M Std-.25MM	Position 3	
1	Thrust Washer Set	87-81	67006BF Std Only		
1	Rod Set	87-81	4-4000CP Std-.25-.50-.75-1.00MM		
1	Cam Set	87-81	1746M Std Only		

## 4 2.2L 2238cc OHV Turbo-Diesel L4 (8 Valve), 88mm Bore 1987-86 L/D Truck Eng. Code "C223-T" 1986-87

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	87-86	V-2305X Std Only	1.2600" Head Dia., .3121" Stem Dia., 4.5600" O.A.L.

B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	87-86	E-728KC Std Only	1-2.50MM, 1-2.00MM, 1-4.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	87-86	7094M Std-.25MM	Position 3
1	Thrust Washer Set	87-86	67006BF Std Only		
1	Rod Set	87-86	4-4000CP Std-.25-.50-.75-1.00MM		
1	Cam Set	87-86	1746M Std Only		

## 5 2.3L 2254cc SOHC L4 (8 Valve), 89.3mm Bore 1990-86 L/D Truck Eng. Code "4ZD1" 1986-95

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-86	222-122	
1	Timing Belt Tensioner	90-86	222-263BT	
1	Timing Belt & Tensioner Set	90-86	BTS-122	

V A L V E T R A I N	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	90-86	CS-620	
	1	Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	90-86	R-1016	Exh. & Int.	
1	Rocker Shaft	90-86	RS-707	Exh.	
1	Rocker Shaft	90-86	RS-706	Int.	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	90-86	V-2634X Std Only	Chrome plated stem; 1.4130" Head Dia., .3120" Stem Dia., 4.3840" O.A.L.	
4	Intake	90-86	V-2616 Std Only	Chrome plated stem; 1.6630" Head Dia., .3130" Stem Dia., 4.3570" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	90-86	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.	
4	Guide	90-86	VG-698	Int.; .3145" ID, 1.8000" O.A.L.	

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# Isuzu Truck (Includes SUV's)

**2.3L 2254cc SOHC L4 (8 Valve), 89.3mm Bore 1990-86 5**  
**L/D Truck Eng. Code "4ZD1" 1986-95 (cont.)**

QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-86	VS-1528	1.8960" Free Height
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	Valve Stem Seal	90-86	ST-2034	Positive type; Viton®
4	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-86	245-1562-66 Std Only	1.5695" OD, 1.2650" ID, .2800" Depth
	Int.	90-86	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-89	VK-215	Exc. Amigo
	Keeper	88-86	VK-215	
1	PISTON	YEARS	PART NO.	DESCRIPTION
	Pin Bushing Set	90-86	4-3574Y	
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-86	E-616KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-86	E-616X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-86	WE-616KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-86	6631M Std-.25-.50-.75MM	
1	Thrust Washer Set	90-86	3571BF Std Only	Position 3
1	Rod Set	90-86	4-3570CPB Std-.25-.50-.75-1.00MM	
1	Cam Set	90-86	1858M Std Only	
1	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	Oil Pump	90-86	224-43413	
1	GASKETS	YEARS	PART NO.	DESCRIPTION
	Kit Gasket Set	90-86	260-1767	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	Brass Block Plug Kit	90-86	381-8101	
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-86	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6878	205-1878
		Re-ring w/Mains	205-6878M	205-1878M
<b>OVERHAUL KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
90-89	Amigo; Complete gskt. set	Block	BK-6279	----
90-89	Amigo; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6279	----
90-86	Pickup & Trooper; Complete gskt. set	Block	BK-6279	----
90-86	Pickup & Trooper; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs	BKP-6279	----

**2.6L 2559cc SOHC L4 (8 Valve), 92.6mm Bore 1990-88 6**  
**L/D Truck Eng. Code "4ZE1" 1988-97**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-147	
1	Timing Belt Tensioner	90-88	222-183BT	
1	Timing Belt & Tensioner Set	90-88	BTS-147	
1	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-620	
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
4	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	90-88	R-1016	Exh. & Int.
1	Rocker Shaft	90-88	RS-707	Exh.
1	Rocker Shaft	90-88	RS-706	Int.
4	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-88	V-2633 Std Only	Chrome plated stem; 1.4528" Head Dia., .3126" Stem Dia., 4.2559" O.A.L.
4	Intake	90-88	V-2632 Std Only	1.7360" Head Dia., .3130" Stem Dia., 4.2800" O.A.L.
4	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-88	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.
4	Guide	90-88	VG-698	Int.; .3145" ID, 1.8000" O.A.L.
8	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	Spring	90-88	VS-1528	1.8960" Free Height

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# Isuzu Truck (Includes SUV's)

**6** 2.6L 2559cc SOHC L4 (8 Valve), 92.6mm Bore 1990-88  
(cont.) L/D Truck Eng. Code "4ZE1" 1988-97

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-88	ST-2034	Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-88	245-1625-54 Std Only	1.6320" OD, 1.3290" ID, .2800" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-88	VK-215	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-88	13508P Std-.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 36.5mm CD, 23.0mm Pin Dia., Recessed Head 1.40mm deep x 80.00mm dia.
4	Cast Piston - Individual	90-88	W13508P Std-.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 36.5mm CD, 23.0mm Pin Dia., Recessed Head 1.40mm deep x 80.00mm dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-617K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-88	E-617X Std-.50-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-88	WE-617K1.00MM .50-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7320M Std-.25-.50MM	Thrust washer set not incl.
1	Thrust Washer Set	90-88	3571BF Std Only	Position 3
1	Rod Set	90-88	4-4595P Std-.25-.50MM	
1	Cam Set	90-88	1858M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-41996	Trooper, Pickup & Amigo
1	Oil Pump	89	224-41996	Trooper, Pickup & Amigo
1	Oil Pump	88	224-41996	Trooper & Pickup
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-88	260-1768	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8102	
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION			<b>PREMIUM KIT NO.</b>
90-88	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6875
90-88	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Thrust washer set not incl.	Re-ring w/Mains		205-6875M
<b>OVERHAUL KIT</b>				
YEARS	DESCRIPTION			<b>PREMIUM KIT NO.</b>
90-89	Exh. pipe packing not incl.; Trooper, Pickup & Amigo; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Thrust washer set not incl.	Block w/Pump & Freeze Plugs		BKP-6281
90-88	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Thrust washer set not incl.	Block		BK-6281
88	Exh. pipe packing not incl.; Trooper & Pickup; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.; Thrust washer set not incl.	Block w/Pump & Freeze Plugs		BKP-6281

**7** 2.8L 2835cc OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1990-89  
L/D Truck Eng. Code "LL2" 1989-91

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-89	KT3-368S	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	3 Piece Set	90-89	KT3-373S	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511
1	Timing Chain	90-89	222-368	11 links wide; 64 Links
1	Chain Damper	90-89	222-59CT	
1	Crank Sprocket	90-89	223-511	20 Teeth
1	Cam Sprocket	90-89	223-506	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-89	CS-1539	

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# Isuzu Truck (Includes SUV's)

2.8L 2835cc OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1990-89 **7**  
L/D Truck Eng. Code "LL2" 1989-91 (cont.)

	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
VALVE TRAIN	<b>QTY</b> 12 12 1	(cont.) Lifter Lifter, Bulk Prelube	<b>YEARS</b> 90-89 90-89 90-89	<b>PART NO.</b> <b>HT-2095</b> Std Only <b>HT-2095B</b> Std Only <b>55-400</b>	<b>DESCRIPTION</b> Hyd. Hyd.; Carton of 128 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b> 1	<b>CAM KIT</b> Cam/Lifter Kit	<b>YEARS</b> 90-89	<b>PART NO.</b> <b>KC-1539</b>	<b>DESCRIPTION</b> Hyd.; Incl. (1) CS-1539, (12) HT-2095, (1) 55-403B	
	<b>QTY</b> 12 12	<b>PUSH ROD</b> Push Rod Push Rod, Bulk	<b>YEARS</b> 90-89 90-89	<b>PART NO.</b> <b>RP-3207</b> <b>BRP-3207</b>	<b>DESCRIPTION</b> 6.1630" O.A.L. Carton of 100; 6.1630" O.A.L.	
	<b>QTY</b> 12 12 12 12	<b>ROCKER PARTS</b> Arm Assy. Arm Assy., Bulk Arm Stud	<b>YEARS</b> 90-89 90-89 90-89 90-89	<b>PART NO.</b> <b>R-881</b> <b>R-881B</b> <b>R-881A</b> <b>MR-1883</b>	<b>DESCRIPTION</b> Incl. arm, ball & nut Incl. arm, ball & nut; Carton of 64	
	<b>QTY</b> 6 6 6 6	<b>VALVE</b> Exhaust Exhaust, Bulk Intake Intake, Bulk	<b>YEARS</b> 90-89 90-89 90-89 90-89	<b>PART NO.</b> <b>V-2290</b> Std-15 <b>V-2290B15</b> 15 <b>V-2291</b> Std-15 <b>V-2291B15</b> 15	<b>DESCRIPTION</b> Chrome plated stem; 1.4250" Head Dia., .3413" Stem Dia., 4.7360" O.A.L. Chrome plated stem; Carton of 25; 1.4252" Head Dia., .3563" Stem Dia., 4.7370" O.A.L. Chrome plated stem; 1.7181" Head Dia., .3413" Stem Dia., 4.7050" O.A.L. Chrome plated stem; Carton of 25; 1.7181" Head Dia., .3563" Stem Dia., 4.7050" O.A.L.	
	<b>QTY</b> 12 12	<b>VALVE GUIDE</b> Guide Guide	<b>YEARS</b> 90-89 90-89	<b>PART NO.</b> <b>VG-1377</b> <b>VG-5080</b>	<b>DESCRIPTION</b> Exh. & Int.; w/Alum. heads; Incl. lock ring; Threaded; .3155" ID, 2.0850" O.A.L. Exh. & Int.; w/Cast iron head; .3440" ID, 2.0000" O.A.L.	
	<b>QTY</b> 12 12	<b>VALVE SPRING</b> Spring Spring, Bulk	<b>YEARS</b> 90-89 90-89	<b>PART NO.</b> <b>VS-798</b> <b>VS-798B</b>	<b>DESCRIPTION</b> Exh. & Int.; 1.9100" Free Height Exh. & Int.; Carton of 250; 1.9100" Free Height	
	<b>QTY</b> 12 12 12 12	<b>VALVE SEAL</b> Valve Stem Seal Valve Stem Seal Valve Stem Seal Bulk Valve Stem Seal Bulk	<b>YEARS</b> 90-89 90-89 90-89 90-89	<b>PART NO.</b> <b>MV-1233C</b> <b>MV-1888C</b> <b>MV-1233</b> <b>MV-1888</b>	<b>DESCRIPTION</b> O-Ring; Rubber Positive type; Viton® O-Ring; Carton of 100; Rubber Positive type; Carton of 50; Viton®	
	<b>QTY</b> 6 6 6 6	<b>VALVE SEAT</b> Exh. Exh. Int. Int.	<b>YEARS</b> 90-89 90-89 90-89 90-89	<b>PART NO.</b> <b>245-1500-1N</b> Std Only <b>245-1500-1</b> Std Only <b>245-1812-4N</b> Std Only <b>245-1812-4</b> Std Only	<b>DESCRIPTION</b> Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth 1.5045" OD, 1.2500" ID, .2160" Depth Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth 1.8175" OD, 1.5625" ID, .2160" Depth	
	<b>QTY</b> 24 24 24 12 12 12	<b>VALVE, MISC</b> Keeper Keeper Keeper, Bulk Spring Insert Spring Insert Spring Insert	<b>YEARS</b> 90-89 90-89 90-89 90-89 90-89 90-89	<b>PART NO.</b> <b>VK-115</b> <b>VK-115R</b> <b>VK-115B</b> <b>259-201B</b> <b>259-201A</b> <b>259-201ARS</b>	<b>DESCRIPTION</b> 1 groove; Square cut key groove 1 groove; Square cut key groove; Hardened 1 groove; Square cut key groove; Carton of 1000 .030"; Carton of 100 .060"; Carton of 100 .060"; Carton of 500	
	BLOCK	<b>QTY</b> 6	<b>PISTON</b> Cast Piston	<b>YEARS</b> 90-89	<b>PART NO.</b> <b>464CP</b> Std-.50-.75-1.00-1.50MM	<b>DESCRIPTION</b> Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
		6	Cast Piston	90-89	<b>464P</b> Std-.50-.75-1.00-1.50MM	Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6		Cast Piston - Individual	90-89	<b>W464P</b> Std-.50-.75-1.00-1.50MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head	
6		Cast Piston - Individual	90-89	<b>W464CP</b> Std-.50-.75-1.00-1.50MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>	
1		Cast Piston Set w/Prem. Rings	90-89	<b>6K464CP.75MM</b> .75-1.00MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, 23.0mm Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>	
<b>QTY</b> 1 1	<b>RINGS</b> Premium Set Standard Set	<b>YEARS</b> 90-89 90-89	<b>PART NO.</b> <b>E-432K</b> Std-.50-.75-1.00-1.50MM <b>E-432X</b> Std-.50-.75-1.00-1.50MM	<b>DESCRIPTION</b> 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove		

(continued on next page)

# Isuzu Truck (Includes SUV's)

## 7 2.8L 2835cc OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1990-89 (cont.) L/D Truck Eng. Code "LL2" 1989-91

QTY	RINGS (cont.)		YEARS	PART NO.	DESCRIPTION
	6	Premium Single Cylinder Set		90-89	<b>WE-432K</b> Std.-50-.75-1.00-1.50MM
6	Standard Single Cylinder Set		90-89	<b>WE-432X</b> Std.-50-.75-1.00-1.50MM	1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
	1	Main Set		90-89	<b>7244MA.25MM</b> .25-.50-.75MM
1	Main Set		90-89	<b>7242MA</b> Std.-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Rod Set		90-89	<b>6-4020A</b> Std.-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set		90-89	<b>6-4020A25X2</b> 25X2-50X2-75X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
6	Rod Pair		90-89	<b>4020A</b> Std.-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
6	Rod Pair		90-89	<b>4020P +</b> Std.-.026MM	When depleted use 4020A
1	Cam Set		90-89	<b>1492M</b> Std Only	Full round design
1	Cam Set		90-89	<b>1785M</b> Std Only	O.E. split type design
QTY	OIL PUMP		YEARS	PART NO.	DESCRIPTION
	1	Oil Pump		90	<b>224-4152V</b>
1	Oil Pump		90	<b>224-4152</b>	Trooper; 3/4" inlet
1	Oil Pump		89	<b>224-4148V</b>	Trooper; High Volume, check pan for clearance; 5/8" inlet
1	Oil Pump		89	<b>224-4148</b>	Trooper; 5/8" inlet
1	Pump Repair Kit		90-89	<b>224-51317</b>	Trooper
1	Inter. Shaft		90-89	<b>224-6148</b>	Trooper
1	Oil Pump Shaft Guide		90-89	<b>224-43351</b>	Trooper; Nylon
1	Screen Assy.		90-89	<b>224-14232</b>	Trooper; 5/8" inlet tube
QTY	GASKETS		YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set		90-89	<b>260-1232</b>
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION
	1	Steel Block Plug Kit		90-89	<b>381-4012</b>
KITS	RE-RING KIT				
	YEARS	DESCRIPTION			<b>PREMIUM KIT NO.</b>
	DESCRIPTION				<b>ECONOMY KIT NO.</b>
90-89	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		Re-ring		<b>205-6296</b>
90-89	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.; Incl. 3/4 grooved main brgs.		Re-ring w/Mains		<b>205-6296M</b>
90-89	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.		Block		<b>BK-6278</b>

## 8 3.9L 3856cc OHV Diesel L4 (8 Valve), 102mm Bore 1988-85 L/D Truck Eng. Code "4BD1-N" 1985-88

QTY	RINGS		YEARS	PART NO.	DESCRIPTION
	2	Premium Set		88-85	<b>10590KX</b> Std Only
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
	1	Main Set		88-85	<b>7194M</b> Std.-.25-.50MM
1	Thrust Washer Set		88-85	<b>3952BF</b> Std Only	
2	Rod Set		88-85	<b>2-3950CP</b> Std.-.25-.50-.75-1.00MM	

## 9 3.9L 3856cc OHV Turbo-Diesel L4 (8 Valve), 102mm Bore 1990-85 L/D Truck Eng. Codes "4BD1-T" 1985-94, "4BD2-TC" 1995-98

QTY	RINGS		YEARS	PART NO.	DESCRIPTION
	2	Premium Set		90-85	<b>10590KX</b> Std Only
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
	1	Main Set		90-85	<b>7194M</b> Std.-.25-.50MM
1	Thrust Washer Set		90-85	<b>3952BF</b> Std Only	

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# Isuzu Truck (Includes SUV's)

**3.9L 3856cc OHV Turbo-Diesel L4 (8 Valve), 102mm Bore 1990-85 9**  
**L/D Truck Eng. Codes "4BD1-T" 1985-94, "4BD2-TC" 1995-98 (cont.)**

QTY	ENGINE BEARINGS <small>(cont.)</small>	YEARS	PART NO.	DESCRIPTION
2	Rod Set	90-85	<b>2-3950CP</b> Std.-25-.50-.75- 1.00MM	

## Jeep

### Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
2.1L 126 (2068cc) SOHC Turbo-Diesel L4 86mm Bore (8 Valve) (Renault Eng.) L/D Truck	1990-85	1	3.8L 230 SOHC L6 3.3438" Bore (Tornado) (Continental Eng.) L/D Truck	1965-62	11
2.2L 134 F-HEAD L4 3.125" Bore (Hurricane) L/D Truck	1973-53	2	3.8L 232 OHV L6 3.75" Bore (Hi Torque) (AMC Eng.) L/D Truck	1979-65	12
2.2L 134 L-HEAD L4 3.125" Bore (Lightning) L/D Truck	1968-41	3	4.0L 242 OHV L6 3.875" Bore (Jeep) (AMC Eng.) L/D Truck	1990-87	13
2.4L 144.6 (2369cc) OHV Diesel L4 86mm Bore (8 Valve) (Isuzu Eng.) L/D Truck	1986-81	4	4.2L 258 OHV L6 3.75" Bore (AMC Eng.) L/D Truck	1990-71	14
2.5L 150 OHV L4 3.875" Bore (AMC) (AMC Eng.) L/D Truck	1990-83	5	5.0L 304 OHV V8 3.75" Bore (AMC Eng.) L/D Truck	1981-71	15
2.5L 151 OHV L4 4" Bore (Pontiac) (GMC Eng.) L/D Truck	1983-80	6	5.3L 327 OHV V8 4" Bore (Vigilante) (AMC Eng.) L/D Truck	1968-65	16
2.8L 173 (2835cc) OHV V6 89mm Bore (Chevrolet) (GMC Eng.) L/D Truck	1986-84	7	5.7L 350 OHV V8 3.8" Bore (Buick) (GMC Eng.) L/D Truck	1971-68	17
3.7L 225 OHV V6 3.75" Bore (Buick) (GMC Eng.) L/D Truck	1971-66	8	5.9L 360 OHV V8 4.08" Bore (AMC Eng.) L/D Truck	1990-70	18
3.7L 226 OHV L6 3.3125" Bore (12 Valve) (Continental Eng.) L/D Truck	1965-47	9	6.6L 401 OHV V8 4.165" Bore (AMC Eng.) L/D Truck	1978-74	19
3.7L 226 L-HEAD L6 3.3125" Bore (12 Valve) (Continental Eng.) L/D Truck	1963-54	10			

### Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
C240	2.4L 144.6 (2369cc) OHV Diesel L4 86mm Bore (8 Valve) (Isuzu Eng.) L/D Truck	4			
852	2.1L 126 (2068cc) SOHC Turbo-Diesel L4 86mm Bore (8 Valve) (Renault Eng.) L/D Truck	1			

**2.1L 126 (2068cc) SOHC Turbo-Diesel L4 (8 Valve), 86mm Bore (Renault Eng.) 1990-85 1**  
**L/D Truck VIN Code "B" 1985-90, Eng. Code "852" 1985-90**

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-85	<b>245-1437-66</b> Std Only	1.4445" OD, 1.1200" ID, .3000" Depth

**2.2L 134 F-HEAD L4 (Hurricane), 3.125" Bore 1973-53 2**  
**L/D Truck VIN Codes "F" 1970-71, "J" 1967-68, "R" 1972-73, "T" 1972-73, "4" 1967-68**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	73-54	<b>221-2901</b>	28 Teeth
1	Crank Gear	53	<b>221-2901</b>	From Eng. No. 44417; 28 Teeth
1	Cam Gear	73-53	<b>221-2900</b>	56 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	73-53	<b>CS-301</b>	
1	Prelube	73-53	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	73-53	<b>V-1681</b> Std Only	w/Rotocaps; Use w/Rotocaps; 1.4680" Head Dia., .3715" Stem Dia., 5.9130" O.A.L.
4	Intake	73-53	<b>V-1060</b> Std Only	2.0000" Head Dia., .3733" Stem Dia., 4.7910" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	73-53	<b>VG-130</b>	Exh.; .3750" ID, 3.0630" O.A.L.
4	Guide	73-53	<b>VG-460</b>	Int.; .3750" ID, 2.3750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
4	Spring	73-53	<b>VS-313</b>	Exh.; 2.5000" Free Height
4	Spring	73-53	<b>VS-415</b>	Int.; 1.9700" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	73-53	<b>MV-1551</b>	Int.; O-Ring; Carton of 50; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	73-53	<b>245-1562-4</b> Std Only	1.5670" OD, 1.3125" ID, .2480" Depth

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# Jeep

## 2 2.2L 134 F-HEAD L4 (Hurricane), 3.125" Bore 1973-53

(cont.) L/D Truck VIN Codes "F" 1970-71, "J" 1967-68, "R" 1972-73, "T" 1972-73, "4" 1967-68

QTY	VALVE SEAT (cont.)	YEARS	PART NO.	DESCRIPTION
4	Int.	73-53	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	73-53	VK-115	Exh.; 1 groove; Square cut key groove
8	Keeper	73-53	VK-115R	Exh.; 1 groove; Square cut key groove; Hardened
8	Keeper	73-53	VK-50	Int.
8	Keeper, Bulk	73-53	VK-115B	Exh.; 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	73-53	88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
4	Cast Piston - Individual	73-53	W88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	73-53	E-104KC Std-20-30-40-60	2-3/32, 1-3/16
1	Standard Set	73-53	E-104X Std-20-30-40-60-80	2-3/32, 1-3/16
4	Premium Single Cylinder Set	73-53	WE-104KC Std-20-30-40-60	2-3/32, 1-3/16
4	Standard Single Cylinder Set	73-53	WE-104X Std-20-30-40-60	2-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
4	Repair Sleeve	73-53	SL-9M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-53	558M Std-10-20-30-40-50-60-70	
1	Rod Set	73-53	4-9955SB Std-10-20-30-40-50-60-70-80	
4	Rod Pair	73-53	9955SB Std-10-20-30-40-50-60-70-80	
1	Cam Set	73-53	1091M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	73-53	224-41255	

## 3 2.2L 134 L-HEAD L4 (Lightning), 3.125" Bore 1968-41 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	68-42	221-2901	28 Teeth
1	Crank Gear	41	221-2901	From Eng. No. 44417; 28 Teeth
1	Cam Gear	68-46	221-2900	56 Teeth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	68-46	V-340 Std Only	1.4690" Head Dia., .3715" Stem Dia., 5.8100" O.A.L.
4	Exhaust	42-41	V-340 Std Only	1.4690" Head Dia., .3715" Stem Dia., 5.8100" O.A.L.
4	Intake	68-46	V-341 Std Only	1.5310" Head Dia., .3725" Stem Dia., 5.8100" O.A.L.
4	Intake	42-41	V-341 Std Only	1.5310" Head Dia., .3725" Stem Dia., 5.8100" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	68-46	VG-130	Exh.; .3750" ID, 3.0630" O.A.L.
4	Guide	68-46	VG-338	Int.; .3750" ID, 2.7500" O.A.L.
4	Guide	42-41	VG-130	Exh.; .3750" ID, 3.0630" O.A.L.
4	Guide	42-41	VG-338	Int.; .3750" ID, 2.7500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	68-46	VS-313	Exh. & Int.; 2.5000" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	68-46	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	68-46	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	42-41	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	42-41	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	68-46	VK-50	Exh. & Int.
16	Keeper	42-41	VK-50	Exh. & Int.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	68-46	88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
4	Cast Piston	42-41	88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
4	Cast Piston - Individual	68-46	W88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
4	Cast Piston - Individual	42-41	W88NP Std-20-30-40-60-80	Cast; 2-3/32", 1-3/16" Ring Groove, 2.167" CD, .8120" Pin Dia., Flat Head - 6.7:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	68-46	E-104KC Std-20-30-40-60	2-3/32, 1-3/16
1	Premium Set	42-41	E-104KC Std-20-30-40-60	2-3/32, 1-3/16

(continued on next page)

## 2.2L 134 L-HEAD L4 (Lightning), 3.125" Bore 1968-41 **3**

L/D Truck (cont.)

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Standard Set	68-46	<b>E-104X</b> Std-20-30-40-60-80	2-3/32, 1-3/16
1	Standard Set	42-41	<b>E-104X</b> Std-20-30-40-60-80	2-3/32, 1-3/16
4	Premium Single Cylinder Set	68-46	<b>WE-104KC</b> Std-20-30-40-60	2-3/32, 1-3/16
4	Premium Single Cylinder Set	42-41	<b>WE-104KC</b> Std-20-30-40-60	2-3/32, 1-3/16
4	Standard Single Cylinder Set	68-46	<b>WE-104X</b> Std-20-30-40-60	2-3/32, 1-3/16
4	Standard Single Cylinder Set	42-41	<b>WE-104X</b> Std-20-30-40-60	2-3/32, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
4	Repair Sleeve	66-46	<b>SL-9M</b> Std Only	3/32" wall, must be cut to correct length
4	Repair Sleeve	42-41	<b>SL-9M</b> Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-46	<b>558M</b> Std-10-20-30-40-50-60-70	
1	Main Set	42-41	<b>558M</b> Std-10-20-30-40-50-60-70	
1	Rod Set	68-46	<b>4-9955SB</b> Std-10-20-30-40-50-60-70-80	
1	Rod Set	42-41	<b>4-9955SB</b> Std-10-20-30-40-50-60-70-80	
4	Rod Pair	68-46	<b>9955SB</b> Std-10-20-30-40-50-60-70-80	
4	Rod Pair	42-41	<b>9955SB</b> Std-10-20-30-40-50-60-70-80	
1	Cam Set	68-46	<b>1091M</b> Std Only	
1	Cam Set	42-41	<b>1091M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	68-47	<b>224-41255</b>	
1	Oil Pump	46	<b>224-41255</b>	From Ser. No. 44417

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## 2.4L 144.6 (2369cc) OHV Diesel L4 (8 Valve), 86mm Bore (Isuzu Eng.) 1986-81 **4**

L/D Truck Eng. Code "C240" 1981-86

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	86-81	<b>6781M</b> Std Only	
1	Thrust Washer Set	86-81	<b>67328BF</b> Std Only	
1	Rod Set	86-81	<b>4-4000CP</b> Std-.25-.50-.75-1.00MM	
1	Cam Set	86-81	<b>1746M</b> Std Only	

## 2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1990-83 **5**

L/D Truck VIN Codes "E" 1989-90, "H" 1986-88 & 1997-2002, "P" 1991-2002, "U" 1983-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-83	<b>KT3-3SR64S</b>	Incl. (1) 222-3SR64, (1) 223-607, (1) 223-608A
1	Timing Chain	90-83	<b>222-3SR64</b>	Single rlr.; 64 Links
1	Timing Chain Tensioner	90-83	<b>222-167CT</b>	
1	Timing Chain Guide	90-83	<b>222-337GP</b>	
1	Crank Sprocket	90-83	<b>223-607</b>	24 Teeth
1	Cam Sprocket	90-83	<b>223-608A</b>	48 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-83	<b>CS-779</b>	
8	Lifter	90-83	<b>HT-2011</b> Std Only	Hyd.
8	Lifter, Bulk	90-83	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
1	Prelube	90-83	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-83	<b>KC-779</b>	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-83	<b>KCT-779</b>	Hyd.; Incl. (1) CS-779, (8) HT-2011, (1) KT3-3SR64S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	90-83	<b>RP-3236</b>	9.4860" O.A.L.
8	Push Rod, Bulk	90-83	<b>BRP-3236</b>	Carton of 100; 9.4860" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	90-83	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
8	Arm Assy., Bulk	90-83	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
8	Arm	90-83	<b>R-905A</b>	Stamped rocker arm
4	Bridge	90-83	<b>MR-1840</b>	
4	Pivot	90-83	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge
8	Pivot	90-83	<b>MR-1839</b>	Pivot only

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# Jeep

## 5 2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1990-83

(cont.) L/D Truck VIN Codes "E" 1989-90, "H" 1986-88 & 1997-2002, "P" 1991-2002, "U" 1983-88

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-87	V-2526 Std-15	Chrome plated stem; w/radius key groove; 1.5000" Head Dia., .3108" Stem Dia., 4.9390" O.A.L.
4	Exhaust	90-87	V-2295 Std Only	Chrome plated stem; Square cut key groove; 1.5000" Head Dia., .3115" Stem Dia., 4.9390" O.A.L.
4	Exhaust	86-83	V-2295 Std Only	Chrome plated stem; Square cut key groove; 1.5000" Head Dia., .3115" Stem Dia., 4.9390" O.A.L.
4	Exhaust, Bulk	90-87	V-2526B15 15	Chrome plated stem; w/radius key groove; Carton of 25; 1.5000" Head Dia., .3258" Stem Dia., 4.9390" O.A.L.
4	Intake	90-87	V-2527 Std-15	w/radius key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
4	Intake	90-87	V-2294 Std Only	Chrome plated stem; Square cut key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
4	Intake	86-83	V-2294 Std Only	Chrome plated stem; Square cut key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
4	Intake, Bulk	90-87	V-2527B15 15	w/radius key groove; Carton of 25; 1.9100" Head Dia., .3265" Stem Dia., 4.9110" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-88	VS-1456	Conical design; 2.0160" Free Height
8	Spring	87-83	VS-822	Cylindrical shape; 1.8340" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	90-84	ST-2043	Exh.; Positive type; Rubber
4	Valve Stem Seal	90-84	ST-2044	Int.; Positive type; Rubber
8	Valve Stem Seal	83	ST-2043	Exh. & Int.; Positive type; Rubber
4	Valve Stem Seal Bulk	90-84	ST-2043B	Exh.; Positive type; Carton of 1000; Rubber
8	Valve Stem Seal Bulk	83	ST-2043B	Exh. & Int.; Positive type; Carton of 1000; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-83	245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.	90-83	245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.	90-83	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-87	VK-216	Radius cut; 1 groove
16	Keeper	90-87	VK-144	1 groove; Square cut key groove
16	Keeper	90-87	VK-144R	1 groove; Square cut key groove; Hardened
16	Keeper	86-83	VK-144	1 groove; Square cut key groove
16	Keeper	86-83	VK-144R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	90-87	VK-216B	Radius cut; 1 groove; Carton of 1000
16	Keeper, Bulk	90-87	VK-144B	1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	86-83	VK-144B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-83	525CP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; DurOshield® skirt coated piston
4	Cast Piston	90-83	525P Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.
4	Cast Piston - Individual	90-83	W525CP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.; DurOshield® skirt coated piston
4	Cast Piston - Individual	90-83	W525P Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9310" Pin Dia., Recessed Head .116" deep - 9.2:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-83	E-450K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-83	E-450X Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set	90-83	WE-450K Std-20-30-40-60	2-5/64, 1-3/16
4	Standard Single Cylinder Set	90-83	WE-450X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-83	6676M Std-10-20-30	
1	Rod Set	90-83	4-3310CPA Std-10-20-30-40	
4	Rod Pair	90-83	3310CPA Std-1-2-10-20-30-40-50-60	
1	Cam Set	90-83	1244M Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-83	224-41198	Replaces pump w/cover having tab & slotted hole
1	Pump Repair Kit	90-83	224-51198	Use w/pump having cover w/tab & slotted hole
1	Screen Assy.	90-86	224-14229	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-86	260-1192	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-83	260-1191	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

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**2.5L 150 OHV L4 (AMC), 3.875" Bore (AMC Eng.) 1990-83 5**  
**L/D Truck VIN Codes "E" 1989-90, "H" 1986-88 & 1997-2002, "P" 1991-2002, "U" 1983-88 (cont.)**

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-83	381-8086			
<b>K I T S</b>	<b>RE-RING KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-86	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-859	205-359
			Re-ring w/Mains		205-859M	205-359M
	85-83	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-858	205-358
			Re-ring w/Mains		205-858M	205-358M
	<b>OVERHAUL KIT</b>					
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-86	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Block w/Pump & Freeze Plugs		BKP-6187	----
	90-86	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Block		BK-6187	----
	90-86	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master		MKP-7050	MKP-2050
			Master w/o Pistons		MK-7050	MK-2050
		Master w/o Rods & Mains		505-7050	505-2050	
90-86	Freeze plugs not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master		MKP-859A	MKP-359A	
		Master w/o Pistons		MK-859A	MK-359A	
		Master w/o Rods & Mains		505-859A	505-359A	
85-83	Freeze plugs not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole	Master		MKP-858A	MKP-358A	
		Master w/o Pistons		MK-858A	MK-358A	
		Master w/o Rods & Mains		505-858A	505-358A	

**2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80 6**  
**L/D Truck VIN Code "B" 1980-83**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set	83-80	221-2542LS	Laminated cam gear; 221-2520 not sold separately; Incl. (1) 221-2537, (1) 221-2542
1	Crank Gear	83-80	221-2537	27 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	83-80	CS-696	
8	Lifter	83-80	HT-969 Std Only	Hyd.; w/.440" wide oil groove
8	Lifter, Bulk	83-80	HT-969B Std Only	Hyd.; Carton of 128
1	Prelube	83-80	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Push Rod	83-82	RP-3211	8.9760" O.A.L.
8	Push Rod, Bulk	83-82	BRP-3211	Carton of 100; 8.9760" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Arm Assy.	83-80	R-894	Incl. arm & 2-pivots
8	Arm Assy., Bulk	83-80	R-894B	Incl. arm & 2-pivots; Carton of 64
8	Arm	83-80	R-894A	
8	Pivot Ball	83-80	MR-1832	Hole I.D. .4365"
8	Pivot Ball	83-80	MR-1841	Hole I.D. .4745"
8	Nut	83-80	MR-1934	3/8" x 24 UNF
8	Bolt	83-80	MR-1936	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	83-80	V-2203 Std Only	Chrome plated stem; 1.5000" Head Dia., .3422" Stem Dia., 4.6200" O.A.L.
4	Intake	83-80	V-2204 Std Only	Chrome plated stem; 1.7200" Head Dia., .3422" Stem Dia., 4.6690" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	83-80	VG-5005	Exh. & Int.; .3430" ID, 2.2500" O.A.L.
8	Guide	83-80	VG-5005H	Exh. & Int.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide	83-80	VG-5005T	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk	83-80	VG-5005B	Exh. & Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk	83-80	VG-5005TB	Exh. & Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	83-80	VS-521	Incl. damper; 2.1090" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	83-80	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	83-80	MV-1233C	O-Ring; Rubber
8	Valve Stem Seal Bulk	83-80	MV-1233	O-Ring; Carton of 100; Rubber

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# Jeep

## 6 2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80 (cont.) L/D Truck VIN Code "B" 1980-83

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal Bulk	83-80	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exh.	83-80	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Exh.	83-80	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	83-80	245-1812-4N Std Only	Premium Material; 1.8175" OD, 1.5625" ID, .2160" Depth
4	Int.	83-80	245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	83-80	VK-115	1 groove; Square cut key groove
16	Keeper	83-80	VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	83-80	VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Spring Insert	83-80	259-201B	.030"; Carton of 100
8	Spring Insert	83-80	259-201A	.060"; Carton of 100
8	Spring Insert	83-80	259-201ARS	.060"; Carton of 500
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	83-82	H553CP Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	83-80	H547CP Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston	83-80	H547P Std-20-30-40-60	Use w/E-384K or E-384X ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston	81-80	465AP * Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-80	465NP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston	81-80	H553CP Std-20-30-40-60	Use w/E-381K or E-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	83-82	WH553CP Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	83-80	WH547CP Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
4	Cast Piston - Individual	83-80	WH547P Std-20-30-40-60	Use w/WE-384K ring set; Hypereutectic; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.
4	Cast Piston - Individual	81-80	W465NP Std Only	Use w/WE-381K or WE-381X ring set; Cast; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9275" Pin Dia., Recessed Head .245" deep x 3.070" dia. - 8.2:1 C.R.
4	Cast Piston - Individual	81-80	WH553CP Std-20-30-40-60	Use w/WE-381K or WE-381X ring set; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.570" CD, .9280" Pin Dia., Recessed Head .220" deep x 3.070" dia. - 8.5:1 C.R.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	83-80	4KH547CP60 60	Cast; 1-1/16", 1-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .165" deep x 3.120" dia. w/shallow oil ring groove for low tension oil ring - 9.0:1 C.R.; <b>DurOshield® skirt coated piston</b>
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	83-82	E-384K Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Premium Set	83-80	E-381K Std-20-30-40-60	Use w/H553CP piston; 2-5/64, 1-3/16
1	Standard Set	83-82	E-384X Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
1	Standard Set	83-80	E-381X Std-20-30-40-60	Use w/H553CP piston; 2-5/64, 1-3/16
4	Premium Single Cylinder Set	83-82	WE-384K Std-20-30-40-60	1-1/16, 1-5/64, 1-3/16
4	Premium Single Cylinder Set	83-80	WE-381K Std-20-30	Use w/WH553CP piston; 2-5/64, 1-3/16
4	Standard Single Cylinder Set	83-80	WE-381X Std-20-30-40	Use w/WH553CP piston; 2-5/64, 1-3/16
<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Repair Sleeve	83-80	SL-22Y Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
4	Repair Sleeve	83-80	SL-22M Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"

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**2.5L 151 OHV L4 (Pontiac), 4" Bore (GMC Eng.) 1983-80 6**

L/D Truck VIN Code "B" 1980-83 (cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>
	1	Main Set	83-80	<b>6689MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>	
	1	Rod Set	83-80	<b>4-2500RAA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>	
	1	Rod Set	83-80	<b>4-2500RAA10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>	
	4	Rod Pair	83-80	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>	
	1	Cam Set	83-80	<b>1461M</b> Std Only		
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	83-80	<b>224-41239</b>		
	1	Oil Pump	83-80	<b>224-41239V</b>	High Volume, check pan for clearance	
	1	Inter. Shaft	83-80	<b>224-61239</b>		
1	Screen Assy.	83-80	<b>224-11239</b>			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	83-80	<b>260-1128</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	83-80	<b>381-8045</b>			
<b>RE-RING KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>205-714</b>	<b>205-214</b>
83-82	Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; For pistons w/1-1/16, 1-5/64, 1-3/16 ring groove			Re-ring		

**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1986-84 7**

L/D Truck VIN Code "W" 1984-86, Eng. I.D. Codes "T" 1985-86, "U" 1985-86 (Eng. I.D. Code is located at front of block & the code is the third character from the right)

<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E  T R A I N</b>
	1	3 Piece Set	86-84	<b>KT3-368S</b>	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511	
	1	3 Piece Set	86-84	<b>KT3-373S</b>	Incl. chain 11 links wide; Incl. (1) 222-368, (1) 223-506, (1) 223-511	
	1	Timing Chain	86-84	<b>222-368</b>	11 links wide; 64 Links	
	1	Chain Damper	86-84	<b>222-59CT</b>		
	1	Crank Sprocket	86-84	<b>223-511</b>	20 Teeth	
	1	Cam Sprocket	86-84	<b>223-506</b>	40 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	86-84	<b>CS-715</b>		
	12	Lifter	86-84	<b>HT-2095</b> Std Only	Hyd.	
	12	Lifter, Bulk	86-84	<b>HT-2095B</b> Std Only	Hyd.; Carton of 128	
	1	Prelube	86-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cam/Lifter Kit	86-84	<b>KC-715</b>	Hyd.; Incl. (1) CS-715, (12) HT-2095, (1) 55-403B	
	1	Cam/Lifter/Timing Kit	86-84	<b>KCT-715</b>	Hyd.; Incl. chain 11 links wide; Incl. (1) CS-715, (12) HT-2095, (1) KT3-368S, (1) 55-403B	
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Push Rod	86-84	<b>RP-3207</b>	6.1630" O.A.L.	
	12	Push Rod, Bulk	86-84	<b>BRP-3207</b>	Carton of 100; 6.1630" O.A.L.	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Arm Assy.	86-84	<b>R-881</b>	Incl. arm, ball & nut	
12	Arm Assy., Bulk	86-84	<b>R-881B</b>	Incl. arm, ball & nut; Carton of 64		
12	Arm	86-84	<b>R-881A</b>			
12	Stud	86-84	<b>MR-1883</b>			
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exhaust	86-84	<b>V-2172</b> Std Only	Chrome plated stem; 1.3070" Head Dia., .3413" Stem Dia., 4.7300" O.A.L.		
6	Intake	86-84	<b>V-2173</b> Std-15	Chrome plated stem; 1.5980" Head Dia., .3410" Stem Dia., 4.6970" O.A.L.		
6	Intake, Bulk	86-84	<b>V-2173B15</b> 15	Chrome plated stem; Carton of 25; 1.6000" Head Dia., .3563" Stem Dia., 4.7000" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Guide	86-84	<b>VG-5080</b>	Exh. & Int.; .3440" ID, 2.0000" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Spring	86-84	<b>VS-798</b>	Exh. & Int.; 1.9100" Free Height		
12	Spring, Bulk	86-84	<b>VS-798B</b>	Exh. & Int.; Carton of 250; 1.9100" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Valve Stem Seal	86-84	<b>MV-1233C</b>	Exh. & Int.; O-Ring; Rubber		
6	Valve Stem Seal	86-84	<b>MV-1888C</b>	Int.; Positive type; Viton®		

(continued on next page)

# Jeep

**7 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1986-84**  
 (cont.) **L/D Truck** VIN Code "W" 1984-86, Eng. I.D. Codes "T" 1985-86, "U" 1985-86 (Eng. I.D. Code is located at front of block & the code is the third character from the right)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal Bulk	86-84	<b>MV-1233</b>	Exh. & Int.; O-Ring; Carton of 100; Rubber
6	Valve Stem Seal Bulk	86-84	<b>MV-1888</b>	Int.; Positive type; Carton of 50; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	86-84	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	86-84	<b>245-1687-2</b> Std Only	1.6925" OD, 1.4375" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	86-84	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	86-84	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	86-84	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	86-84	<b>464CP</b> Std-.50-.75-1.00-1.50MM	Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	86-84	<b>464P</b> Std-.50-.75-1.00-1.50MM	Cast; Use w/E-411K, E-411KC or E-411X ring set; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston	86-84	<b>516P</b> Std-.50-.75-1.00-1.50MM	Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston	86-84	<b>516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "S"; Use w/E-432K or E-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
6	Cast Piston - Individual	86-84	<b>W464P</b> Std-.50-.75-1.00-1.50MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head
6	Cast Piston - Individual	86-84	<b>W464CP</b> Std-.50-.75-1.00-1.50MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, .9055" Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	86-84	<b>W516P</b> Std-.50-.75-1.00-1.50MM	Use w/WE-432K or WE-432X ring set; Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.
6	Cast Piston - Individual	86-84	<b>W516CP.50MM</b> .50-.75-1.00-1.50MM	VIN Code "W"; Use w/WE-478K or WE-478X ring set; Cast; 1-1.75mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.598" CD, .9055" Pin Dia., Flat Head w/shallow oil ring groove for low tension oil ring - 8.5:1 C.R.; DurOshield skirt coated piston
1	Cast Piston Set w/Prem. Rings	86-84	<b>6K464CP.75MM</b> .75-1.00MM	Cast; 1-1.50mm, 1-2.00mm, 1-4.75mm Ring Groove, 1.578" CD, 23.0mm Pin Dia., Flat Head; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	86	<b>E-432K</b> Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Premium Set	85-84	<b>E-411K</b> Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
1	Premium Set	85-84	<b>E-411KC</b> Std-.50-.75-1.00MM	1-1.50MM, 1-2.00MM, 1-4.76MM
1	Standard Set	86	<b>E-432X</b> Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
1	Standard Set	85-84	<b>E-411X</b> Std-.50-.75-1.00-1.50MM	w/deep oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.76MM
6	Premium Single Cylinder Set	86	<b>WE-432K</b> Std-.50-.75-1.00-1.50MM	1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Premium Single Cylinder Set	86-84	<b>WE-478K</b> Std-.50-.75-1.00MM	Use w/W516CP .50mm piston; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	85-84	<b>WE-411K</b> Std-.50-.75-1.00-1.50MM	1-1.50MM, 1-2.00MM, 1-4.76MM
6	Standard Single Cylinder Set	86	<b>WE-432X</b> Std-.50-.75-1.00-1.50MM	w/shallow oil ring groove; 1-1.50MM, 1-2.00MM, 1-4.75MM; w/Shallow oil ring groove
6	Standard Single Cylinder Set	86-84	<b>WE-478X</b> Std-.50-.75-1.00MM	Use w/W516CP .50mm piston; 2-1.50MM, 1-4.00MM
6	Standard Single Cylinder Set	85-84	<b>WE-411X</b> Std-.50-.75-1.00-1.50MM	1-1.50MM, 1-2.00MM, 1-4.76MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	86-85	<b>7242MA</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 3/4 grooved
1	Main Set	85	<b>7244MA.25MM</b> .25-.50-.75MM	<b>A-Series aluminum bearings</b> ; 2.6473/2.6479" std. shaft size; 3/4 grooved; .50MM O/S length flange brg.
1	Main Set	85-84	<b>5090MA</b> Std-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b> ; 2.4937/2.4946" std. shaft size

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**2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1986-84 7**  
**L/D Truck VIN Code "W" 1984-86, Eng. I.D. Codes "T" 1985-86, "U" 1985-86 (Eng. I.D. Code is located (cont.)**  
**at front of block & the code is the third character from the right)**

BLOCK	<b>ENGINE BEARINGS</b>				
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	85-84	<b>7243MA.25MM</b> .25-.50-.75MM	A-Series aluminum bearings; 2.4937/2.4946" std. shaft size; .50MM O/S length flange brg.	
	1	85-84	<b>7241MA</b> Std-.25-.50-.75MM	A-Series aluminum bearings; 2.4937/2.4946" std. shaft size; 3/4 grooved	
	1	86-84	<b>6-4020A</b> Std-.026-.25-.50-.75-1.00MM	A-Series aluminum bearings	
	1	86-84	<b>6-4020A25X2</b> 25X2-50X2-75X2	A-Series aluminum bearings; Use in .002" O/S Rod Bore	
	6	86-84	<b>4020A</b> Std-.026-.25-.50-.75-1.00MM	A-Series aluminum bearings	
	6	86-84	<b>4020P</b> + Std-.026MM	When depleted use 4020A	
	1	86-84	<b>1492M</b> Std Only	Full round design	
	1	86-84	<b>1785M</b> Std Only	O.E. split type design	
<b>QTY</b>	<b>OIL PUMP</b>				
	1	86-84	<b>224-43389V</b>	High Volume, check pan for clearance; Incl. shaft & screen	
	1	86-84	<b>224-4148V</b>	High Volume, check pan for clearance; 5/8" inlet	
	1	86-84	<b>224-4148</b>	5/8" inlet	
	1	86-84	<b>224-51317</b>	Pump Repair Kit	
1	86-84	<b>224-6148</b>	Inter. Shaft		
<b>QTY</b>	<b>GASKETS</b>				
	1	86	<b>260-1144</b>	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Premium valve stem seals incl.	
	1	86-85	<b>260-1143</b>	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Premium valve stem seals incl.	
1	84	<b>260-1123</b>	Exh. pipe packing not incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>				
	1	86-84	<b>381-8046</b>	Brass Block Plug Kit	
1	86-84	<b>381-4012</b>	Steel Block Plug Kit		

KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	86	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-727AM</b>	<b>205-227AM</b>
	86	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-727A</b>	<b>205-227A</b>
	86	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-728AM</b>	<b>205-228AM</b>
	86	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-728A</b>	<b>205-228A</b>
	85	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-6299</b>	<b>205-1299</b>
	84	Exh. pipe packing not incl.; Deep oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; w/2.4937/2.4946" std. shaft size; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-699M</b>	<b>205-199M</b>
	84	Exh. pipe packing not incl.; Deep oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.	Re-ring	<b>205-699</b>	<b>205-199</b>
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				
86	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Shallow oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-727C</b>	<b>505-227C</b>	
86	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Incl. 3/4 grooved main brgs.; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Pistons	<b>MK-727K</b>	<b>MK-227K</b>	
86	Eng. I.D. Code "T"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 3/4 grooved main brgs.; Incl. chain 11 links wide	Master	<b>MKP-727K</b>	<b>MKP-227K</b>	

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# Jeep

**7 2.8L 173 (2835cc) OHV V6 (Chevrolet), 89mm Bore (GMC Eng.) 1986-84**  
 (cont.) L/D Truck VIN Code "W" 1984-86, Eng. I.D. Codes "T" 1985-86, "U" 1985-86 (Eng. I.D. Code is located at front of block & the code is the third character from the right)

YEARS	DESCRIPTION	MASTER	PREMIUM	ECONOMY
			KIT NO.	KIT NO.
86	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Shallow oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 3/4 grooved main brgs.; Incl. chain 11 links wide	Master	<b>MKP-728C</b>	<b>MKP-228C</b>
86	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Shallow oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-728C</b>	<b>505-228C</b>
86	Eng. I.D. Code "U"; Exh. pipe packing not incl.; Shallow oil ring groove set; Freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. 3/4 grooved main brgs.; Incl. chain 11 links wide	Master	<b>MKP-728H</b>	<b>MKP-228H</b>
84	Exh. pipe packing not incl.; Deep oil ring groove set; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; Incl. chain 11 links wide	Master w/o Rods & Mains	<b>505-699A</b>	<b>505-199A</b>
84	Exh. pipe packing not incl.; Deep oil ring groove set; Incl. <b>A-Series aluminum bearings</b> ; Premium valve stem seals incl.; Incl. 5/8" inlet oil pump; w/2.4937/2.4946" std. shaft size; Incl. chain 11 links wide	Master Master w/o Pistons	<b>MKP-699D</b> <b>MK-699D</b>	<b>MKP-199D</b> <b>MK-199D</b>

**8 3.7L 225 OHV V6 (Buick), 3.75" Bore (GMC Eng.) 1971-66**  
 L/D Truck

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	71-66	<b>KT3-359S</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-334
1	Timing Chain	71-66	<b>222-359</b>	54 Links
1	Crank Sprocket	71-66	<b>223-323</b>	20 Teeth
1	Cam Sprocket	71-66	<b>223-334</b>	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	71-66	<b>CS-657</b>	
12	Lifter	71-66	<b>HT-896</b> Std Only	Hyd.
12	Lifter, Bulk	71-66	<b>HT-896B</b> Std Only	Hyd.; Carton of 126
1	Prelube	71-66	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	71-66	<b>RP-3173</b>	8.7230" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	71-66	<b>R-1051</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	71-66	<b>V-1744</b> Std Only	1.3750" Head Dia., .3401" Stem Dia., 4.5430" O.A.L.
6	Intake	71-66	<b>V-1745</b> Std Only	1.6250" Head Dia., .3410" Stem Dia., 4.5430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	71-66	<b>VG-5002</b>	.3420" ID, 3.0600" O.A.L.
6	Guide	71-66	<b>VG-5051T</b>	Int.; Threaded; .3440" ID, 2.5000" O.A.L.
12	Guide, Bulk	71-66	<b>VG-5002B</b>	Carton of 50; .3420" ID, 3.0600" O.A.L.
12	Guide, Bulk	71-66	<b>VG-5002TB</b>	Threaded; Carton of 50; .3430" ID, 3.0630" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	71-66	<b>VS-644</b>	2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	71-66	<b>ST-2001</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	71-66	<b>ST-2001BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	71-66	<b>245-1437-3N</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	71-66	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	71-66	<b>245-1750-1N</b> Std Only	Premium Material; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	71-66	<b>245-1750-1</b> Std Only	1.7555" OD, 1.5000" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	71-66	<b>VK-194</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	71-66	<b>1110P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
6	Cast Piston - Individual	71-66	<b>W1110P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.

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## 3.7L 225 OHV V6 (Buick), 3.75" Bore (GMC Eng.) 1971-66 **8**

L/D Truck (cont.)

	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
BLOCK	1	Premium Set	71-66	<b>E-222K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set	71-66	<b>E-222X</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Premium Single Cylinder Set	71-66	<b>WE-222K</b> Std-20-30-40-60	2-5/64, 1-3/16	
	6	Standard Single Cylinder Set	71-66	<b>WE-222X</b> Std-20-30-40-60	2-5/64, 1-3/16	
		<b>QTY</b>	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		6	Repair Sleeve	71-66	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
		<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Main Set	71-66	<b>7144MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
		1	Main Set	71-66	<b>7150MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .020" O/S length flange brg.
		1	Rod Set	71-66	<b>6-2500RAA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>
		6	Rod Pair	71-66	<b>2500RAA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
		1	Cam Set	71-66	<b>1205M</b> Std Only	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Pump Repair Kit	71-66	<b>224-51382</b>		
	1	Pump Repair Kit	71-66	<b>224-518</b>	Gear type	
	1	Pump Repair Kit	71-66	<b>224-518V</b>	High Volume; Installation may require timing cover removal	
	1	Pump Repair Kit	71-66	<b>224-518TP</b>	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions	

## 3.7L 226 OHV L6 (12 Valve), 3.3125" Bore (Continental Eng.) 1965-47 **9**

L/D Truck

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	1	Timing Chain	65-60	<b>222-489</b>	46 Links	
	1	Timing Chain	59	<b>222-489</b>	From Eng. No. SW-6L14188 & TW-6L90919; 46 Links	
	1	Crank Sprocket	58	<b>223-234A</b>	To Eng. No. SW-6L14188 & TW-6L90919; 18 Teeth	
	1	Crank Sprocket	57-54	<b>223-234A</b>	18 Teeth	
	1	Cam Sprocket	58	<b>223-233</b>	To Eng. No. SW-6L14188 & TW-6L90919; 36 Teeth	
	1	Cam Sprocket	57-54	<b>223-233</b>	36 Teeth	
		<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		6	Exhaust	62-48	<b>V-959</b> Std Only	1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.
		6	Exhaust	47	<b>V-954</b> Std Only	Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
		6	Exhaust	47	<b>V-959</b> Std Only	1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.
		6	Intake	62-48	<b>V-1203</b> Std Only	1.5200" Head Dia., .3405" Stem Dia., 5.1820" O.A.L.
		6	Intake	47	<b>V-801</b> Std Only	1.5200" Head Dia., .3411" Stem Dia., 5.1760" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Guide	62-47	<b>VG-336</b>	.3427" ID, 2.5600" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Spring	62-48	<b>VS-310</b>	Exh. & Int.; 1.9690" Free Height	
	6	Spring	47	<b>VS-310</b>	Exh. & Int.; w/o Rotators; 1.9690" Free Height	
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Exh.	62-47	<b>245-1437-3N</b> Std Only	Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth	
	6	Exh.	62-47	<b>245-1437-3</b> Std Only	1.4425" OD, 1.1880" ID, .2160" Depth	
	6	Int.	62-47	<b>245-1625-1N</b> Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth	
	6	Int.	62-47	<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth	
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	24	Keeper	62-48	<b>VK-115</b>	Exh. & Int.; 1 groove; Square cut key groove	
	24	Keeper	62-48	<b>VK-115R</b>	Exh. & Int.; 1 groove; Square cut key groove; Hardened	
	12	Keeper	47	<b>VK-27</b>	Exh.; w/o Rotocaps	
	12	Keeper	47	<b>VK-115</b>	Exh.; w/Rotocaps; 1 groove; Square cut key groove	
	12	Keeper	47	<b>VK-115R</b>	Exh.; w/Rotocaps; 1 groove; Square cut key groove; Hardened	
	12	Keeper	47	<b>VK-27</b>	Int.	
	24	Keeper, Bulk	62-48	<b>VK-115B</b>	Exh. & Int.; 1 groove; Square cut key groove; Carton of 1000	
	12	Keeper, Bulk	47	<b>VK-115B</b>	Exh.; w/Rotocaps; 1 groove; Square cut key groove; Carton of 1000	
BLOCK	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	6	Pin Bushing	65-54	<b>8649XAS</b>	Full round, thin wall .0055" O/S OD bushing	
	6	Pin Bushing	65-54	<b>8649XA</b>	Full round, thin wall bushing w/.9150" OD	
	6	Pin Bushing	65-54	<b>8649V</b>	Split type, thin wall bushing w/.9135" OD	
	6	Pin Bushing	65-54	<b>8649V20</b>	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Standard Set	65-54	<b>5141X30</b> 30	2-3/32, 2-5/32	

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# Jeep

<b>9 3.7L 226 OHV L6 (12 Valve), 3.3125" Bore (Continental Eng.) 1965-47</b> (cont.) L/D Truck					
BLOCK	QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
	6	Repair Sleeve	62-47	SL-12M Std Only	3/32" wall, must be cut to correct length
	3	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	3	Rod Pair	65-54	1995CPA Std-10-20-30-40-50	Position 1-3-5; Use on all 6 positions if rod Forging No. ends in 402
3	Rod Pair	65-54	1995CP Std-10-20-30-40	Position 2-4-6	
1	Cam Set	65-54	1088M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	62-54	224-41171		
<b>10 3.7L 226 L-HEAD L6 (12 Valve), 3.3125" Bore (Continental Eng.) 1963-54</b> L/D Truck VIN Code "T" 1954-66					
BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	62-60	222-489	46 Links
	1	Timing Chain	59	222-489	From Eng. No. SW-6L14188 & TW-6L90919; 46 Links
	1	Crank Sprocket	58	223-234A	To Eng. No. SW-6L14188 & TW-6L90919; 18 Teeth
	1	Crank Sprocket	57-54	223-234A	18 Teeth
	1	Cam Sprocket	58	223-233	To Eng. No. SW-6L14188 & TW-6L90919; 36 Teeth
1	Cam Sprocket	57-54	223-233	36 Teeth	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Pin Bushing	63-54	8649XAS	Full round, thin wall .0055" O/S OD bushing
	6	Pin Bushing	63-54	8649XA	Full round, thin wall bushing w/.9150" OD
	6	Pin Bushing	63-54	8649V	Split type, thin wall bushing w/.9135" OD
	6	Pin Bushing	63-54	8649V20	Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	3	Rod Pair	63-54	1995CPA Std-10-20-30-40-50	Position 1-3-5
	3	Rod Pair	63-54	1995CP Std-10-20-30-40	Position 2-4-6
1	Cam Set	63-54	1088M Std Only		
<b>11 3.8L 230 SOHC L6 (Tornado), 3.3438" Bore (Continental Eng.) 1965-62</b> L/D Truck					
VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	12	Guide	65-63	VG-612	.3425" ID, 2.1870" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	12	Valve Stem Seal	65-63	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
	12	Valve Stem Seal Bulk	65-63	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	6	Exh.	65-63	245-1750-4 Std Only	1.7555" OD, 1.4375" ID, .2480" Depth
	6	Int.	65-63	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	24	Keeper	65-63	VK-115	1 groove; Square cut key groove
	24	Keeper	65-63	VK-115R	1 groove; Square cut key groove; Hardened
	24	Keeper, Bulk	65-63	VK-115B	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	65-63	259-200B	.030"; Carton of 100	
12	Spring Insert	65-63	259-200A	.060"; Carton of 100	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
6	Pin Bushing	65-63	8649XA	Full round, thin wall bushing w/.9150" OD	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	65-62	381-8000	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	
<b>12 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore (AMC Eng.) 1979-65</b> L/D Truck VIN Code "E" 1967-79					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set	79-66	KT3-494S	Incl. (1) 222-494, (1) 223-355, (1) 223-388
	1	Timing Chain	79-66	222-494	48 Links
	1	Crank Sprocket	79-66	223-355	18 Teeth
	1	Cam Sprocket	79-66	223-388	36 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	79-76	CS-652	VIN Code "E"
	1	Camshaft	75-66	CS-652	
	12	Lifter	79-66	HT-2011 Std Only	Hyd.
	12	Lifter, Bulk	79-66	HT-2011B Std Only	Hyd.; Carton of 117
	1	Prelube	79-66	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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**3.8L 232 OHV L6 (Hi Torque), 3.75" Bore (AMC Eng.) 1979-65 12**  
**L/D Truck VIN Code "E" 1967-79 (cont.)**

<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	79-76	<b>KC-652</b>	VIN Code "E"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
1	Cam/Lifter Kit	75-66	<b>KC-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-76	<b>KCT-652</b>	VIN Code "E"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
1	Cam/Lifter/Timing Kit	75-66	<b>KCT-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	78-75	<b>RP-3171</b>	9.5940" O.A.L.
12	Push Rod	74	<b>RP-3163</b>	w/Cast iron rocker arms; 9.6560" O.A.L.
12	Push Rod	74	<b>RP-3171</b>	w/Stamped steel rocker arms; 9.5940" O.A.L.
12	Push Rod	73-72	<b>RP-3163</b>	9.6560" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Arm Assy.	79-75	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
6	Arm Assy.	74	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
6	Arm Assy., Bulk	79-75	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
6	Arm Assy., Bulk	74	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
12	Arm	74	<b>R-864</b>	Cast iron
12	Arm	73-66	<b>R-864</b>	Cast iron
6	Bridge	79-72	<b>MR-1840</b>	
12	Pivot	79-74	<b>MR-1909</b>	w/o rocker arm shaft; Incl. 2-pivots & 1-bridge
12	Pivot	79-72	<b>MR-1839</b>	Pivot only
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	79-74	<b>V-2023</b> Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	73-66	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Intake	79-72	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	71-68	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	67-66	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Guide	79-66	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	79-78	<b>VS-743</b>	1.9900" Free Height
12	Spring	77	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	77	<b>VS-743</b>	w/Rotators; 1.9900" Free Height
12	Spring	76-74	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	73-66	<b>VS-666</b>	w/damper; 2.2600" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	79-66	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	79-66	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	79-66	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	79-66	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	79-66	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	79-66	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	79-77	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	79-77	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	79-66	<b>VK-174</b>	4 groove
24	Keeper	79-66	<b>VK-174R</b>	4 groove; Hardened
24	Keeper	71-66	<b>VK-138</b>	1 groove; Square cut key groove
24	Keeper	71-66	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	79-77	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	71-66	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	79-66	<b>259-203C</b>	.015"; Carton of 100
12	Spring Insert	79-66	<b>259-203B</b>	.030"; Carton of 100
12	Spring Insert	79-66	<b>259-203BRS</b>	.030"; Carton of 500
12	Spring Insert	79-66	<b>259-203A</b>	.060"; Carton of 100
12	Spring Insert	79-66	<b>259-203ARS</b>	.060"; Carton of 500

**VALVE TRAIN**

**VALVE TRAIN**

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# Jeep

## 12 3.8L 232 OHV L6 (Hi Torque), 3.75" Bore (AMC Eng.) 1979-65

(cont.) L/D Truck VIN Code "E" 1967-79

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	79-78	<b>456NP</b> Std-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	79-78	<b>456P</b> Std-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	77	<b>456NP</b> Std-30-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	77	<b>456P</b> Std-30-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	77	<b>409P</b> Std-20-30-40-60	Exc. Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston	76-68	<b>409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston	67-66	<b>409P</b> Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	79-78	<b>W456NP</b> * Std Only	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston - Individual	79-78	<b>W456P</b> Std-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston - Individual	77	<b>W456NP</b> * Std Only	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston - Individual	77	<b>W456P</b> Std-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston - Individual	77	<b>W409P</b> Std-20-30-40-60	Exc. Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	76-68	<b>W409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	67-66	<b>W409P</b> Std-20-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-66	<b>E-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	79-66	<b>E-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	79-66	<b>WE-222K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	79-66	<b>WE-222X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	79-66	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	78-66	<b>4289M</b> Std-10-20-30-40-60	
1	Rod Set	78-66	<b>6-3310CPA</b> Std-1-10-20-30-40-50-60	
6	Rod Pair	78-66	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60	
1	Cam Set	78-66	<b>1244M</b> Std-10	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	79	<b>224-41199</b>	Replaces pump w/o cover having tab & slotted hole
1	Oil Pump	78-66	<b>224-43428</b>	Incl. pump & screen
1	Oil Pump	78-66	<b>224-41199</b>	Replaces pump w/o cover having tab & slotted hole
1	Screen Assy.	78-75	<b>224-15056</b>	Use w/oil pump having cover w/tab & slotted hole
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	79-65	<b>260-1007</b>	Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	79-65	<b>381-8000</b>	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Engs.
RE-RING KIT			<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION		<i>KIT NO.</i>	<i>KIT NO.</i>
78-66	Premium valve stem seals incl.	Re-ring	<b>205-610</b>	<b>205-110</b>
		Re-ring w/Mains	<b>205-610M</b>	<b>205-110M</b>



**4.0L 242 OHV L6 (Jeep), 3.875" Bore (AMC Eng.) 1990-87 13**  
**L/D Truck VIN Codes "L" 1989-90, "M" 1987-88, "S" 1991-2006, "V" 1997-2005**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-87	<b>KT3-4SR48</b>	Incl. (1) 222-4SR48, (1) 223-688, (1) 223-689
1	Timing Chain	90-87	<b>222-4SR48</b>	Single rlr.; 48 Links
1	Timing Chain Guide	90-87	<b>222-337GP</b>	
1	Crank Sprocket	90-87	<b>223-689</b>	18 Teeth
1	Cam Sprocket	90-87	<b>223-688</b>	38 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-87	<b>CS-809</b>	
12	Lifter	90-87	<b>HT-2011</b> Std Only	Hyd.
12	Lifter, Bulk	90-87	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-87	<b>KC-809</b>	Hyd.; Incl. (1) CS-809, (12) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-87	<b>KCT-809</b>	Hyd.; Incl. (1) CS-809, (12) HT-2011, (1) KT3-4SR48, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	90-87	<b>RP-3275</b>	9.6410" O.A.L.
12	Push Rod, Bulk	90-87	<b>BRP-3275</b>	Carton of 100; 9.6410" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	90-87	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
6	Arm Assy., Bulk	90-87	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
12	Arm	90-87	<b>R-905A</b>	Stamped rocker arm
6	Bridge	90-87	<b>MR-1840</b>	
12	Pivot	90-87	<b>MR-1839</b>	Pivot only
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-87	<b>V-2526</b> Std-15	Chrome plated stem; w/radius key groove; 1.5000" Head Dia., .3108" Stem Dia., 4.9390" O.A.L.
6	Exhaust, Bulk	90-87	<b>V-2526B15</b> 15	Chrome plated stem; w/radius key groove; Carton of 25; 1.5000" Head Dia., .3258" Stem Dia., 4.9390" O.A.L.
6	Intake	90-87	<b>V-2527</b> Std-15	w/radius key groove; 1.9100" Head Dia., .3115" Stem Dia., 4.9110" O.A.L.
6	Intake, Bulk	90-87	<b>V-2527B15</b> 15	w/radius key groove; Carton of 25; 1.9100" Head Dia., .3265" Stem Dia., 4.9110" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-87	<b>VS-1456</b>	Conical design; 2.0160" Free Height
12	Spring	90-87	<b>VS-822</b>	Cylindrical shape; 1.8340" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90-87	<b>ST-2043</b>	Exh.; Positive type; Rubber
6	Valve Stem Seal	90-87	<b>ST-2044</b>	Int.; Positive type; Rubber
6	Valve Stem Seal Bulk	90-87	<b>ST-2043B</b>	Exh.; Positive type; Carton of 1000; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-87	<b>245-1562-36</b> Std Only	1.5670" OD, 1.3125" ID, .1860" Depth
6	Int.	90-87	<b>245-2000-1</b> Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-87	<b>VK-216</b>	1 groove
24	Keeper, Bulk	90-87	<b>VK-216B</b>	1 groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90-87	<b>677P</b> Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9310" Pin Dia., Recessed Head .116" deep
6	Cast Piston	90-87	<b>677CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9310" Pin Dia., Recessed Head .116" deep; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	90-87	<b>W677P</b> Std-10-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9310" Pin Dia., Recessed Head .116" deep
6	Cast Piston - Individual	90-87	<b>W677CP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9310" Pin Dia., Recessed Head .116" deep; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	<b>E-234K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	90-87	<b>E-234X</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	90-87	<b>WE-234K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	90-87	<b>WE-234X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-87	<b>4289M</b> Std-10-20-30-40-60	
1	Rod Set	90-87	<b>6-3310CPA</b> Std-1-10-20-30-40-50-60	
6	Rod Pair	90-87	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60	

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

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## 13 4.0L 242 OHV L6 (Jeep), 3.875" Bore (AMC Eng.) 1990-87 (cont.) L/D Truck VIN Codes "L" 1989-90, "M" 1987-88, "S" 1991-2006, "V" 1997-2005

BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	BLOCK		
	(cont.)							
	1	Cam Set	90-87	1244M Std-10				
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
	1	Oil Pump	90-87	224-43505	High Volume, check pan for clearance; Incl. screen			
1	Oil Pump	90-87	224-41198	Replaces pump w/cover having tab & slotted hole				
1	Pump Repair Kit	90-87	224-51198	Exc. High Volume; Use w/pump having cover w/tab & slotted hole				
1	Screen Assy.	90-87	224-14270					
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION				
1	Kit Gasket Set	90-87	260-1424	Exh. pipe packing not incl.; Premium valve stem seals incl.				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit	90-87	381-8084					
1	Steel Block Plug Kit	90-87	381-9674					
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	90-87	Exh. pipe packing not incl.; Premium valve stem seals incl.		Re-ring		205-6092	205-1092	
				Re-ring w/Mains		205-6092M	205-1092M	
	OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	
	90-87	Exh. pipe packing not incl.; Freeze plugs not incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole		Master		MKP-6092A	MKP-1092A	
				Master w/o Pistons		MK-6092A	MK-1092A	
				Master w/o Rods & Mains		505-6092A	505-1092A	
	90-87	Exh. pipe packing not incl.; Premium valve stem seals incl.		Block		BK-6193	----	
	90-87	Exh. pipe packing not incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole		Block w/Pump & Freeze Plugs		BKP-6193	----	
	90-87	Exh. pipe packing not incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole		Master		MKP-7053	MKP-2053	
			Master w/o Pistons		MK-7053	MK-2053		
			Master w/o Rods & Mains		505-7053	505-2053		

## 14 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	1	3 Piece Set	90-87	KT3-504S	Incl. (1) 222-504, (1) 223-355, (1) 223-388		
	1	3 Piece Set	86-71	KT3-494S	Incl. (1) 222-494, (1) 223-355, (1) 223-388		
	1	Timing Chain	90-87	222-504	48 Links		
	1	Timing Chain	86-71	222-494	48 Links		
	1	Crank Sprocket	90-71	223-355	18 Teeth		
	1	Cam Sprocket	90-71	223-388	36 Teeth		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION			
1	Camshaft	90-81	CS-713				
1	Camshaft	80-79	CS-652	VIN Code "A"			
1	Camshaft	80-79	CS-652	VIN Code "C"; w/M/T			
1	Camshaft	78-76	CS-652	VIN Code "A"			
1	Camshaft	75-71	CS-652				
12	Lifter	90-71	HT-2011 Std Only	Hyd.			
12	Lifter, Bulk	90-71	HT-2011B Std Only	Hyd.; Carton of 117			
1	Prelube	90-71	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.			
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION			
1	Cam/Lifter Kit	90-81	KC-713	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) 55-403B			
1	Cam/Lifter Kit	80-79	KC-652	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B			
1	Cam/Lifter Kit	80-79	KC-652	VIN Code "C"; w/M/T; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B			
1	Cam/Lifter Kit	78-76	KC-652	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B			
1	Cam/Lifter Kit	75-71	KC-652	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) 55-403B			
1	Cam/Lifter/Timing Kit	90-87	KCT-713A	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) KT3-504S, (1) 55-403B			
1	Cam/Lifter/Timing Kit	86-81	KCT-713	Hyd.; Incl. (1) CS-713, (12) HT-2011, (1) KT3-494S, (1) 55-403B			
1	Cam/Lifter/Timing Kit	80-79	KCT-652	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B			
1	Cam/Lifter/Timing Kit	80-79	KCT-652	VIN Code "C"; w/M/T; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B			
1	Cam/Lifter/Timing Kit	78-76	KCT-652	VIN Code "A"; Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B			

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**4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 14**

**L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90 (cont.)**

<b>QTY</b>	<b>CAM KIT (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter/Timing Kit	75-71	<b>KCT-652</b>	Hyd.; Incl. (1) CS-652, (12) HT-2011, (1) KT3-494S, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod	90-89	<b>RP-3276</b>	9.7480" O.A.L.
12	Push Rod	88-83	<b>RP-3235</b>	9.7200" O.A.L.
12	Push Rod	82-81	<b>RP-3200</b>	9.6210" O.A.L.
12	Push Rod	80-75	<b>RP-3171</b>	9.5940" O.A.L.
12	Push Rod	74	<b>RP-3163</b>	w/Cast iron rocker arms; 9.6560" O.A.L.
12	Push Rod	74	<b>RP-3171</b>	w/Stamped steel rocker arms; 9.5940" O.A.L.
12	Push Rod	73-72	<b>RP-3163</b>	9.6560" O.A.L.
12	Push Rod, Bulk	88-83	<b>BRP-3235</b>	Carton of 100; 9.7200" O.A.L.
12	Push Rod, Bulk	82-81	<b>BRP-3200</b>	Carton of 100; 9.6210" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Arm Assy.	90-75	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
6	Arm Assy.	74	<b>R-905</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm
6	Arm Assy., Bulk	90-75	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
6	Arm Assy., Bulk	74	<b>R-905B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Stamped rocker arm; Carton of 32
12	Arm	90-75	<b>R-905A</b>	Stamped rocker arm
12	Arm	74	<b>R-864</b>	Cast iron
12	Arm	73-71	<b>R-864</b>	Cast iron
6	Bridge	90-74	<b>MR-1840</b>	
6	Pivot	90-74	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge
12	Pivot	90-74	<b>MR-1839</b>	Pivot only
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90-81	<b>V-2205</b> Std Only	1 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	80-73	<b>V-2023</b> Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Exhaust	72-71	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
6	Intake	90-81	<b>V-2206</b> Std Only	1 groove; Chrome plated stem; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	80-73	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
6	Intake	72-71	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Guide	72-71	<b>VG-5062</b>	.3735" ID, 2.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	90-78	<b>VS-743</b>	1.9900" Free Height
12	Spring	77	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	77	<b>VS-743</b>	w/Rotators; 1.9900" Free Height
12	Spring	76-74	<b>VS-666</b>	w/o Rotators; w/damper; 2.2600" Free Height
12	Spring	73-71	<b>VS-666</b>	w/damper; 2.2600" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	90-71	<b>ST-2004</b>	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	90-71	<b>ST-2004BC</b>	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-71	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.	90-71	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
6	Int.	90-71	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
6	Int.	90-71	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	90-81	<b>VK-138</b>	1 groove; Square cut key groove
24	Keeper	90-81	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	80-79	<b>VK-174</b>	4 groove
24	Keeper	80-79	<b>VK-174R</b>	4 groove; Hardened
24	Keeper	78-74	<b>VK-115</b>	1 groove; Square cut key groove
24	Keeper	78-74	<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	78-74	<b>VK-174</b>	4 groove
24	Keeper	78-74	<b>VK-174R</b>	4 groove; Hardened
24	Keeper	73-71	<b>VK-138</b>	1 groove; Square cut key groove
24	Keeper	73-71	<b>VK-138R</b>	1 groove; Square cut key groove; Hardened
24	Keeper	73-71	<b>VK-174</b>	4 groove
24	Keeper	73-71	<b>VK-174R</b>	4 groove; Hardened

**VALVE TRAIN**

**VALVE TRAIN**

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## 14 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 (cont.) L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
24	Keeper, Bulk	90-81	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	78-74	<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
24	Keeper, Bulk	73-71	<b>VK-138B</b>	1 groove; Square cut key groove; Carton of 1000
12	Spring Insert	90-71	<b>259-203C</b>	.015"; Carton of 100
12	Spring Insert	90-71	<b>259-203B</b>	.030"; Carton of 100
12	Spring Insert	90-71	<b>259-203BRS</b>	.030"; Carton of 500
12	Spring Insert	90-71	<b>259-203A</b>	.060"; Carton of 100
12	Spring Insert	90-71	<b>259-203ARS</b>	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	<b>470NP</b> Std-20-30-40-60	VIN Code "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	90	<b>470AP</b> Std-20-30-40-60	VIN Code "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston	89	<b>470NP</b> Std-20-30-40-60	VIN Codes "M" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	89	<b>470AP</b> Std-20-30-40-60	VIN Codes "M" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston	88	<b>470NP</b> Std-20-30-40-60	VIN Codes "C" & "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	88	<b>470AP</b> Std-20-30-40-60	VIN Codes "C" & "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston	87-79	<b>470NP</b> Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston	87-79	<b>470AP</b> Std-20-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston	79-78	<b>456NP</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	79-78	<b>456P</b> Std-30-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	77	<b>456NP</b> Std-30-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep
6	Cast Piston	77	<b>456P</b> Std-30-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep
6	Cast Piston	77	<b>409P</b> Std-20-30-40-60	Exc. Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston	76-71	<b>409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.
6	Cast Piston - Individual	90	<b>W470NP</b> Std-30-40-60	VIN Code "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston - Individual	90	<b>W470AP</b> * Std-30-40-60	VIN Code "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	89	<b>W470NP</b> Std-30-40-60	VIN Codes "M" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston - Individual	89	<b>W470AP</b> * Std-30-40-60	VIN Codes "M" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	88	<b>W470NP</b> Std-30-40-60	VIN Codes "C" & "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.
6	Cast Piston - Individual	88	<b>W470AP</b> * Std-30-40-60	VIN Codes "C" & "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	87-79	<b>W470NP</b> Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.

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## 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 14

L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90 (cont.)

QTY	PISTON (cont.)		YEARS	PART NO.	DESCRIPTION
	6	Cast Piston - Individual	87-79	<b>W470AP</b> * Std-30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9313" Pin Dia., "D" Shaped Recessed Head .178" deep
6	Cast Piston - Individual	79-78	<b>W456NP</b> * Std Only	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep	
6	Cast Piston - Individual	79-78	<b>W456P</b> Std-40-60	8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep	
6	Cast Piston - Individual	77	<b>W456NP</b> * Std Only	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.580" CD, .9313" Pin Dia., "D" Shaped Recessed Head .126" deep	
6	Cast Piston - Individual	77	<b>W456P</b> Std-40-60	Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.3:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .126" deep	
6	Cast Piston - Individual	77	<b>W409P</b> Std-20-30-40-60	Exc. Engs. w/water temp. sending unit located at top left corner at rear of cyl. head; 8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.	
6	Cast Piston - Individual	76-71	<b>W409P</b> Std-20-30-40-60	8.0:1 C.R.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .108" deep x 3.125" dia.	
1	Cast Piston Set w/Prem. Rings	90	<b>6K470NP30</b> 30-40-60	VIN Code "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.	
1	Cast Piston Set w/Prem. Rings	89	<b>6K470NP30</b> 30-40-60	VIN Codes "M" & "T"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.	
1	Cast Piston Set w/Prem. Rings	88	<b>6K470NP30</b> 30-40-60	VIN Codes "C" & "M"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.	
1	Cast Piston Set w/Prem. Rings	87-79	<b>6K470NP30</b> 30-40-60	VIN Code "C"; Cast; 2-5/64", 1-3/16" Ring Groove, 1.633" CD, .9310" Pin Dia., Recessed Head .178" deep - 8.2:1 C.R.	
QTY	RINGS		YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-71	<b>E-222K</b> Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	90-71	<b>E-222X</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Premium Single Cylinder Set	90-71	<b>WE-222K</b> Std-20-30-40-60	2-5/64, 1-3/16	
6	Standard Single Cylinder Set	90-71	<b>WE-222X</b> Std-20-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE		YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	90-71	<b>SL-19M</b> Std Only	3/32" wall, must be cut to correct length	
QTY	ENGINE BEARINGS		YEARS	PART NO.	DESCRIPTION
1	Main Set	90-71	<b>4289M</b> Std-10-20-30-40-60		
1	Rod Set	90-71	<b>6-3310CPA</b> Std-1-10-20-30-40-50-60		
6	Rod Pair	90-71	<b>3310CPA</b> Std-1-2-10-20-30-40-50-60		
1	Cam Set	90-71	<b>1244M</b> Std-10		
QTY	OIL PUMP		YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-81	<b>224-43396S</b>	Incl. screen	
1	Oil Pump	90-81	<b>224-41198</b>	Replaces pump w/cover having tab & slotted hole	
1	Oil Pump	82-75	<b>224-43428</b>	Incl. pump & screen	
1	Oil Pump	82-71	<b>224-41199</b>	DJ "Postal"; Replaces pump w/o cover having tab & slotted hole	
1	Oil Pump	74-73	<b>224-43428</b>	DJ-5; Exc. Postal Vehicles; Incl. pump & screen	
1	Oil Pump	74-73	<b>224-43428</b>	Exc. DJ-5; Incl. pump & screen	
1	Oil Pump	72-71	<b>224-43428</b>	Incl. pump & screen	
1	Pump Repair Kit	90-81	<b>224-51198</b>	Use w/pump having cover w/tab & slotted hole	
1	Screen Assy.	90-72	<b>224-15056</b>	Exc. DJ "Postal"; Use w/oil pump having cover w/tab & slotted hole	
QTY	GASKETS		YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-86	<b>260-1193</b>	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	85-81	<b>260-1134</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	80-71	<b>260-1007</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS		YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-71	<b>381-8000</b>	Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Engs.	
RE-RING KIT					
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	
90-86	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.		205-860	205-360	
	Re-ring		205-860M	205-360M	
	Re-ring w/Mains				

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# Jeep

## 14 4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 (cont.) L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90

RE-RING KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
85-81	Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-716 205-716M	205-216 205-216M
80-71	Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-610 205-610M	205-110 205-110M
OVERHAUL KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90	Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.	Block	BK-6197	----
90	Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Block w/Pump & Freeze Plugs	BKP-6197	----
90	VIN Code "T"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master	MKP-860C	MKP-360C
90-87	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master w/o Pistons	MK-860C	MK-360C
89	VIN Codes "M" & "T"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.	Block	BK-6197	----
89	VIN Codes "M" & "T"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Block w/Pump & Freeze Plugs	BKP-6197	----
89	VIN Codes "M" & "T"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master	MKP-860C	MKP-360C
88	VIN Codes "C" & "M"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.	Block	BK-6197	----
88	VIN Codes "C" & "M"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Block w/Pump & Freeze Plugs	BKP-6197	----
88	VIN Codes "C" & "M"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master	MKP-860C	MKP-360C
87	VIN Code "C"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master	MKP-860C	MKP-360C
87-86	VIN Code "C"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.	Block	BK-6197	----
87-86	VIN Code "C"; Gskts. for Alum. & Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Block w/Pump & Freeze Plugs	BKP-6197	----
86	Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master w/o Pistons	MK-860A	MK-360A
86	VIN Code "C"; Gskts. for Alum. valve covers incl.; Gskts. for Plastic valve covers incl.; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng.	Master Master w/o Rods & Mains	MKP-860A 505-860A	MKP-360A 505-360A

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<b>4.2L 258 OHV L6, 3.75" Bore (AMC Eng.) 1990-71 14</b>					
<b>L/D Truck VIN Codes "A" 1971-79, "C" 1977-88, "M" 1988-89, "T" 1989-90 (cont.)</b>					
K I T S	<b>OVERHAUL KIT (cont.)</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>MK-716A</b>	<b>MK-216A</b>
	85-81	Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng's.	Master w/o Pistons		
85-81	VIN Code "C"; Premium valve stem seals incl.; Oil pump replaces pump w/cover having tab & slotted hole; Incl. 6, 2" OD brass cup plugs for 4, 5, & 6 plug Eng's.	Master Master w/o Rods & Mains	<b>MKP-716A 505-716A</b>	<b>MKP-216A 505-216A</b>	
<b>5.0L 304 OHV V8, 3.75" Bore (AMC Eng.) 1981-71 15</b>					
<b>L/D Truck VIN Code "H" 1971-81</b>					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	3 Piece Set	81-79	<b>KT3-369S</b>	1/2" wide timing sprocket teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) 222-369, (1) 223-512, (1) 223-515	
1	3 Piece Set	79-71	<b>KT3-349S</b>	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412	
1	Timing Chain	81-79	<b>222-369</b>	1/2" wide; 62 Links	
1	Timing Chain	79-71	<b>222-349</b>	5/8" wide; 62 Links	
1	Crank Sprocket	81-79	<b>223-515</b>	Use w/1/2" wide chain; 23 Teeth	
1	Crank Sprocket	79-71	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth	
1	Cam Sprocket	81-79	<b>223-512</b>	Use w/1/2" wide chain; 46 Teeth	
1	Cam Sprocket	79-71	<b>223-412</b>	Use w/5/8" wide chain; 46 Teeth	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Camshaft	81-79	<b>CS-828 +</b>	When depleted use CS-646	
1	Camshaft	81-71	<b>CS-646</b>		
16	Lifter	81-71	<b>HT-2011</b> Std Only	Hyd.	
16	Lifter, Bulk	81-71	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117	
1	Prelube	81-71	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Cam/Lifter Kit	81-79	<b>KC-828 +</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B; When depleted use KC-646	
1	Cam/Lifter Kit	81-71	<b>KC-646</b>	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B	
1	Cam/Lifter/Timing Kit	81-79	<b>KCT-646A</b>	Hyd.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) CS-646, (16) HT-2011, (1) KT3-369S, (1) 55-403B	
1	Cam/Lifter/Timing Kit	79-71	<b>KCT-646</b>	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B	
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Push Rod	81-71	<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.	
16	Push Rod	81-71	<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.	
16	Push Rod	81-71	<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.	
16	Push Rod	81-71	<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.	
16	Push Rod	81-71	<b>RP-3093</b>	7.7940" O.A.L.	
16	Push Rod, Bulk	81-71	<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.	
16	Push Rod, Bulk	81-71	<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.	
16	Push Rod, Bulk	81-71	<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.	
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Arm Assy.	81-73	<b>R-875</b>	Incl. 2-arms, 2-pivots & 1-bridge	
16	Arm Assy.	72-71	<b>R-853</b>	Incl. arm, ball & nut	
8	Arm Assy., Bulk	81-73	<b>R-875B</b>	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32	
16	Arm	81-73	<b>R-875A</b>		
16	Arm	72-71	<b>R-853A</b>		
16	Bridge	81-73	<b>MR-1840</b>		
16	Pivot	81-73	<b>MR-1909</b>	Incl. 2-pivots & 1-bridge	
16	Pivot	81-73	<b>MR-1839</b>	Pivot only	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exhaust	81	<b>V-2205</b> Std Only	1 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
8	Exhaust	80-73	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
8	Exhaust	72-71	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.	
8	Intake	81	<b>V-2206</b> Std Only	1 groove; Chrome plated stem; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
8	Intake	80-73	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	
8	Intake	72-71	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.	

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## 15 5.0L 304 OHV V8, 3.75" Bore (AMC Eng.) 1981-71

(cont.) L/D Truck VIN Code "H" 1971-81

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
16	Guide	81-71	VG-5062	.3735" ID, 2.3800" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
16	Spring	81-78	VS-743	1.9900" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	81-71	ST-2002	Installation requires valve guide machining; Polyacrylate	
16	Valve Stem Seal	72-71	MV-1771C	Umbrella type; Polyacrylate	
16	Valve Stem Seal Bulk	81-71	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate	
16	Valve Stem Seal Bulk	72-71	MV-1771	Umbrella type; Carton of 100; Polyacrylate	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Exh.	81-71	245-1500-1N Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth	
8	Exh.	81-71	245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth	
8	Int.	81-71	245-1875-1N Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth	
8	Int.	81-71	245-1875-1 Std Only	1.8810" OD, 1.6100" ID, .2485" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
32	Keeper	81	VK-138	1 groove; Square cut key groove	
32	Keeper	81	VK-138R	1 groove; Square cut key groove; Hardened	
32	Keeper	80-71	VK-174	4 groove	
32	Keeper	80-71	VK-174R	4 groove; Hardened	
32	Keeper, Bulk	81	VK-138B	1 groove; Square cut key groove; Carton of 1000	
16	Spring Insert	81-71	259-203C	.015"; Carton of 100	
16	Spring Insert	81-71	259-203B	.030"; Carton of 100	
16	Spring Insert	81-71	259-203BRS	.030"; Carton of 500	
16	Spring Insert	81-71	259-203A	.060"; Carton of 100	
16	Spring Insert	81-71	259-203ARS	.060"; Carton of 500	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
8	Cast Piston	81-71	1079P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .130" deep x 3.320" dia. - 8.4:1 C.R.	
8	Cast Piston - Individual	81-71	W1079P Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .130" deep x 3.320" dia. - 8.4:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	81-71	E-240K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	81-71	E-240X Std-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	81-71	WE-240K Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	81-71	WE-240X Std-30-40-60	2-5/64, 1-3/16	
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION	
1	Repair Sleeve	81-71	SL-19M Std Only	3/32" wall, must be cut to correct length	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	81-71	5037M Std-1-10-20-30		
1	Rod Set	81-71	8-3310CPA Std-1-10-20-30-40		
8	Rod Pair	81-71	3310CPA Std-1-2-10-20-30-40-50-60		
1	Cam Set	81-71	1401M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Pump Repair Kit	81-71	224-51285		
1	Screen Assy.	81-71	224-14161		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	81-71	260-1010	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	81-71	260-4008		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	81-71	381-8001		
KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION		205-617	205-117
	81-71	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring		
KITS	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	YEARS	DESCRIPTION		MKP-617A	MKP-117A
	81-79	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives	Master Master w/o Pistons	MK-617A	MK-117A
KITS	81-79	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives	Master Master w/o Pistons	MKP-617C	MKP-117C
				MK-617C	MK-117C



**5.3L 327 OHV V8 (Vigilante), 4" Bore (AMC Eng.) 1968-65 16**  
**L/D Truck VIN Code "E" 1965-70**

<b>VALVE TRAIN</b>		<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Timing Chain	68-65	<b>222-349</b>	5/8" wide; 62 Links
		1	Crank Sprocket	68-65	<b>223-281</b>	Use w/5/8" wide chain; 23 Teeth
		16	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Lifter	68-66	<b>HT-2011</b> Std Only	Hyd.
		16	Lifter, Bulk	68-66	<b>HT-2011B</b> Std Only	Hyd.; Carton of 117
		16	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Push Rod	68-65	<b>RP-3083</b>	8.6870" O.A.L.
		8	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Exhaust	68-65	<b>V-2023</b> Std Only	4 groove; Chrome plated stem; 1.4060" Head Dia., .3720" Stem Dia., 4.8920" O.A.L.
		8	Intake	68-65	<b>V-1981</b> Std Only	4 groove; 1.7870" Head Dia., .3720" Stem Dia., 4.8990" O.A.L.
		16	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Spring	68-65	<b>VS-666</b>	w/damper; 2.2600" Free Height
		16	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Valve Stem Seal	68-65	<b>ST-2011</b>	Positive type; Rubber/PTFE
		16	Valve Stem Seal Bulk	68-65	<b>ST-2011BC</b>	Positive type; Carton of 100; Rubber/PTFE
		8	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Exh.	68-65	<b>245-1500-1N</b> Std Only	Premium Material; 1.5045" OD, 1.2500" ID, .2160" Depth
		8	Exh.	68-65	<b>245-1500-1</b> Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
		8	Int.	68-65	<b>245-1875-1N</b> Std Only	Premium Material; 1.8810" OD, 1.6100" ID, .2485" Depth
		8	Int.	68-65	<b>245-1875-1</b> Std Only	1.8810" OD, 1.6100" ID, .2485" Depth
		32	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		32	Keeper	68-65	<b>VK-174</b>	4 groove
		32	Keeper	68-65	<b>VK-174R</b>	4 groove; Hardened
		16	Spring Insert	68-65	<b>259-203C</b>	.015"; Carton of 100
		16	Spring Insert	68-65	<b>259-203B</b>	.030"; Carton of 100
		16	Spring Insert	68-65	<b>259-203BRS</b>	.030"; Carton of 500
		16	Spring Insert	68-65	<b>259-203A</b>	.060"; Carton of 100
		16	Spring Insert	68-65	<b>259-203ARS</b>	.060"; Carton of 500
		1	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Premium Set	68-65	<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
		1	Premium Set	68-65	<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
		1	Standard Set	68-65	<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
		8	Premium Single Cylinder Set	68-65	<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
		8	Premium Single Cylinder Set	68-65	<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
		8	Standard Single Cylinder Set	68-65	<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
		8	<b>SLEEVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		8	Repair Sleeve	68-65	<b>SL-22Y</b> Std Only	1/8" wall, must be cut to correct length; O.A.L. 10.250"
		8	Repair Sleeve	68-65	<b>SL-22M</b> Std Only	3/32" wall, must be cut to correct length; O.A.L. 10.250"
		1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Main Set	68-65	<b>4010M</b> Std-10-20	
		8	Rod Pair	68-65	<b>2230CP</b> Std-10-20	
		1	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	Pump Repair Kit	68-67	<b>224-51285</b>	
		1	Screen Assy.	68-65	<b>224-14161</b>	

**5.7L 350 OHV V8 (Buick), 3.8" Bore (GMC Eng.) 1971-68 17**  
**L/D Truck VIN Codes "K" 1971, "9" 1969-71**

<b>VALVE TRAIN</b>		<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		1	3 Piece Set	71-68	<b>KT3-359S</b>	Incl. (1) 222-359, (1) 223-323, (1) 223-334
		1	Timing Chain	71-68	<b>222-359</b>	54 Links
		1	Crank Sprocket	71-68	<b>223-323</b>	20 Teeth
		1	Cam Sprocket	71-68	<b>223-334</b>	40 Teeth
		16	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Lifter	71-69	<b>HT-969</b> Std Only	Use w/hollow push rods; Hyd.; w/.440" wide oil groove
		16	Lifter	69-68	<b>HT-896</b> Std Only	Use w/solid push rods; Hyd.
		16	Lifter, Bulk	71-69	<b>HT-969B</b> Std Only	Use w/hollow push rods; Hyd.; Carton of 128
		16	Lifter, Bulk	69-68	<b>HT-896B</b> Std Only	Use w/solid push rods; Hyd.; Carton of 126
		16	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Push Rod	71-70	<b>RP-3214R</b>	Chrome-Moly; 9.6800" O.A.L.
		16	Push Rod	71-70	<b>RP-3180</b>	9.6800" O.A.L.
		16	Push Rod, Bulk	71-70	<b>BRP-3180</b>	Carton of 100; 9.6800" O.A.L.
		16	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
		16	Retainer	71-70	<b>MR-1829</b>	

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## 17 5.7L 350 OHV V8 (Buick), 3.8" Bore (GMC Eng.) 1971-68

(cont.) L/D Truck VIN Codes "K" 1971, "9" 1969-71

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	71-68	VG-5062	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	71-68	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	71-68	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	71-68	245-1625-1N Std Only	Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
8	Exh.	71-68	245-1625-1 Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
8	Int.	71-68	245-2000-1 Std Only	2.0055" OD, 1.7500" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	71-68	VK-97	
16	Spring Insert	71-68	259-201B	.030"; Carton of 100
16	Spring Insert	71-68	259-201A	.060"; Carton of 100
16	Spring Insert	71-68	259-201ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	71-68	657P30 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.800" CD, .9397" Pin Dia., Recessed Head .245" deep x 3.050" dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	71-68	E-288K Std-20-30-40-60	2-5/64, 1-3/16
1	Premium Set	71-68	E-288KC20 20-40	2-5/64, 1-3/16
1	Standard Set	71-68	E-288X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set	71-68	WE-288K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set	71-68	WE-288X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	71-68	4418M Std-10-20-30	
1	Rod Set	71-68	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	71-68	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	71-68	1422M Std Only	w/oil hole
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	71	224-51382	
1	Pump Repair Kit	71-68	224-518	Gear type
1	Pump Repair Kit	71-68	224-518V	High Volume; Installation may require timing cover removal
1	Pump Repair Kit	71-68	224-518TP	Thrust plate kit; Provides new wear surface for scored or worn housing cover; Contains necessary screws, gskts. and instructions
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	71-68	260-1012	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	71-68	260-4012	
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
71-68	Int. manifold gskt. not incl.; Incl. A-Series aluminum bearings; Premium valve stem seals incl.	Re-ring	205-634	205-134
		Re-ring w/Mains	205-634M	205-134M

## 18 5.9L 360 OHV V8, 4.08" Bore (AMC Eng.) 1990-70

L/D Truck VIN Codes "N" 1970-88, "P" 1973-78, "7" 1989-93

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	90-71	KT3-369S	1/2" wide timing sprocket teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) 222-369, (1) 223-512, (1) 223-515
1	3 Piece Set	79-71	KT3-349S	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	90-79	222-369	1/2" wide; 62 Links
1	Timing Chain	79-71	222-349	5/8" wide; 62 Links
1	Crank Sprocket	90-71	223-515	Use w/1/2" wide chain; 23 Teeth
1	Crank Sprocket	79-71	223-281	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	90-79	223-512	Use w/1/2" wide chain; 46 Teeth
1	Cam Sprocket	79-71	223-412	Use w/5/8" wide chain; 46 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-70	CS-646	
16	Lifter	90-70	HT-2011 Std Only	Hyd.
16	Lifter, Bulk	90-70	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	90-70	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-70	KC-646	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-80	KCT-646A	Hyd.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) CS-646, (16) HT-2011, (1) KT3-369S, (1) 55-403B

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**5.9L 360 OHV V8, 4.08" Bore (AMC Eng.) 1990-70 18**  
**L/D Truck VIN Codes "N" 1970-88, "P" 1973-78, "7" 1989-93 (cont.)**

QTY	CAM KIT (cont.)	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter/Timing Kit	79-71	KCT-646A	Hyd.; Incl. timing set w/1/2" wide teeth; Can be used as complete set to replace earlier 5/8" wide timing drives; Incl. (1) CS-646, (16) HT-2011, (1) KT3-369S, (1) 55-403B
1	Cam/Lifter/Timing Kit	79-71	KCT-646	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	90-70	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	90-70	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	90-70	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	90-70	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	90-70	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	90-70	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	90-70	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	90-70	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	90-74	R-875	Incl. 2-arms, 2-pivots & 1-bridge
16	Arm Assy.	73-71	R-853	Incl. arm, ball & nut
8	Arm Assy., Bulk	90-74	R-875B	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32
16	Arm	90-74	R-875A	
16	Arm	73-71	R-853A	
16	Bridge	90-71	MR-1840	
8	Pivot	90-74	MR-1909	Incl. 2-pivots & 1-bridge
16	Pivot	90-74	MR-1839	Pivot only
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-75	V-2024 Std Only	4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74-73	V-2024 Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74-73	V-1980 Std Only	w/Rotators; 1 groove; w/Rotocaps; 1.6800" Head Dia., .3710" Stem Dia., 4.9290" O.A.L.
8	Exhaust	72-70	V-1830 Std Only	1 groove; 1.6250" Head Dia., .3710" Stem Dia., 4.9180" O.A.L.
8	Exhaust, Bulk	90-75	V-2024B Std Only	4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	74-73	V-2024B Std Only	w/o Rotators; 4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Intake	90-73	V-1979 Std Only	4 groove; 2.0260" Head Dia., .3719" Stem Dia., 4.8980" O.A.L.
8	Intake	72-70	V-1831 Std Only	1 groove; 2.0150" Head Dia., .3715" Stem Dia., 4.8990" O.A.L.
8	Intake, Bulk	90-73	V-1979B Std Only	4 groove; Carton of 25; 2.0256" Head Dia., .3719" Stem Dia., 4.8976" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90-70	VG-5062	.3735" ID, 2.3800" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90-78	VS-743	Exh. & Int.; 1.9900" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90-70	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	90-70	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-70	245-1750-3N Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth
8	Exh.	90-70	245-1750-3 Std Only	1.7555" OD, 1.4375" ID, .2160" Depth
8	Int.	90-70	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-75	VK-174	4 groove
32	Keeper	90-75	VK-174R	4 groove; Hardened
32	Keeper	74-73	VK-115	1 groove; Square cut key groove
32	Keeper	74-73	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	74-73	VK-174	4 groove
32	Keeper	74-73	VK-174R	4 groove; Hardened
32	Keeper	72-71	VK-138	1 groove; Square cut key groove
32	Keeper	72-71	VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	74-73	VK-115B	1 groove; Square cut key groove; Carton of 1000
32	Keeper, Bulk	72-71	VK-138B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	90-70	259-203C	.015"; Carton of 100
16	Spring Insert	90-70	259-203B	.030"; Carton of 100
16	Spring Insert	90-70	259-203BRS	.030"; Carton of 500
16	Spring Insert	90-70	259-203A	.060"; Carton of 100

**VALVE TRAIN**

**VALVE TRAIN**

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## 18 5.9L 360 OHV V8, 4.08" Bore (AMC Eng.) 1990-70 (cont.) L/D Truck VIN Codes "N" 1970-88, "P" 1973-78, "7" 1989-93

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
16	Spring Insert	90-70	259-203ARS	.060"; Carton of 500	
<b>B</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Cast Piston	90-71	362NCP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
8	Cast Piston	90-71	362NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs - 9.0:1 C.R.	
8	Cast Piston - Individual	90-71	W362NCP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>	
8	Cast Piston - Individual	90-71	W362NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.581" CD, .9310" Pin Dia., Recessed Head .190" deep x 3.640" dia. w/4 valve reliefs - 9.0:1 C.R.	
<b>B</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	90-70	E-301K Std-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	90-70	E-301X Std-20-30-40-60	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	90-70	WE-301K Std-20-30-40-60	2-5/64, 1-3/16	
8	Standard Single Cylinder Set	90-70	WE-301X Std-20-30-40-60	2-5/64, 1-3/16	
<b>B</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90-70	5037M Std-1-10-20-30		
1	Rod Set	90-70	8-3310CPA Std-1-10-20-30-40		
8	Rod Pair	90-70	3310CPA Std-1-2-10-20-30-40-50-60		
1	Cam Set	90-70	1401M Std Only		
<b>B</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Pump Repair Kit	90-70	224-51285		
1	Screen Assy.	90-70	224-14161		
<b>B</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90-70	260-1151	Int. manifold gskt. not incl.; Premium valve stem seals incl.	
1	Valley Pan Gasket Set	90-70	260-4008		
<b>B</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	90-70	381-8001		
<b>K</b>	<b>RE-RING KIT</b>	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-70	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-715 205-715M	205-215 205-215M
<b>K</b>	<b>OVERHAUL KIT</b>	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-71	Int. manifold gskt. not incl.; Premium valve stem seals incl.	Block	BK-6198	----
	90-71	Int. manifold gskt. not incl.; Premium valve stem seals incl.; Incl. 1/2" wide timing sprocket teeth; Can be used as complete set to replace earlier 5/8" wide timing drives	Master Master w/o Pistons Master w/o Rods & Mains	MKP-715A MK-715A 505-715A	MKP-215A MK-215A 505-215A

## 19 6.6L 401 OHV V8, 4.165" Bore (AMC Eng.) 1978-74 L/D Truck VIN Code "Z" 1974-78

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	78-74	KT3-349S	5/8" wide sprocket teeth; Incl. (1) 222-349, (1) 223-281, (1) 223-412
1	Timing Chain	78-74	222-349	5/8" wide; 62 Links
1	Crank Sprocket	78-74	223-281	Use w/5/8" wide chain; 23 Teeth
1	Cam Sprocket	78-74	223-412	Use w/5/8" wide chain; 46 Teeth
<b>V</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft	78-74	CS-646	
16	Lifter	78-74	HT-2011 Std Only	Hyd.
16	Lifter, Bulk	78-74	HT-2011B Std Only	Hyd.; Carton of 117
1	Prelube	78-74	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>V</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit	78-74	KC-646	Hyd.; Incl. (1) CS-646, (16) HT-2011, (1) 55-403B
1	Cam/Lifter/Timing Kit	78-74	KCT-646	Hyd.; Incl. timing set w/5/8" wide timing teeth; Incl. (1) CS-646, (16) HT-2011, (1) KT3-349S, (1) 55-403B
<b>V</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod	78-74	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	78-74	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	78-74	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.

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**6.6L 401 OHV V8, 4.165" Bore (AMC Eng.) 1978-74 19**  
**L/D Truck VIN Code "Z" 1974-78 (cont.)**

QTY	PUSH ROD (cont.)	YEARS	PART NO.	DESCRIPTION
16	Push Rod	78-74	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	78-74	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	78-74	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	78-74	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	78-74	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.	78-74	R-875	Incl. 2-arms, 2-pivots & 1-bridge
8	Arm Assy., Bulk	78-74	R-875B	Incl. 2-arms, 2-pivots & 1-bridge; Carton of 32
16	Arm	78-74	R-875A	
8	Bridge	78-74	MR-1840	
8	Pivot	78-74	MR-1909	Incl. 2-pivots & 1-bridge
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	78-75	V-2024 Std Only	4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74	V-2024 Std Only	w/o Rotators; 4 groove; Chrome plated stem; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust	74	V-1980 Std Only	w/Rotators; 1 groove; w/Rotocaps; 1.6800" Head Dia., .3710" Stem Dia., 4.9290" O.A.L.
8	Exhaust, Bulk	78-75	V-2024B Std Only	4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Exhaust, Bulk	74	V-2024B Std Only	w/o Rotators; 4 groove; Chrome plated stem; Carton of 25; 1.6800" Head Dia., .3721" Stem Dia., 4.9090" O.A.L.
8	Intake	78-74	V-1979 Std Only	4 groove; 2.0260" Head Dia., .3719" Stem Dia., 4.8980" O.A.L.
8	Intake, Bulk	78-74	V-1979B Std Only	4 groove; Carton of 25; 2.0256" Head Dia., .3719" Stem Dia., 4.8976" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	78-74	VG-5062	Exh. & Int.; .3735" ID, 2.3800" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	78-74	ST-2002	Installation requires valve guide machining; Polyacrylate
16	Valve Stem Seal Bulk	78-74	ST-2002BC	Positive type; Installation requires valve guide machining; Carton of 100; Polyacrylate
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	78-74	245-1750-3N Std Only	Premium Material; 1.7555" OD, 1.4375" ID, .2160" Depth
8	Exh.	78-74	245-1750-3 Std Only	1.7555" OD, 1.4375" ID, .2160" Depth
8	Int.	78-74	245-2125-1 Std Only	2.1305" OD, 1.8125" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	78-75	VK-174	4 groove
32	Keeper	78-75	VK-174R	4 groove; Hardened
32	Keeper	74	VK-115	1 groove; Square cut key groove
32	Keeper	74	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper	74	VK-174	4 groove
32	Keeper	74	VK-174R	4 groove; Hardened
32	Keeper, Bulk	74	VK-115B	1 groove; Square cut key groove; Carton of 1000
16	Spring Insert	78-74	259-203C	.015"; Carton of 100
16	Spring Insert	78-74	259-203B	.030"; Carton of 100
16	Spring Insert	78-74	259-203BRS	.030"; Carton of 500
16	Spring Insert	78-74	259-203A	.060"; Carton of 100
16	Spring Insert	78-74	259-203ARS	.060"; Carton of 500
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston	78-74	415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
8	Cast Piston - Individual	78-74	W415CP Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.488" CD, 1.0007" Pin Dia., Recessed Head .325" deep x 3.530" dia. - 8.5:1 C.R.; DurOshield® skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	78-74	E-302K30 30-40-60	2-5/64, 1-3/16
1	Standard Set	78-74	E-302X Std-30-40	2-5/64, 1-3/16
8	Premium Single Cylinder Set	78-74	WE-302K30 30	2-5/64, 1-3/16
8	Standard Single Cylinder Set	78-74	WE-302X30 30	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	78-74	4950M10 10-20-30	
1	Cam Set	78-74	1401M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	78-74	224-51285	
1	Screen Assy.	78-74	224-14161	

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

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# Jeep

## 19 6.6L 401 OHV V8, 4.165" Bore (AMC Eng.) 1978-74

(cont.) L/D Truck VIN Code "Z" 1974-78

QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	78-74	260-1151	Int. manifold gskt. not incl.; Premium valve stem seals incl.
1	Valley Pan Gasket Set	78-74	260-4008	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	78-74	381-8001	

# Lada

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 1288cc SOHC L4 76mm Bore (8 Valve).....	1990-89	..... 1	1.5L 1499cc SOHC L4 82mm Bore (8 Valve).....	1990-87	..... 3
1.5L 1498cc SOHC L4 86.4mm Bore (8 Valve) (Fiat Eng.) .....	1983-79	..... 2			

## 1 1.3L 1288cc SOHC L4 (8 Valve), 76mm Bore 1990-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-B49624	

## 2 1.5L 1498cc SOHC L4 (8 Valve), 86.4mm Bore (Fiat Eng.) 1983-79

Eng. Codes "138A" 1980-87, "138B" 1978-79

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	83-79	60987AF Std Only	Position 3

## 3 1.5L 1499cc SOHC L4 (8 Valve), 82mm Bore 1990-87

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-87	222-B49624	

# Lincoln Car - See Ford Car Mazda Car

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 1272cc SOHC L4 73mm Bore (8 Valve).....	1978-76	..... 1	2.0L 1998cc SOHC L4 86mm Bore (8 Valve).....	1987-83	..... 11
1.4L 1415cc SOHC L4 77mm Bore (8 Valve).....	1980-79	..... 2	2.0L 1998cc SOHC Diesel L4 86mm Bore (8 Valve).....	1985-84	..... 12
1.5L 1490cc SOHC L4 77mm Bore (8 Valve).....	1986-81	..... 3	2.0L 1998cc SOHC Turbo L4 86mm Bore (8 Valve).....	1987-86	..... 13
1.6L 1586cc SOHC L4 78mm Bore (8 Valve).....	1977-70	..... 4	2.2L 2184cc SOHC L4 86mm Bore (12 Valve).....	1990-88	..... 14
1.6L 1597cc SOHC L4 78mm Bore (8 Valve).....	1990-86	..... 5	2.2L 2184cc SOHC Turbo L4 86mm Bore (12 Valve).....	1990-88	..... 15
1.6L 1597cc DOHC L4 78mm Bore (16 Valve) .....	1990	..... 6	3.0L 2954cc SOHC V6 90mm Bore (18 Valve) .....	1990-88	..... 16
1.6L 1597cc DOHC Turbo L4 78mm Bore (16 Valve).....	1989-88	..... 7	3.0L 2954cc DOHC V6 90mm Bore (24 Valve) .....	1990	..... 17
1.8L 1839cc SOHC L4 83mm Bore (16 Valve).....	1990	..... 8			
1.8L 1839cc DOHC L4 83mm Bore (16 Valve) .....	1990	..... 9			
2.0L 1970cc SOHC L4 80mm Bore (8 Valve).....	1983-79	..... 10			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
BP-ZD.....	1.8L 1839cc SOHC L4 83mm Bore (16 Valve).....	8	F2-T.....	2.2L 2184cc SOHC Turbo L4 86mm Bore (12 Valve).....	15
BP-ZE.....	1.8L 1839cc DOHC L4 83mm Bore (16 Valve).....	9	JE.....	3.0L 2954cc SOHC V6 90mm Bore (18 Valve).....	16
BP-Z3.....	1.8L 1839cc DOHC L4 83mm Bore (16 Valve).....	9	JE-ZE.....	3.0L 2954cc DOHC V6 90mm Bore (24 Valve).....	17
BP-4W.....	1.8L 1839cc DOHC L4 83mm Bore (16 Valve).....	9	JE-06.....	3.0L 2954cc SOHC V6 90mm Bore (18 Valve).....	16
B6.....	1.6L 1597cc SOHC L4 78mm Bore (8 Valve).....	5	JE-07.....	3.0L 2954cc SOHC V6 90mm Bore (18 Valve).....	16
B6-T.....	1.6L 1597cc DOHC Turbo L4 78mm Bore (16 Valve).....	7	JE-27.....	3.0L 2954cc DOHC V6 90mm Bore (24 Valve).....	17
B6-ZE.....	1.6L 1597cc DOHC L4 78mm Bore (16 Valve).....	6	JE-39.....	3.0L 2954cc SOHC V6 90mm Bore (18 Valve).....	16
D5.....	1.5L 1490cc SOHC L4 77mm Bore (8 Valve).....	3	JE-48.....	3.0L 2954cc DOHC V6 90mm Bore (24 Valve).....	17
E5.....	1.5L 1490cc SOHC L4 77mm Bore (8 Valve).....	3	MA.....	2.0L 1970cc SOHC L4 80mm Bore (8 Valve).....	10
FE.....	2.0L 1998cc SOHC L4 86mm Bore (8 Valve).....	11	NA.....	1.6L 1586cc SOHC L4 78mm Bore (8 Valve).....	4
FE-T.....	2.0L 1998cc SOHC Turbo L4 86mm Bore (8 Valve).....	13	RF.....	2.0L 1998cc SOHC Diesel L4 86mm Bore (8 Valve).....	12
FEH1.....	2.0L 1998cc SOHC L4 86mm Bore (8 Valve).....	11	TC.....	1.3L 1272cc SOHC L4 73mm Bore (8 Valve).....	1
FEH5.....	2.0L 1998cc SOHC Turbo L4 86mm Bore (8 Valve).....	13	UC.....	1.4L 1415cc SOHC L4 77mm Bore (8 Valve).....	2
FP-ZE.....	1.8L 1839cc DOHC L4 83mm Bore (16 Valve).....	9	ZM-DE.....	1.6L 1597cc DOHC L4 78mm Bore (16 Valve).....	6
F2.....	2.2L 2184cc SOHC L4 86mm Bore (12 Valve).....	14			

### 1.3L 1272cc SOHC L4 (8 Valve), 73mm Bore 1978-76 1 Eng. Code "TC" 1976-78

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	78-77	222-47CT	
8	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	78-76	VK-208	Exh.
8	Keeper	78-76	VK-207	Int.
4	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	78-76	12200P.75MM .75-1.00MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 37.0mm CD, 20.0mm Pin Dia., Flat Head w/bevel-on-head 90 degrees from pin axis
4	Cast Piston	78-76	12165P1.50MM 1.50MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 38.5mm CD, 20.0mm Pin Dia., Domed Head 1.50mm high x 60.50mm dia.

### 1.4L 1415cc SOHC L4 (8 Valve), 77mm Bore 1980-79 2 Eng. Code "UC" 1979-80

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	80-79	222-47CT	
8	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	80	VG-713	.3183" ID, 1.9900" O.A.L.
8	Guide	79	VG-713	From 6/6/79; .3183" ID, 1.9900" O.A.L.
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	80	ST-2075	Positive type; Rubber
8	Valve Stem Seal	79	ST-2075	From Ser. No. FAUV 528947; Positive type; Rubber
8	Valve Stem Seal	79	ST-2075	From Ser. No. FA4US 572189; Positive type; Rubber
8	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	80-79	VK-208	Exh.
8	Keeper	80-79	VK-207	Int.
4	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	80-79	12204P Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 31.0mm CD, 20.0mm Pin Dia., Recessed Head 1.00mm deep x 60.00mm dia. Chamfer & flat on head 90 degrees from pin axis
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	80-79	E-486KC Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	80-79	E-486X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	80-79	WE-486KC Std Only	2-1.50MM, 1-4.00MM

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# Mazda Car

2 1.4L 1415cc SOHC L4 (8 Valve), 77mm Bore 1980-79 (cont.) Eng. Code "UC" 1979-80					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	80-79	7207M Std-.50MM	.689" O.A.L.	
1	Thrust Washer Set	80-79	3911AF Std Only	Position 5	
1	Rod Set	80-79	4-3910RA Std-.25-.50-.75-1.00MM	A-Series aluminum bearings	
3 1.5L 1490cc SOHC L4 (8 Valve), 77mm Bore 1986-81 Eng. Codes "D5" 1981-86, "E5" 1981-86					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Chain Tensioner	86-81	222-47CT	Eng. Code "D5"	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	85-81	VG-713	.3183" ID, 1.9900" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	85-81	ST-2075	Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
8	Keeper	85-81	VK-208	Exh.	
8	Keeper	85-81	VK-207	Int.	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	85-83	E-754KC Std-.25-.50MM	1-1.50MM, 1-2.00MM, 1-4.00MM
	1	Premium Set	82	E-754KC Std-.25-.50MM	From 1/82; 1-1.50MM, 1-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	85-83	WE-487KC Std-1.00MM	Use w/12205P piston; 1-1.20MM, 1-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	82	WE-487KC Std-1.00MM	To 1/82; Use w/12205P piston; 1-1.20MM, 1-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	81	WE-487KC Std-1.00MM	Use w/12205P piston; 1-1.20MM, 1-1.50MM, 1-4.00MM	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	85-81	7207M Std-.50MM	.689" O.A.L.
	1	Thrust Washer Set	85-81	3911AF Std Only	Position 5
	1	Rod Set	85-81	4-3910RA Std-.25-.50-.75-1.00MM	A-Series aluminum bearings
4 1.6L 1586cc SOHC L4 (8 Valve), 78mm Bore 1977-70 Eng. Code "NA" 1970-77					
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	77-71	V-2265 Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.	
4	Intake	77-71	V-2187 Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
8	Keeper	77-71	VK-208	Exh.	
8	Keeper	77-71	VK-207	Int.	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	4	Pin Bushing	77-72	3569Y	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	77-71	E-350KC Std-.25-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	77-71	E-350X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	77-71	WE-350KC Std-.75MM	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	77-71	WE-350X Std-1.00MM	2-1.50MM, 1-4.00MM	
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	77-70	5027M Std-.25-.50MM	
	1	Thrust Washer Set	77-70	3567AF Std Only	Position 5
	1	Cam Set	77-70	1442M Std Only	
5 1.6L 1597cc SOHC L4 (8 Valve), 78mm Bore 1990-86 Eng. Code "B6" 1986-95					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90	222-B185	Square tooth	
1	Timing Belt	89-87	222-141	Round tooth	
1	Timing Belt	86	222-123	Round tooth	
1	Timing Belt Tensioner	90-86	222-164BT		
1	Timing Belt & Tensioner Set	90	BTS-185	Square tooth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	90-88	CS-841		
1	Camshaft	87-86	CS-840		
16	Lifter	90-86	HT-2254 Std Only	Hyd. lash adj.	
16	Lifter, Bulk	90-86	HT-2254B Std Only	Hyd. lash adj.; Carton of 128	
1	Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	90-88	KC-841	Hyd. lash adj.; Incl. (1) CS-841, (8) HT-2254, (1) 55-403B	

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# Mazda Car

## 1.6L 1597cc SOHC L4 (8 Valve), 78mm Bore 1990-86 **5**

Eng. Code "B6" 1986-95 (cont.)

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
1	Rocker Shaft	90-88	<b>RS-732</b>	Exh.	
1	Rocker Shaft	90-88	<b>RS-731</b>	Int.	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	90-86	<b>V-2590</b> Std Only	1.2600" Head Dia., .2745" Stem Dia., 4.0430" O.A.L.	
4	Intake	90-86	<b>V-2592</b> Std Only	1.4950" Head Dia., .2749" Stem Dia., 4.0860" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	90-86	<b>VG-899</b>	Exh. & Int.; Exc. Calif.; .2750" ID, 1.9700" O.A.L.	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	90-86	<b>ST-2082</b>	Positive type; Rubber	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90	<b>245-1437-66</b> Std Only	1.4445" OD, 1.1200" ID, .3000" Depth	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston	90-86	<b>541P</b> Std-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.230" CD, .7865" Pin Dia., Recessed Head .020" deep x 2.580" dia.
	4	Cast Piston - Individual	90-86	<b>W541P</b> Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.230" CD, .7865" Pin Dia., Recessed Head .020" deep x 2.580" dia.
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90-86	<b>E-551KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	90-86	<b>E-551X</b> Std-.50MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	90-86	<b>WE-551KC</b> Std-.50MM	2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	90-87	<b>7204M</b> Std-.25-.50-.75MM	
	1	Main Set	86	<b>7204M</b> Std-.25-.50-.75MM	From 7/86
1	Main Set	86	<b>7207M</b> Std-.50MM	To 6/86; .689" O.A.L.	
1	Thrust Washer Set	90-86	<b>4176AF</b> Std Only		
1	Rod Set	90-86	<b>4-4175CP</b> Std-.25-.50-.75MM		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	89-86	<b>260-1764</b>	Exh. heat shields not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	

## 1.6L 1597cc DOHC L4 (16 Valve), 78mm Bore 1990 **6**

Eng. Codes "B6-ZE" 1990-96, "ZM-DE" 1999-2003

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90	<b>222-B179</b>		
1	Timing Belt Tensioner	90	<b>222-213BT</b>		
1	Belt Idler	90	<b>222-214BT</b>		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Lifter	90	<b>HT-2276</b> Std Only		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exhaust	90	<b>V-4361</b> Std Only	Chrome plated stem; 1.0310" Head Dia., .2350" Stem Dia., 4.1500" O.A.L.	
8	Intake	90	<b>V-4360</b> Std Only	Chrome plated stem; 1.2200" Head Dia., .2345" Stem Dia., 4.1480" O.A.L.	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90	<b>245-1062-50</b> Std Only	1.0695" OD, .7900" ID, .2540" Depth	
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90	<b>E-551KC</b> Std-.50-.75MM	Miata; 2-1.50MM, 1-4.00MM
	1	Standard Set	90	<b>E-551X</b> Std-.50MM	Miata; 2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	90	<b>WE-551KC</b> Std-.50MM	Miata; 2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90	<b>7204M</b> Std-.25-.50-.75MM		
1	Thrust Washer Set	90	<b>4176AF</b> Std Only		
1	Rod Set	90	<b>4-4175CP</b> Std-.25-.50-.75MM		

## 1.6L 1597cc DOHC Turbo L4 (16 Valve), 78mm Bore 1989-88 **7**

Eng. Code "B6-T" 1988-89

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	89-88	<b>HT-2254</b> Std Only	Hyd. lash adj.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	89-88	<b>V-4361</b> Std Only	Chrome plated stem; 1.0310" Head Dia., .2350" Stem Dia., 4.1500" O.A.L.
8	Intake	89-88	<b>V-4360</b> Std Only	Chrome plated stem; 1.2200" Head Dia., .2345" Stem Dia., 4.1480" O.A.L.

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7 1.6L 1597cc DOHC Turbo L4 (16 Valve), 78mm Bore 1989-88 (cont.) Eng. Code "B6-T" 1988-89				
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	89-88	ST-2079	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	89-88	245-1062-50 Std Only	1.0695" OD, .7900" ID, .2540" Depth
4	Int.	89-88	245-1250-61 Std Only	1.2570" OD, .9760" ID, .1800" Depth
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-88	7204M Std-.25-.50-.75MM	
1	Thrust Washer Set	89-88	4176AF Std Only	
1	Rod Set	89-88	4-4175CP Std-.25-.50-.75MM	
8 1.8L 1839cc SOHC L4 (16 Valve), 83mm Bore 1990 Eng. Code "BP-ZD" 1990-96				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B185	Square tooth
1	Timing Belt Tensioner	90	222-164BT	
1	Timing Belt & Tensioner Set	90	BTS-185	Square tooth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	90	HT-2254 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90	VS-1415	Exh.; 1.7300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2116	Positive type; Silicone
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90	VK-284	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-615KC Std-.50-.75MM	2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	WE-615KC Std Only	2-1.50MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7204M Std-.25-.50-.75MM	
1	Thrust Washer Set	90	4176AF Std Only	
1	Rod Set	90	4-4175CP Std-.25-.50-.75MM	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1855	Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90	381-8104	
9 1.8L 1839cc DOHC L4 (16 Valve), 83mm Bore 1990 Eng. Codes "BP-ZE" 1990-98, "BP-Z3" 2001-2005, "BP-4W" 1999-2000, "FP-ZE" 1999-2001				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B179	
1	Timing Belt Tensioner	90	222-213BT	
1	Belt Idler	90	222-214BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
24	Lifter	90	HT-2276 Std Only	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90	V-4366 Std Only	Chrome plated stem; 1.1030" Head Dia., .2350" Stem Dia., 3.9970" O.A.L.
8	Intake	90	V-4364 Std Only	Chrome plated stem; 1.2980" Head Dia., .2350" Stem Dia., 3.9900" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90	VG-1429T	Exh.; .2370" ID, 1.8080" O.A.L.
8	Guide	90	VG-1428T	Int.; .2370" ID, 1.7750" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90	VS-949	Exh. & Int.; 1.8500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2079	Positive type; Rubber
16	Valve Stem Seal	90	ST-2116	Positive type; Silicone
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90	245-1250-56 Std Only	1.005" ID top taper; 1.2570" OD, .9050" ID, .2300" Depth
8	Int.	90	245-1437-74 Std Only	1.4375" OD, 1.1620" ID, .2300" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90	VK-285	

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1.8L 1839cc DOHC L4 (16 Valve), 83mm Bore 1990 <b>9</b>						
Eng. Codes "BP-ZE" 1990-98, "BP-Z3" 2001-2005, "BP-4W" 1999-2000, "FP-ZE" 1999-2001 (cont.)						
BLOCK	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90	<b>E-615KC</b>	Std-.50-.75MM 2-1.50MM, 1-3.00MM	
	4	Premium Single Cylinder Set	90	<b>WE-615KC</b>	Std Only 2-1.50MM, 1-3.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90	<b>7204M</b>	Std-.25-.50-.75MM		
1	Thrust Washer Set	90	<b>4176AF</b>	Std Only		
1	Rod Set	90	<b>4-4175CP</b>	Std-.25-.50-.75MM		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90	<b>260-1853</b>	Protege; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90	<b>381-8104</b>			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
90	Protege; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.		Re-ring		<b>205-6858</b>	----
			Re-ring w/Mains		<b>205-6858M</b>	----
2.0L 1970cc SOHC L4 (8 Valve), 80mm Bore 1983-79 <b>10</b>						
Eng. Code "MA" 1979-83						
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Chain Tensioner	83	<b>222-47CT</b>	To Ser. No. 614325	
	1	Timing Chain Tensioner	82-79	<b>222-47CT</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	82-79	<b>CS-724</b>		
	1	Prelube	82-79	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Exhaust	82-79	<b>V-2265</b>	Std Only Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.	
	4	Intake	82-79	<b>V-2187</b>	Std Only 1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	82-81	<b>VG-713</b>	.3183" ID, 1.9900" O.A.L.		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	82-79	<b>ST-2075</b>	Positive type; Rubber		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Keeper	82-79	<b>VK-208</b>	Exh.		
8	Keeper	82-79	<b>VK-207</b>	Int.		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Pin Bushing	82-79	<b>3569Y</b>			
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Standard Set	83-82	<b>E-612X</b>	Std Only 1-1.50MM, 1-2.00MM, 1-4.00MM		
1	Standard Set	81-79	<b>E-409X</b>	Std-.75-1.00MM 1-1.20MM, 1-1.50MM, 1-4.00MM		
4	Premium Single Cylinder Set	83-82	<b>WE-612KC</b>	Std-.50MM 1-1.50MM, 1-2.00MM, 1-4.00MM		
4	Premium Single Cylinder Set	81-79	<b>WE-409KC</b>	Std-.50-.75MM 1-1.20MM, 1-1.50MM, 1-4.00MM		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	82-79	<b>5027M</b>	Std-.25-.50MM		
1	Thrust Washer Set	82-79	<b>3567AF</b>	Std Only Position 5		
1	Rod Set	82-79	<b>4-4005P</b>	Std-.25-.50-.75MM		
1	Cam Set	82-79	<b>1442M</b>	Std Only		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	83-79	<b>260-1186</b>	Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	83-79	<b>381-8067</b>			
<b>RE-RING KIT</b>					<b>PREMIUM</b>	<b>ECONOMY</b>
<b>YEARS</b>	<b>DESCRIPTION</b>				<b>KIT NO.</b>	<b>KIT NO.</b>
81-79	Premium valve stem seals incl.		Re-ring		<b>205-856</b>	----
			Re-ring w/Mains		<b>205-856M</b>	----
2.0L 1998cc SOHC L4 (8 Valve), 86mm Bore 1987-83 <b>11</b>						
Eng. Codes "FE" 1983-87, "FEH1" 1983-87						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Timing Belt	87	<b>222-117</b>	Round tooth; 22.0MM wide		
1	Timing Belt	87	<b>222-113</b>	To Ser. No. GC22-800051; Round tooth; 19.0MM wide		
1	Timing Belt	87	<b>222-113</b>	To Ser. No. GC31-800030; Round tooth; 19.0MM wide		
1	Timing Belt	87	<b>222-113</b>	To Ser. No. GC35-800034; Round tooth; 19.0MM wide		

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**11 2.0L 1998cc SOHC L4 (8 Valve), 86mm Bore 1987-83**  
 (cont.) Eng. Codes "FE" 1983-87, "FEH1" 1983-87

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	86	222-117	From Ser. No. GC22-800052; Round tooth; 22.0MM wide
1	Timing Belt	86	222-117	From Ser. No. GC31-800031; Round tooth; 22.0MM wide
1	Timing Belt	86	222-117	From Ser. No. GC35-800035; Round tooth; 22.0MM wide
1	Timing Belt	86	222-113	Round tooth; 19.0MM wide
1	Timing Belt	85	222-113	Round tooth; 19.0MM wide
1	Timing Belt	84	222-113	From 5/84; Round tooth; 19.0MM wide
1	Timing Belt	84	222-88	To 4/84; Square tooth
1	Timing Belt	83	222-88	Square tooth
1	Timing Belt Tensioner	87	222-109BT	To Ser. No. GC22-800051
1	Timing Belt Tensioner	87	222-109BT	To Ser. No. GC31-800030
1	Timing Belt Tensioner	87	222-109BT	To Ser. No. GC35-800034
1	Timing Belt Tensioner	86-83	222-109BT	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Arm	87-83	R-1132	Exh. & Int. 1-3
2	Arm	87-83	R-1131	Exh. & Int. 2-4
1	Rocker Shaft	87-86	RS-738	Int.
1	Rocker Shaft	87-83	RS-744	Exh.
1	Rocker Shaft	87-83	RS-743	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	87-83	V-2345 Std Only	Nitrided stem; 1.4170" Head Dia., .3163" Stem Dia., 4.3970" O.A.L.
4	Intake	87-83	V-2344 Std Only	Nitrided stem; 1.7323" Head Dia., .3165" Stem Dia., 4.4094" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	87-83	VG-713	Exh. & Int.; .3183" ID, 1.9900" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	87-83	VS-849	Inner; 1.7200" Free Height
8	Spring	87-83	VS-848	Outer; 2.0410" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	87-83	ST-2075	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	87-83	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
4	Int.	87-83	245-1812-50 Std Only	1.8195" OD, 1.4900" ID, .3070" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	87-83	VK-208	Exh.
8	Keeper	87-83	VK-207	Int.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	87-83	12306P Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.
4	Cast Piston - Individual	87-83	W12306P Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.
1	Cast Piston Set w/Prem. Rings	87-83	4K12306P.50MM .50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-83	E-542K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	87-83	E-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	87-83	E-542X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	87-83	WE-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-83	6692M Std-.25-.50-.75MM	
1	Rod Set	87-83	4-3975P Std-.25-.50-.75-1.00MM	
1	Cam Set	87-83	1863M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	87-83	224-41994	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87-83	260-1818	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	87-83	381-8100	

# Mazda Car

<b>2.0L 1998cc SOHC Diesel L4 (8 Valve), 86mm Bore 1985-84</b> <b>12</b>						
Eng. Code "RF" 1984-85						
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
	16	Keeper	85-84	<b>VK-207</b>		
<b>B L O C K</b>	1	<b>PISTON</b> Pin Bushing Set	85-84	<b>4-67309Y</b>	<b>DESCRIPTION</b>	
	1	<b>RINGS</b> Premium Set	85-84	<b>E-594KC</b> Std Only	2-2.00MM, 1-4.00MM	
	1	<b>ENGINE BEARINGS</b> Main Set	85-84	<b>6645MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>	
	1		85-84	<b>4-3975P</b> Std-.25-.50-.75-1.00MM		
	1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	85-84	<b>381-8100</b>	<b>DESCRIPTION</b>	
<b>2.0L 1998cc SOHC Turbo L4 (8 Valve), 86mm Bore 1987-86</b> <b>13</b>						
Eng. Codes "FE-T" 1986-87, "FEH5" 1986-87						
	1	<b>TIMING</b> Timing Belt	87-86	<b>222-113</b>	Round tooth; 19.0MM wide	
	1	Timing Belt	87-86	<b>222-117</b>	Round tooth; 22.0MM wide	
	1	Timing Belt Tensioner	87-86	<b>222-109BT</b>	Use w/19.0mm wide belt	
	4	<b>VALVE</b> Exhaust	87-86	<b>V-2345</b> Std Only	Nitrided stem; 1.4170" Head Dia., .3163" Stem Dia., 4.3970" O.A.L.	
	4	Intake	87-86	<b>V-2344</b> Std Only	Nitrided stem; 1.7323" Head Dia., .3165" Stem Dia., 4.4094" O.A.L.	
	8	<b>VALVE GUIDE</b> Guide	87-86	<b>VG-1364</b>	Exh. & Int.; .3173" ID, 2.1770" O.A.L.	
	4	<b>VALVE SEAT</b> Exh.	87-86	<b>245-1500-54</b> Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth 1.8195" OD, 1.4900" ID, .3070" Depth	
	4		87-86	<b>245-1812-50</b> Std Only		
<b>B L O C K</b>	1	<b>RINGS</b> Premium Set	87-86	<b>E-542K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1		87-86	<b>E-542KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4		87-86	<b>WE-542KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	<b>ENGINE BEARINGS</b> Main Set	87-86	<b>6692M</b> Std-.25-.50-.75MM	<b>DESCRIPTION</b>	
	1		87-86	<b>4-3975P</b> Std-.25-.50-.75-1.00MM		
1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	87-86	<b>381-8100</b>	<b>DESCRIPTION</b>		
<b>2.2L 2184cc SOHC L4 (12 Valve), 86mm Bore 1990-88</b> <b>14</b>						
Eng. Code "F2" 1988-92						
	1	<b>TIMING</b> Timing Belt	90-88	<b>222-134</b>		
	1	Timing Belt Tensioner	90-88	<b>222-166BT</b>		
	1	Timing Belt & Tensioner Set	90-88	<b>BTS-134</b>		
	1	Belt Idler	90-88	<b>222-215BT</b>		
<b>V A L V E T R A I N</b>	1	<b>CAMSHAFT/LIFTER</b> Camshaft	90-88	<b>CS-1509</b>		
	12		Lifter	90-88	<b>HT-2254</b> Std Only	Hyd. lash adj.
	12		Lifter, Bulk	90-88	<b>HT-2254B</b> Std Only	Hyd. lash adj.; Carton of 128
	1		Prelube	90-88	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	<b>CAM KIT</b> Cam/Lifter Kit	90-88	<b>KC-1509</b>	Hyd. lash adj.; Incl. (1) CS-1509, (12) HT-2254, (1) 55-403B	
4	<b>VALVE</b> Exhaust	90-88	<b>V-2614</b> Std Only	Chrome plated stem; 1.3390" Head Dia., .2745" Stem Dia., 4.5700" O.A.L.		
4		Intake	90-88	<b>V-2615</b> Std Only	Chrome plated stem; 1.2800" Head Dia., .2747" Stem Dia., 4.5620" O.A.L.	
8	<b>VALVE GUIDE</b> Guide	90-88	<b>VG-927</b>	.2761" ID, 2.0867" O.A.L.		
8		90-88	<b>VG-1376</b>	Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.		
4	<b>VALVE SPRING</b> Spring	90-88	<b>VS-1573</b>	Exh.; 1.9450" Free Height		
8		Spring	90-88	<b>VS-1574</b>	Int.; 1.9220" Free Height	

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## 14 2.2L 2184cc SOHC L4 (12 Valve), 86mm Bore 1990-88 (cont.) Eng. Code "F2" 1988-92

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-88	ST-2082	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-88	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
4	Int.	90-88	245-1812-50 Std Only	1.8195" OD, 1.4900" ID, .3070" Depth
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-542K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-88	E-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-88	E-542X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-88	WE-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	6692M Std-.25-.50-.75MM	
1	Rod Set	90-88	4-3975P Std-.25-.50-.75-1.00MM	
1	Cam Set	90-88	1863M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-88	224-41995	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-88	260-1765	Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8100	
<b>RE-RING KIT</b>			<b>PREMIUM</b>	<b>ECONOMY</b>
YEARS	DESCRIPTION		<b>KIT NO.</b>	<b>KIT NO.</b>
90-88	Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6861	205-1861
		Re-ring w/Mains	205-6861M	205-1861M

## 15 2.2L 2184cc SOHC Turbo L4 (12 Valve), 86mm Bore 1990-88 Eng. Code "F2-T" 1988-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-134	
1	Timing Belt Tensioner	90-88	222-166BT	
1	Timing Belt & Tensioner Set	90-88	BTS-134	
1	Belt Idler	90-88	222-215BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-1509	
12	Lifter	90-88	HT-2254 Std Only	Hyd. lash adj.
12	Lifter, Bulk	90-88	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-1509	Hyd. lash adj.; Incl. (1) CS-1509, (12) HT-2254, (1) 55-403B
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-88	V-4355 Std Only	Chrome plated stem; 1.3390" Head Dia., .2745" Stem Dia., 4.6420" O.A.L.
4	Intake	90-88	V-2615 Std Only	Chrome plated stem; 1.2800" Head Dia., .2747" Stem Dia., 4.5620" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-88	VG-927	.2761" ID, 2.0867" O.A.L.
8	Guide	90-88	VG-1376	Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
4	Spring	90-88	VS-1573	Exh.; 1.9450" Free Height
8	Spring	90-88	VS-1574	Int.; 1.9220" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	90-88	245-1375-56 Std Only	1.3820" OD, 1.1020" ID, .2600" Depth
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-542K Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-88	E-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-88	WE-542KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	6692M Std-.25-.50-.75MM	
1	Rod Set	90-88	4-3975P Std-.25-.50-.75-1.00MM	
1	Cam Set	90-88	1863M Std Only	

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# Mazda Car

## 2.2L 2184cc SOHC Turbo L4 (12 Valve), 86mm Bore 1990-88 **15**

Eng. Code "F2-T" 1988-92 (cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>
	1	Oil Pump	90-88	224-41995		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90-88	260-1765	Turbo mtg. gskts. not incl.; Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-88	381-8100			
<b>RE-RING KIT</b>						
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90-88	Turbo mtg. gskts. not incl.; Exh. heat shields not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6861	----	
		Re-ring w/Mains		205-6861M	----	

## 3.0L 2954cc SOHC V6 (18 Valve), 90mm Bore 1990-88 **16**

Eng. Codes "JE" 1988-91, "JE-06" 1988-89, "JE-07" 1988-89, "JE-39" 1990-91

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
	1	Timing Belt	90-88	222-146		
	1	Timing Belt Tensioner	90-88	222-293BT	Tensioner roller	
	2	Belt Idler	90-88	222-216BT		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Lifter	89-88	HT-2254 Std Only	Hyd. lash adj.	
	12	Lifter, Bulk	89-88	HT-2254B Std Only	Hyd. lash adj.; Carton of 128	
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Rocker Shaft	90-88	RS-752	Exh.	
	1	Rocker Shaft	90-88	RS-751	Int.	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Intake	90-88	V-3912 Std Only	1.2970" Head Dia., .2750" Stem Dia., 4.7780" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
9	Guide	90-88	VG-1433	Exh.; .3180" ID, 2.3600" O.A.L.		
9	Guide	90-88	VG-1432	Int.; .2760" ID, 2.3600" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Spring	90-88	VS-1416	Exh. Inner; 2.0980" Free Height		
6	Spring	90-88	VS-953	Exh. Outer; 2.2700" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Valve Stem Seal	90-88	ST-2075	Exh.; Positive type; Rubber		
12	Valve Stem Seal	90-88	ST-2082	Int.; Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
6	Exh.	90-88	245-1625-62 Std Only	1.6320" OD, 1.3200" ID, .3000" Depth		
6	Int.	90-88	245-1437-66 Std Only	1.4445" OD, 1.1200" ID, .3000" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Keeper	90-88	VK-208	Exh.		
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>	
1	Cast Piston Set w/Prem. Rings	90-88	6K13588CP Std-.50MM	Eng. Code "JE"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.393" CD, 23.0mm Pin Dia., Recessed Head w/3 valve reliefs; Skirt coated piston		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Premium Set	90-88	E-618KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM		
6	Premium Single Cylinder Set	90-88	WE-618KC Std Only	2-1.50MM, 1-4.00MM		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	90-88	7407M Std-.25MM			
1	Thrust Washer Set	90-88	4916F Std Only			
1	Rod Set	90-88	6-1970RA Std Only			
1	Rod Set	90-88	6-4915P Std-.25MM			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90	260-1799	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	89-88	260-1800	Head bolts not incl.; Thermostat O-ring not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-89	381-8106			
<b>RE-RING KIT</b>						
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring		205-6883	----	
		Re-ring w/Mains		205-6883M	----	

# Mazda Car

## 17 3.0L 2954cc DOHC V6 (24 Valve), 90mm Bore 1990 Eng. Codes "JE-ZE" 1990-95, "JE-27" 1990-91, "JE-48" 1992-95

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B183	
1	Timing Belt Tensioner	90	222-295BT	
1	Belt Idler	90	222-297BT	Upper
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
24	Lifter	90	HT-2293 Std Only	Eng. Code "JE-27"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
12	Intake	90	V-3912 Std Only	1.2970" Head Dia., .2750" Stem Dia., 4.7780" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90	ST-2118	Exh. & Int.; O.E. design; Positive type; Viton®
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-618KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90	WE-618KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7407M Std-.25MM	
1	Thrust Washer Set	90	4916F Std Only	
1	Rod Set	90	6-1970RA Std Only	
1	Rod Set	90	6-4915P Std-.25MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90	381-8106	Eng. Codes "JE-27" & "JE-48"

## Mazda Minivans - See Mazda Truck Mazda Truck (Includes Minivans)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.6L 1586cc SOHC L4 78mm Bore (8 Valve) L/D Truck	1976-72	1	2.2L 2209cc OHV Diesel L4 88.9mm Bore (8 Valve) L/D Truck	1984-82	6
1.8L 1796cc SOHC L4 78mm Bore (8 Valve) L/D Truck	1978-77	2	2.6L 2555cc SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck	1988-87	7
2.0L 1970cc SOHC L4 80mm Bore (8 Valve) L/D Truck	1984-79	3	2.6L 2606cc SOHC L4 92mm Bore (12 Valve) L/D Truck	1990-89	8
2.0L 1998cc SOHC L4 86mm Bore (8 Valve) L/D Truck	1987-86	4	3.0L 2954cc SOHC V6 90mm Bore (18 Valve) L/D Truck	1990-89	9
2.2L 2184cc SOHC L4 86mm Bore (8 Valve) L/D Truck	1990-87	5			
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
AM1	2.6L 2555cc SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck	7	JE	3.0L 2954cc SOHC V6 90mm Bore (18 Valve) L/D Truck	9
FE	2.0L 1998cc SOHC L4 86mm Bore (8 Valve) L/D Truck	4	JE-E	3.0L 2954cc SOHC V6 90mm Bore (18 Valve) L/D Truck	9
F2G	2.2L 2184cc SOHC L4 86mm Bore (8 Valve) L/D Truck	5	MA	2.0L 1970cc SOHC L4 80mm Bore (8 Valve) L/D Truck	3
F2L	2.2L 2184cc SOHC L4 86mm Bore (8 Valve) L/D Truck	5	NA	1.6L 1586cc SOHC L4 78mm Bore (8 Valve) L/D Truck	1
G54B	2.6L 2555cc SOHC L4 91.1mm Bore (8 Valve) (Mitsubishi Eng.) L/D Truck	7	S2	2.2L 2209cc OHV Diesel L4 88.9mm Bore (8 Valve) L/D Truck	6
G6	2.6L 2606cc SOHC L4 92mm Bore (12 Valve) L/D Truck	8	VB	1.8L 1796cc SOHC L4 78mm Bore (8 Valve) L/D Truck	2

## 1 1.6L 1586cc SOHC L4 (8 Valve), 78mm Bore 1976-72 L/D Truck Eng. Code "NA" 1972-76

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	76-72	CS-724	Single threaded on nose; When installing CS-724 the spacer provided must be used
1	Prelube	76-72	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	76-72	V-2265 Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.
4	Intake	76-72	V-2187 Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	76-72	VK-208	Exh.

(continued on next page)



## Mazda Truck (Includes Minivans)

1.6L 1586cc SOHC L4 (8 Valve), 78mm Bore 1976-72 <b>1</b>					
L/D Truck Eng. Code "NA" 1972-76 (cont.)					
QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION	
8	Keeper	76-72	VK-207	Int.	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Pin Bushing	76-72	3569Y	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	76-72	E-350KC Std-.25-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	76-72	E-350X Std Only	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	76-72	WE-350KC Std-.75MM	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	76-72	WE-350X Std-1.00MM	2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	76-72	5027M Std-.25-.50MM	
	1	Thrust Washer Set	76-72	3567AF Std Only	Position 5
1	Cam Set	76-72	1442M Std Only		
1.8L 1796cc SOHC L4 (8 Valve), 78mm Bore 1978-77 <b>2</b>					
L/D Truck Eng. Code "VB" 1977-78					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Chain Tensioner	78-77	222-47CT		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Camshaft	78-77	CS-724		
1	Prelube	78-77	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	78-77	V-2265 Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.	
4	Intake	78-77	V-2187 Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Keeper	78-77	VK-208	Exh.	
8	Keeper	78-77	VK-207	Int.	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Pin Bushing	78-77	3569Y	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	78-77	E-350KC Std-.25-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	78-77	E-350X Std Only	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	78-77	WE-350KC Std-.75MM	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	78-77	WE-350X Std-1.00MM	2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	78-77	5027M Std-.25-.50MM	
	1	Thrust Washer Set	78-77	3567AF Std Only	Position 5
1	Rod Set	78-77	4-4005P Std-.25-.50-.75MM		
1	Cam Set	78-77	1442M Std Only		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	78-77	381-8031		
2.0L 1970cc SOHC L4 (8 Valve), 80mm Bore 1984-79 <b>3</b>					
L/D Truck Eng. Code "MA" 1979-84					
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain Tensioner	84-79	222-47CT	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	84-79	CS-724	
	1	Prelube	84-79	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	84-79	V-2265 Std Only	Nitrided stem; 1.3000" Head Dia., .3150" Stem Dia., 4.2100" O.A.L.
	4	Intake	84-79	V-2187 Std Only	1.6560" Head Dia., .3161" Stem Dia., 4.2580" O.A.L.
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	84-80	VG-713	.3183" ID, 1.9900" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	84-81	ST-2075	Positive type; Rubber	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Keeper	84-79	VK-208	Exh.	
8	Keeper	84-79	VK-207	Int.	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Pin Bushing	84-79	3569Y		
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Standard Set	84-82	E-612X Std Only	1-1.50MM, 1-2.00MM, 1-4.00MM	

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# Mazda Truck (Includes Minivans)

<b>3 2.0L 1970cc SOHC L4 (8 Valve), 80mm Bore 1984-79</b> (cont.) L/D Truck Eng. Code "MA" 1979-84																			
<b>BLOCK</b>	<b>QTY</b>	<b>RINGS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Standard Set	81-79	<b>E-409X</b> Std-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-4.00MM														
	4	Premium Single Cylinder Set	84-82	<b>WE-612KC</b> Std-.50MM	1-1.50MM, 1-2.00MM, 1-4.00MM														
	4	Premium Single Cylinder Set	81-79	<b>WE-409KC</b> Std-.50-.75MM	1-1.20MM, 1-1.50MM, 1-4.00MM														
<b>BLOCK</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Main Set	84-79	<b>5027M</b> Std-.25-.50MM	Position 5														
	1	Thrust Washer Set	84-79	<b>3567AF</b> Std Only															
	1	Rod Set	84-79	<b>4-4005P</b> Std-.25-.50-.75MM															
1	Cam Set	84-79	<b>1442M</b> Std Only																
<b>BLOCK</b>	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Kit Gasket Set	84-79	<b>260-1186</b>	Premium valve stem seals incl.														
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Brass Block Plug Kit	84-79	<b>381-8067</b>															
<b>RE-RING KIT</b> <table border="0"> <tr> <td><b>YEARS</b></td> <td><b>DESCRIPTION</b></td> <td></td> <td><b>PREMIUM KIT NO.</b></td> <td><b>ECONOMY KIT NO.</b></td> </tr> <tr> <td>81-79</td> <td>Premium valve stem seals incl.</td> <td>Re-ring</td> <td><b>205-856</b></td> <td>----</td> </tr> <tr> <td></td> <td></td> <td>Re-ring w/Mains</td> <td><b>205-856M</b></td> <td>----</td> </tr> </table>					<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	81-79	Premium valve stem seals incl.	Re-ring	<b>205-856</b>	----			Re-ring w/Mains	<b>205-856M</b>	----
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>															
81-79	Premium valve stem seals incl.	Re-ring	<b>205-856</b>	----															
		Re-ring w/Mains	<b>205-856M</b>	----															
<b>4 2.0L 1998cc SOHC L4 (8 Valve), 86mm Bore 1987-86</b> L/D Truck Eng. Code "FE" 1986-87																			
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Timing Belt	87	<b>222-117</b>	Round tooth; 22.0MM wide														
	1	Timing Belt	87	<b>222-113</b>	To Ser. No. UF11-568706; Round tooth; 19.0MM wide														
	1	Timing Belt	86	<b>222-117</b>	From Ser. No. UF11-568707; Round tooth; 22.0MM wide														
	1	Timing Belt	86	<b>222-113</b>	Round tooth; 19.0MM wide														
	1	Timing Belt Tensioner	87	<b>222-109BT</b>	To Ser. No. UF11-568706														
	1	Timing Belt Tensioner	86	<b>222-109BT</b>															
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Camshaft	87-86	<b>CS-614</b>															
	1	Prelube	87-86	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.														
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	4	Exhaust	87-86	<b>V-2345</b> Std Only	Nitrided stem; 1.4170" Head Dia., .3163" Stem Dia., 4.3970" O.A.L.														
4	Intake	87-86	<b>V-2344</b> Std Only	Nitrided stem; 1.7323" Head Dia., .3165" Stem Dia., 4.4094" O.A.L.															
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>															
8	Guide	87-86	<b>VG-713</b>	Exh. & Int.; .3183" ID, 1.9900" O.A.L.															
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>															
8	Spring	87-86	<b>VS-849</b>	Inner; 1.7200" Free Height															
8	Spring	87-86	<b>VS-848</b>	Outer; 2.0410" Free Height															
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>															
8	Valve Stem Seal	87-86	<b>ST-2075</b>	Positive type; Rubber															
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>															
8	Keeper	87-86	<b>VK-208</b>	Exh.															
8	Keeper	87-86	<b>VK-207</b>	Int.															
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	4	Cast Piston	87-86	<b>12306P</b> Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.														
	4	Cast Piston - Individual	87-86	<b>W12306P</b> Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.														
	1	Cast Piston Set w/Prem. Rings	87-86	<b>4K12306P.50MM</b> .50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.0mm CD, 22.0mm Pin Dia., Recessed Head 2.60mm deep - 8.6:1 C.R.														
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
	1	Premium Set	87-86	<b>E-542K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM														
	1	Premium Set	87-86	<b>E-542KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM														
	1	Standard Set	87-86	<b>E-542X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM														
	4	Premium Single Cylinder Set	87-86	<b>WE-542KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM														
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>														
1	Main Set	87-86	<b>6692M</b> Std-.25-.50-.75MM																
1	Rod Set	87-86	<b>4-3975P</b> Std-.25-.50-.75-1.00MM																
1	Cam Set	87-86	<b>1863M</b> Std Only																

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## Mazda Truck (Includes Minivans)

2.0L 1998cc SOHC L4 (8 Valve), 86mm Bore 1987-86 <b>4</b> L/D Truck Eng. Code "FE" 1986-87 (cont.)					
BLOCK	QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	87-86	224-41994	
	QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	87-86	260-1820	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	87-86	381-8100		
2.2L 2184cc SOHC L4 (8 Valve), 86mm Bore 1990-87 <b>5</b> L/D Truck Eng. Codes "F2G" 1990-93, "F2L" 1987-93					
VALVE TRAIN	QTY	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	90-87	222-134	
	1	Timing Belt Tensioner	90-87	222-166BT	
	1	Timing Belt & Tensioner Set	90-87	BTS-134	
	1	Belt Idler	90-87	222-215BT	
	QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	90-87	CS-1521	Eng. Code "F2L"
	8	Lifter	90-87	HT-2254 Std Only	Hyd. lash adj.
	8	Lifter, Bulk	90-87	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	2	Arm	90-87	R-1129	Exh. & Int. 1-3
	2	Arm	90-87	R-1130	Exh. & Int. 2-4
	1	Rocker Shaft	90-87	RS-742	Exh.
	1	Rocker Shaft	90-87	RS-741	Int.
	QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust	90-87	V-2345 Std Only	Nitrided stem; 1.4170" Head Dia., .3163" Stem Dia., 4.3970" O.A.L.
	4	Intake	90-87	V-2344 Std Only	Nitrided stem; 1.7323" Head Dia., .3165" Stem Dia., 4.4094" O.A.L.
	QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	90	VG-1376	Exh. & Int.; Eng. Code "F2G"; Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.
	8	Guide	90-87	VG-1364	Exh. & Int.; Eng. Code "F2L"; .3173" ID, 2.1770" O.A.L.
	QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Spring	90-87	VS-849	Inner; 1.7200" Free Height
	8	Spring	90-87	VS-848	Outer; Eng. Code "F2L"; 2.0410" Free Height
	QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Valve Stem Seal	90-87	ST-2075	Positive type; Rubber
	QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exh.	90-87	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
4	Int.	90-87	245-1812-50 Std Only	1.8195" OD, 1.4900" ID, .3070" Depth	
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Keeper	90-87	VK-208	Exh.	
8	Keeper	90-87	VK-207	Int.	
BLOCK	QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston	90-87	636P Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.418" CD, .8653" Pin Dia., Recessed Head .218" deep w/3 valve reliefs
	4	Cast Piston - Individual	90-87	W636P Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.418" CD, .8653" Pin Dia., Recessed Head .218" deep w/3 valve reliefs
	1	Cast Piston Set w/Prem. Rings	90-87	4K636P Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.418" CD, 22.0mm Pin Dia., Recessed Head .218" deep w/3 valve reliefs
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90-87	E-542K Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	Premium Set	90-87	E-542KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	Standard Set	90-87	E-542X Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	90-87	WE-542KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-87	6692M Std.-25-.50-.75MM		
1	Rod Set	90-87	4-3975P Std.-25-.50-.75-1.00MM		
1	Cam Set	90-87	1863M Std Only		

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# Mazda Truck (Includes Minivans)

<b>5 2.2L 2184cc SOHC L4 (8 Valve), 86mm Bore 1990-87</b> (cont.) L/D Truck Eng. Codes "F2G" 1990-93, "F2L" 1987-93						
<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump	90-87	224-41995		
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	90	260-1766	Eng. Code "F2G"; Exh. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
	1	Kit Gasket Set	90-87	260-1766	Eng. Code "F2L"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	90-87	381-8100		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	90	Eng. Code "F2G"; Exh. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6880	----
				Re-ring w/Mains	205-6880M	----
	90-87	Eng. Code "F2L"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6880	----
				Re-ring w/Mains	205-6880M	----
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>					
90	Eng. Code "F2G"; Exh. manifold gskt. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Block w/Pump & Freeze Plugs	BKP-6290	----	
			Block	BK-6290	----	
90-87	Eng. Code "F2L"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Block w/Pump & Freeze Plugs	BKP-6290	----	
			Block	BK-6290	----	
<b>6 2.2L 2209cc OHV Diesel L4 (8 Valve), 88.9mm Bore 1984-82</b> L/D Truck Eng. Code "S2" 1982-84						
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	84-82	6644M Std-.25MM			
1	Thrust Washer Set	84-82	3971AF Std Only	Position 3		
1	Rod Set	84-82	4-3970CP Std-.25MM			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	84-83	381-8100			
<b>7 2.6L 2555cc SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1988-87</b> L/D Truck Eng. Codes "AM1" 1987-88, "G54B" 1987-88						
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Complete Set	88-87	KT-1013S	Incl. sprockets, chain, tensioner & guides		
1	Bal. Shaft Set	88-87	KT-1014S	Incl. sprockets, chain & guides		
1	Timing Chain	88-87	222-3DR102	Double rlr.; 102 Links		
1	Timing Chain Tensioner	88-87	222-49CT			
1	Timing Chain Guide	88-87	222-31GP	Slack Side		
1	Timing Chain Guide	88-87	222-30GP	Tension Side		
1	Bal. Shaft Chain Guide	88-87	222-64GP	R.H.		
1	Bal. Shaft Chain Guide	88-87	222-51GP	R.H. Lower		
1	Crank Sprocket	88-87	223-407	Outer; Single row; 34 Teeth		
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Camshaft	88-87	CS-810			
8	Lifter	88-87	HT-6000 Std Only	Hyd. lash adj.		
8	Lifter, Bulk	88-87	HT-6000B Std Only	Hyd. lash adj.; Carton of 128		
1	Prelube	88-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Arm	88-87	R-958	Exh.		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exhaust	88-87	V-2313 Std Only	Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.		
4	Intake	88-87	V-2312 Std Only	1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Guide	88-87	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.		
4	Guide	88-87	VG-715	Int.; .3155" ID, 1.8500" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	88-87	VS-1461	Exh. & Int.; 1.9600" Free Height		
8	Spring, Bulk	88-87	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	88-87	ST-2083	Exh. & Int.; Positive type; Rubber		

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## Mazda Truck (Includes Minivans)

**2.6L 2555cc SOHC L4 (8 Valve), 91.1mm Bore (Mitsubishi Eng.) 1988-87 7**  
**L/D Truck Eng. Codes "AM1" 1987-88, "G54B" 1987-88 (cont.)**

QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	88-87	<b>245-1875-51</b> Std Only	1.8820" OD, 1.5750" ID, .3170" Depth	
16	VALVE, MISC Keeper	88-87	<b>PART NO. VK-232</b>	DESCRIPTION	
4	PISTON Cast Piston	88-87	<b>PART NO. H605P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Flat Head	
4	Cast Piston - Individual	88-87	<b>WH605P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Flat Head	
1	RINGS Premium Set	88-87	<b>PART NO. E-439KC</b> Std.-50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM	
1	Standard Set	88-87	<b>E-439X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	88-87	<b>WE-439KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	ENGINE BEARINGS Main Set	88-87	<b>PART NO. 6618M</b> Std.-25-.50-.75MM	DESCRIPTION	
1	Rod Set	88-87	<b>4-66675P</b> Std.-25-.50-.75-1.00MM		
1	Cam Set	88-87	<b>1858M</b> Std Only		
1	Aux. Shaft Set	88-87	<b>1805M</b>		Rear bal. shaft; Aux. shaft
1	OIL PUMP Oil Pump	88-87	<b>PART NO. 224-41914</b>	DESCRIPTION	
1	GASKETS Kit Gasket Set	88-87	<b>PART NO. 260-1155</b>	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	88-87	<b>260-2513</b>	Replacement recommended	
1	FREEZE PLUGS Brass Block Plug Kit	88-87	<b>PART NO. 381-8098</b>	DESCRIPTION	
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
88-87	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	<b>205-750</b>	<b>205-250</b>
			Re-ring w/Mains	<b>205-750M</b>	<b>205-250M</b>

**2.6L 2606cc SOHC L4 (12 Valve), 92mm Bore 1990-89 8**  
**L/D Truck Eng. Code "G6" 1989-94**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	90-89	<b>222-S102T3X</b>	Single rlr.; 102 Links
1	Timing Chain Tensioner	90-89	<b>222-168CT</b>	
1	Timing Chain Guide	90-89	<b>222-169GP</b>	L.H.
1	Timing Chain Guide	90-89	<b>222-170GP</b>	R.H.
1	Bal. Shaft Chain	90-89	<b>222-3SR84T4</b>	Single rlr.; 84 Links
1	Bal. Shaft Chain Guide	90-89	<b>222-172GP</b>	L.H.
1	Bal. Shaft Chain Guide	90-89	<b>222-171GP</b>	R.H.
1	Bal. Shaft Chain Guide	90-89	<b>222-173GP</b>	Upper
8	CAMSHAFT/LIFTER Lifter	90-89	<b>PART NO. HT-2254</b> Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-89	<b>HT-2254B</b> Std Only	Hyd. lash adj.; Carton of 128
4	VALVE Exhaust	90-89	<b>PART NO. V-2579</b> Std Only	DESCRIPTION
4	Intake	90-89	<b>V-3913</b> Std Only	Chrome plated stem; 1.4134" Head Dia., .2750" Stem Dia., 4.4862" O.A.L. 1.3110" Head Dia., .2750" Stem Dia., 4.4290" O.A.L.
8	VALVE GUIDE Guide	90-89	<b>PART NO. VG-1376</b>	DESCRIPTION
				Exh. & Int.; Incl. lock ring; Threaded; .2765" ID, 2.0880" O.A.L.
8	VALVE SPRING Spring	90-89	<b>PART NO. VS-950</b>	DESCRIPTION
				1.9800" Free Height
8	VALVE SEAL Valve Stem Seal	90-89	<b>PART NO. ST-2082</b>	DESCRIPTION
				Positive type; Rubber
1	RINGS Premium Set	90-89	<b>PART NO. E-510K</b> Std.-50-.75-1.00MM	DESCRIPTION
1	Premium Set	90-89	<b>E-510KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-89	<b>E-510X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-89	<b>WE-510KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-89	<b>WE-510K1.00MM</b> 1.00MM	2-1.50MM, 1-4.00MM

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# Mazda Truck (Includes Minivans)

8 2.6L 2606cc SOHC L4 (12 Valve), 92mm Bore 1990-89 (cont.) L/D Truck Eng. Code "G6" 1989-94				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	7212M Std-.25MM	
1	Rod Set	90-89	4-4200RA Std-.25MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Pump Repair Kit	90-89	224-53579	
9 3.0L 2954cc SOHC V6 (18 Valve), 90mm Bore 1990-89 L/D Truck Eng. Codes "JE" 1989-93, "JE-E" 1994-1999				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-146	
1	Timing Belt Tensioner	90-89	222-293BT	Tensioner roller
2	Belt Idler	90-89	222-216BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	90-89	HT-2254 Std Only	Hyd. lash adj.
12	Lifter, Bulk	90-89	HT-2254B Std Only	Hyd. lash adj.; Carton of 128
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
1	Rocker Shaft	90-89	RS-752	Exh.
1	Rocker Shaft	90-89	RS-751	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Intake	90-89	V-3912 Std Only	1.2970" Head Dia., .2750" Stem Dia., 4.7780" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
9	Guide	90-89	VG-1433	Exh.; .3180" ID, 2.3600" O.A.L.
9	Guide	90-89	VG-1432	Int.; .2760" ID, 2.3600" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
6	Spring	90-89	VS-1416	Exh. Inner; 2.0980" Free Height
6	Spring	90-89	VS-953	Exh. Outer; 2.2700" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90-89	ST-2075	Exh.; Positive type; Rubber
6	Valve Stem Seal	90-89	ST-2082	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-89	245-1625-62 Std Only	1.6320" OD, 1.3200" ID, .3000" Depth
6	Int.	90-89	245-1437-66 Std Only	1.4445" OD, 1.1200" ID, .3000" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-89	VK-208	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Cast Piston Set w/Prem. Rings	90-89	6K13588CP Std-.50MM	Eng. Code "JE"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.393" CD, 23.0mm Pin Dia., Recessed Head w/3 valve reliefs; Skirt coated piston
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	E-618KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-89	WE-618KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	7407M Std-.25MM	
1	Thrust Washer Set	90-89	4916F Std Only	
1	Rod Set	90-89	6-1970RA Std Only	
1	Rod Set	90-89	6-4915P Std-.25MM	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-89	260-1799	Head bolts not incl.; Thermostat O-ring not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-89	381-8106	
RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION			
90-89	Head bolts not incl.; Thermostat O-ring not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		Re-ring	205-6883
			Re-ring w/Mains	205-6883M

VALVE TRAIN

VALVE TRAIN

BLOCK

BLOCK

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.2L 2197cc SOHC L4 87mm Bore (8 Valve).....	1973-68	1	3.0L 2998cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	1985-83	9
2.3L 2298cc SOHC L4 95.5mm Bore (8 Valve).....	1988-84	2	3.0L 3005cc SOHC Diesel L5 91mm Bore (10 Valve).....	1981-75	10
2.4L 2404cc SOHC Diesel L4 91mm Bore (8 Valve).....	1983-74	3	3.0L 3005cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	1982-78	11
2.5L 2497cc SOHC Diesel L5 87mm Bore (10 Valve).....	1989-86	4	3.5L 3449cc SOHC Diesel L6 89mm Bore (12 Valve).....	1990	12
2.5L 2497cc SOHC Turbo-Diesel L5 87mm Bore (10 Valve).....	1987	5	3.8L 3839cc SOHC V8 88mm Bore (16 Valve).....	1985-81	13
2.6L 2599cc SOHC L6 82.9mm Bore (12 Valve).....	1990-87	6			
3.0L 2962cc SOHC L6 88.5mm Bore (12 Valve).....	1990-86	7			
3.0L 2996cc SOHC Turbo-Diesel L6 87mm Bore (12 Valve).....	1987-86	8			

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
OM602.....	2.5L 2497cc SOHC Diesel L5 87mm Bore (10 Valve).....	4	116.960/116.961/ 116.962/116.963....	3.8L 3839cc SOHC V8 88mm Bore (16 Valve).....	13
OM603.....	3.0L 2996cc SOHC Turbo-Diesel L6 87mm Bore (12 Valve).....	8	603.961 .....	3.0L 2996cc SOHC Turbo-Diesel L6 87mm Bore (12 Valve).....	8
OM617.....	3.0L 2998cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	9	616.912 .....	2.4L 2404cc SOHC Diesel L4 91mm Bore (8 Valve).....	3
102.961 .....	2.3L 2298cc SOHC L4 95.5mm Bore (8 Valve).....	2	616.916 .....	2.4L 2404cc SOHC Diesel L4 91mm Bore (8 Valve).....	3
102.985 .....	2.3L 2298cc SOHC L4 95.5mm Bore (8 Valve).....	2	617.910 .....	3.0L 3005cc SOHC Diesel L5 91mm Bore (10 Valve).....	10
103.940 .....	2.6L 2599cc SOHC L6 82.9mm Bore (12 Valve).....	6	617.912 .....	3.0L 3005cc SOHC Diesel L5 91mm Bore (10 Valve).....	10
103.942 .....	2.6L 2599cc SOHC L6 82.9mm Bore (12 Valve).....	6	617.912 .....	3.0L 3005cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	11
103.981 .....	3.0L 2962cc SOHC L6 88.5mm Bore (12 Valve).....	7	617.950/617.951/ 617.952.....	3.0L 2998cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	9
103.983 .....	3.0L 2962cc SOHC L6 88.5mm Bore (12 Valve).....	7	617.952 .....	3.0L 3005cc SOHC Turbo-Diesel L5 91mm Bore (10 Valve).....	11
103.985 .....	3.0L 2962cc SOHC L6 88.5mm Bore (12 Valve).....	7			
115.920 .....	2.2L 2197cc SOHC L4 87mm Bore (8 Valve).....	1			

<b>2.2L 2197cc SOHC L4 (8 Valve), 87mm Bore 1973-68</b>					<b>1</b>
Eng. Code "115.920" 1968-73					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	73-68	<b>66662AF</b> Std Only	Position 3	
<b>2.3L 2298cc SOHC L4 (8 Valve), 95.5mm Bore 1988-84</b>					<b>2</b>
Eng. Codes "102.961" 1984, "102.985" 1984-88 & 1991-93					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	88-84	<b>4561F</b> Std Only		
1	Rod Set	88-84	<b>4-4560P</b> Std-.25MM		
<b>2.4L 2404cc SOHC Diesel L4 (8 Valve), 91mm Bore 1983-74</b>					<b>3</b>
Eng. Codes "616.912" 1977-83, "616.916" 1974-76					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Premium Set	83-74	<b>E-592KC</b> Std Only	1-3.00MM, 1-2.00MM, 1-4.00MM (1 cyl. set)	
<b>2.5L 2497cc SOHC Diesel L5 (10 Valve), 87mm Bore 1989-86</b>					<b>4</b>
Eng. Code "602.911" 1984-89					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	89-86	<b>4561F</b> Std Only		
<b>2.5L 2497cc SOHC Turbo-Diesel L5 (10 Valve), 87mm Bore 1987</b>					<b>5</b>
Eng. Codes "602.961" 1987, "602.962" 1990-93					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	87	<b>4561F</b> Std Only		
<b>2.6L 2599cc SOHC L6 (12 Valve), 82.9mm Bore 1990-87</b>					<b>6</b>
Eng. Codes "103.940" 1987-92, "103.942" 1987-93					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90-87	<b>7314M</b> Std-.25MM		

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# Mercedes

<b>6</b> 2.6L 2599cc SOHC L6 (12 Valve), 82.9mm Bore 1990-87 (cont.) Eng. Codes "103.940" 1987-92, "103.942" 1987-93				
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b> (cont.)				
1	Thrust Washer Set	90-87	4561F Std Only	
1	Rod Set	90-87	6-4560P Std-.25MM	
<b>7</b> 3.0L 2962cc SOHC L6 (12 Valve), 88.5mm Bore 1990-86 Eng. Codes "103.981" 1988-91, "103.983" 1986-93, "103.985" 1990-93				
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Main Set	90-86	7314M Std-.25MM	
1	Thrust Washer Set	90-86	4561F Std Only	
1	Rod Set	90-86	6-4560P Std-.25MM	
<b>8</b> 3.0L 2996cc SOHC Turbo-Diesel L6 (12 Valve), 87mm Bore 1987-86 Eng. Code "603.961" 1986-87				
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Main Set	87-86	7314M Std-.25MM	
1	Thrust Washer Set	87-86	4561F Std Only	
1	Rod Set	87-86	6-4580P Std-.25-.50MM	
<b>9</b> 3.0L 2998cc SOHC Turbo-Diesel L5 (10 Valve), 91mm Bore 1985-83 Eng. Codes "617.951" 1983-85, "617.952" 1983-85				
	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
5	Premium Set	85-83	E-592KC Std Only	1-3.00MM, 1-2.00MM, 1-4.00MM (1 cyl. set)
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Thrust Washer Set	85-83	66662AF Std Only	
1	Rod Set	85-83	5-61980RA Std-.75MM	
<b>10</b> 3.0L 3005cc SOHC Diesel L5 (10 Valve), 91mm Bore 1981-75 Eng. Codes "617.910" 1975-76, "617.912" 1977-81				
	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
5	Premium Set	81-78	E-592KC Std Only	1-3.00MM, 1-2.00MM, 1-4.00MM (1 cyl. set)
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Thrust Washer Set	81-75	66662AF Std Only	Position 3
1	Rod Set	81-75	5-61980RA Std-.75MM	
<b>11</b> 3.0L 3005cc SOHC Turbo-Diesel L5 (10 Valve), 91mm Bore 1982-78 Eng. Codes "617.912" 1979-82, "617.952" 1978-82				
	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
5	Premium Set	82-78	E-592KC Std Only	1-3.00MM, 1-2.00MM, 1-4.00MM (1 cyl. set)
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Thrust Washer Set	82-78	66662AF Std Only	Position 3
1	Rod Set	82-78	5-61980RA Std-.75MM	
<b>12</b> 3.5L 3449cc SOHC Diesel L6 (12 Valve), 89mm Bore 1990				
	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
1	Main Set	90	7314M Std-.25MM	
1	Thrust Washer Set	90	4561F Std Only	
1	Rod Set	90	6-4580P Std-.25-.50MM	
<b>13</b> 3.8L 3839cc SOHC V8 (16 Valve), 88mm Bore 1985-81 Eng. Codes "116.960" 1981-83, "116.961" 1981-83, "116.962" 1982-85, "116.963" 1982-85				
	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
<b>QTY</b>				
8	Guide	85-81	VG-771	Exh.; Std. OD; .3540" ID, 1.9880" O.A.L.

## Mercury - See Ford Car



# Mercury Marine

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.5L 153 OHV L4 3.875" Bore (Chevrolet) (GMC Eng.)		1	5.0L 302 OHV V8 4" Bore (Ford Eng.)		9
3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.)		2	5.0L 305 OHV V8 3.736" Bore (Chevrolet) (GMC Eng.)		10
3.7L 224 OHV L4 4.36" Bore		3	5.3L 327 OHV V8 4" Bore (Chevrolet) (GMC Eng.)	1969-63	11
3.8L 229 OHV V6 3.736" Bore (Chevrolet) (GMC Eng.)		4	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.)		12
3.8L 230 OHV L6 3.875" Bore (Chevrolet) (GMC Eng.)		5	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.)		13
4.1L 250 OHV L6 3.875" Bore (Chevrolet) (GMC Eng.)	1981-67	6	7.0L 427 OHV V8 4.25" Bore (Chevrolet) (GMC Eng.)		14
4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.)		7	7.4L 454 OHV V8 4.25" Bore (Chevrolet) (GMC Eng.)		15
4.6L 283 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.)		8	8.2L 502 OHV V8 4.466" Bore (Performance) (GMC Eng.)		16



# Mercury Marine

**2.5L 153 OHV L4 (Chevrolet), 3.875" Bore (GMC Eng.) 1**  
**Marine Applications Model 120/2.5 Liter (120 HP)**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set		221-2528S	120 HP; From Ser. No. 3253906 to 3331603; From Ser. No. 3331897; Incl. (1) 221-2526, (1) 221-2527
1	Crank Gear		221-2527	120 HP; From Ser. No. 3253906 to 3331603; From Ser. No. 3331897; 27 Teeth
1	Cam Gear		221-2526	120 HP; From Ser. No. 3253906 to 3331603; From Ser. No. 3331897; Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-708	120 HP; From Ser. No. 1666601 & up
8	Lifter		HT-817 Std Only	110 HP; From Ser. No. 1537370 to 1633400 & from Ser. No. 1945392; Hyd.
8	Lifter		HT-817 Std Only	120 HP; From Ser. No. 1666601; Hyd.
8	Lifter, Bulk		HT-817B Std Only	110 HP; From Ser. No. 1537370 to 1633400 & from Ser. No. 1945392; Hyd.; Carton of 128
8	Lifter, Bulk		HT-817B Std Only	120 HP; From Ser. No. 1666601 & from Ser. No. 1945392; Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.		R-832	Incl. arm, ball & nut
8	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
8	Arm		R-832A	
8	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
8	Stud		MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust		V-1888X Std-15	110 HP; 120 HP; To Ser. No. 3377340; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
4	Exhaust		V-1904 Std-3-15-30	120 HP; From Ser. No. 3377341; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
4	Exhaust, Bulk		V-1904B Std-15	120 HP; From Ser. No. 3377341; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
4	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
4	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide		VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
4	Guide		VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
4	Guide		VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
4	Guide		VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		VS-521	110 HP; To Ser. No. 1564733; Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
8	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal		MV-1233C	O-Ring; Rubber
8	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-115	1 groove; Square cut key groove
16	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston		1108P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
4	Cast Piston		1108NP * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# Mercury Marine

## 1 2.5L 153 OHV L4 (Chevrolet), 3.875" Bore (GMC Eng.) (cont.) Marine Applications Model 120/2.5 Liter (120 HP)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
4	Cast Piston - Individual		W1108NP30 * 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
4	Pin		P-2208 Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-450K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-450X Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set		WE-450K Std-20-30-40-60	2-5/64, 1-3/16
4	Standard Single Cylinder Set		WE-450X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4123MA Std-1-10-20-30	A-Series aluminum bearings
1	Rod Set		4-2020CP Std-1-10-20-30-40	
4	Rod Pair		2020CP Std-1-2-10-20-30-40-50	
1	Cam Set		1202M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4147	High Volume, check pan for clearance
1	Oil Pump		224-4157	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1504M	From Ser. No. 1666601 to 6229717; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
1	Kit Gasket Set		260-1505M	From Ser. No. 6229718; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8006	

## 2 3.0L 181 OHV L4 (Chevrolet), 4" Bore (GMC Eng.) Marine Applications Models 140/3.0 Liter, 140/3.0 Liter LX (115 HP); 140/3.0 Liter, 140/3.0 Liter LX (130 HP); 140/3.0 Liter, 140/3.0 Liter LX (135 HP); 140/3.0 Liter, 140/3.0 Liter LX (140 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set		221-2528S	From Ser. No. 2508261 To Ser. No. 2911134; Incl. (1) 221-2526, (1) 221-2527
1	Crank Gear		221-2527	From Ser. No. 2911135; 27 Teeth
1	Cam Gear		221-2526	From Ser. No. 2508261; Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1068M	From Ser. No. 2508261; Hyd. From Ser. No. 2508261; Hyd.; Carton of 128 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
8	Lifter		HT-817 Std Only	
8	Lifter, Bulk		HT-817B Std Only	
1	Prelube		55-400	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1068M	Incl. (1) CS-1068M, (8) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.		R-832	Incl. arm, ball & nut
8	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
8	Arm		R-832A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust		V-4231 Std Only	Chrome plated stem; Swirl Polish; 1.6000" Head Dia., .3407" Stem Dia., 4.9000" O.A.L.
4	Intake		V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
4	Intake, Bulk		V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide		VG-5005	Plain; .3430" ID, 2.2500" O.A.L.
4	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
4	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
4	Guide		VG-5006	Int.; Plain; .3440" ID, 2.3750" O.A.L.
4	Guide		VG-5006T	Int.; Threaded; .3425" ID, 2.3800" O.A.L.
4	Guide		VG-5055T	Int.; Threaded; .3430" ID, 2.3750" O.A.L.
4	Guide, Bulk		VG-5005B	Plain; Carton of 50; .3430" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5006B	Int.; Plain; Carton of 50; .3440" ID, 2.3750" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-115	1 groove; Square cut key groove
16	Keeper		VK-115R	1 groove; Square cut key groove; Hardened

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# Mercury Marine

## 3.0L 181 OHV L4 (Chevrolet), 4" Bore (GMC Eng.) **2**

**Marine Applications** Models 140/3.0 Liter, 140/3.0 Liter LX (115 HP); 140/3.0 Liter, 140/3.0 Liter LX (cont.) (130 HP); 140/3.0 Liter, 140/3.0 Liter LX (135 HP); 140/3.0 Liter, 140/3.0 Liter LX (140 HP)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Keeper, Bulk		<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston		<b>H897CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.610" CD, .9275" Pin Dia., Flat Head
4	Cast Piston		<b>H896CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9279" Pin Dia., Recessed Head .140" deep x 1.610 Radius
4	Cast Piston - Individual		<b>WH897CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.610" CD, .9275" Pin Dia., Flat Head
4	Cast Piston - Individual		<b>WH896CP</b> Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9279" Pin Dia., Recessed Head .140" deep x 1.610 Radius
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set		<b>E-381K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-381X</b> Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set		<b>WE-381K</b> Std-20-30	2-5/64, 1-3/16
4	Standard Single Cylinder Set		<b>WE-381X</b> Std-20-30-40	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set		<b>4123MA</b> Std-1-10-20-30	<b>A-Series aluminum bearings</b>
4	Rod Pair		<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
4	Rod Pair		<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
4	Rod Pair		<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set		<b>1461M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump		<b>224-4147</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set		<b>260-1505M</b>	From Ser. No. 6229718; Exc. LX Eng.s.; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
1	Kit Gasket Set		<b>260-1506M</b>	To Ser. No. 6229717; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit		<b>381-8006</b>	
<b>OVERHAUL KIT</b>				
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b> <b>ECONOMY KIT NO.</b>
	Model 140; To Ser. No. 6229717		Master	<b>MKP-6269A</b> ----
			Master w/o Pistons	<b>MK-6269A</b> ----
	Model 140; From Ser. No. 6229718		Master	<b>MKP-6269C</b> ----
			Master w/o Pistons	<b>MK-6269C</b> ----

## 3.7L 224 OHV L4, 4.36" Bore **3**

**Marine Applications** Models 165; 170; 180; 190; 470; 485; 488

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		<b>CS-1060M</b>	w/o Camshaft driven water pump
8	Lifter		<b>HT-900</b> Std Only	Hyd.
8	Lifter		<b>HT-900R</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
8	Lifter, Bulk		<b>HT-900B</b> Std Only	Hyd.; Carton of 122
1	Prelube		<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Push Rod		<b>RP-3185</b>	8.6480" O.A.L.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust		<b>V-1984</b> Std-15	Chrome plated stem; 1.6530" Head Dia., .3419" Stem Dia., 4.9830" O.A.L.
4	Exhaust, Bulk		<b>V-1984B15</b> 15	Chrome plated stem; Carton of 25; 1.6530" Head Dia., .3569" Stem Dia., 4.9830" O.A.L.
4	Intake		<b>V-3929</b> Std-15	Chrome plated stem; 2.0830" Head Dia., .3419" Stem Dia., 5.1980" O.A.L.
4	Intake, Bulk		<b>V-3929B15</b> 15	Chrome plated stem; Carton of 25; 2.0830" Head Dia., .3569" Stem Dia., 5.1980" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring		<b>VS-718</b>	2.0280" Free Height
8	Spring, Bulk		<b>VS-718B</b>	Carton of 250; 2.0280" Free Height
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper		<b>VK-115</b>	1 groove; Square cut key groove
16	Keeper		<b>VK-115R</b>	1 groove; Square cut key groove; Hardened

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# Mercury Marine

<b>3 3.7L 224 OHV L4, 4.36" Bore</b> (cont.) <b>Marine Applications</b> Models 165; 170; 180; 190; 470; 485; 488				
QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
16	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		7205M Std-10-20	
1	Rod Set		4-4180CP Std-10-20-30	
1	Cam Set		1414M Std Only	Babbitt material; Full round design
<b>4 3.8L 229 OHV V6 (Chevrolet), 3.736" Bore (GMC Eng.)</b> <b>Marine Applications</b> Model 185				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-499S	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
1	Timing Chain		222-499	Use w/.405" tooth width sprocket; 46 Links
1	Crank Sprocket		223-391	Powdered metal; .405" tooth width sprocket; 18 Teeth
1	Cam Sprocket		223-390	.405" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter		HT-817 Std Only	Hyd.
12	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston		698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
6	Cast Piston - Individual		W698P30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-414K Std-30-40	2-5/64, 1-3/16
1	Standard Set		E-414X Std-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set		WE-414K Std-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set		WE-414X Std-30-40	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		5085M Std-1-10-20-30-40	
1	Main Set		6687M10 10-20-30	.020" O/S length flange brg.
1	Rod Set		6-3750P Std-10-20-30-40	
6	Rod Pair		3750P Std-1-10-20-30-40	
1	Cam Set		1463M Std-1	Babbitt material; Full round design
1	Cam Set		1791M Std Only	O.E. split type design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4146A	High Pressure; 5/8" inlet
<b>5 3.8L 230 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.)</b> <b>Marine Applications</b> Models 140 from Ser. No. 1538930 to 1725960 (140 HP); 150 (150 HP)				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Cam Gear		221-2524	From Ser. No. 1666495; Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter		HT-817 Std Only	From Ser. No. 1666495; Hyd.
12	Lifter, Bulk		HT-817B Std Only	From Ser. No. 1666495; Hyd.; Carton of 128
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.		R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm		R-832A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide		VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk		VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber

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# Mercury Marine

## 3.8L 230 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.) 5

Marine Applications Models 140 from Ser. No. 1538930 to 1725960 (140 HP); 150 (150 HP) (cont.)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal		MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-115	1 groove; Square cut key groove
24	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston		1107P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 1107NP
6	Cast Piston		1107NP * Std-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
6	Pin		P-2208 Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-234K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-234X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set		WE-234K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set		WE-234X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4124MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set		6-2020CA60 60	Unplated & resizeable
6	Rod Pair		2020CP Std-1-2-10-20-30-40-50	
1	Cam Set		1203M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4147	
1	Screen Assy.		224-1347	From Ser. No. 1820930 & up

BLOCK

BLOCK

## 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.) 1981-67 6

Marine Applications Models 160 (160 HP); 165 from Ser. No. 2770032 to 6916778 (165 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set		221-2528S	160 & 165 HP; Incl. (1) 221-2526, (1) 221-2527
1	Crank Gear		221-2527	160 & 165 HP; 27 Teeth
1	Cam Gear		221-2524	140 HP; Alum.; 54 Teeth
1	Cam Gear		221-2526	160 & 165 HP; Alum.; 54 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1092M	
12	Lifter		HT-817 Std Only	Hyd.
12	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1092M	Incl. (1) CS-1092M, (12) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.		R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm		R-832A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide		VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.

VALVE TRAIN

VALVE TRAIN

(continued on next page)

# Mercury Marine

## 6 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.) 1981-67

(cont.) Marine Applications Models 160 (160 HP); 165 from Ser. No. 2770032 to 6916778 (165 HP)

VALVE TRAIN		QTY	VALVE GUIDE (cont.)	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN		6	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.	
		6	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.	
		6	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.	
		6	Guide, Bulk		VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.	
		6	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.	
		6	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.	
VALVE TRAIN		QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
		12	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber	
		12	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE	
		12	Valve Stem Seal		MV-1233C	O-Ring; Rubber	
		12	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber	
		12	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
VALVE TRAIN		QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
		6	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth	
		6	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth	
VALVE TRAIN		6	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth	
		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
		24	Keeper		VK-115	1 groove; Square cut key groove	
VALVE TRAIN		24	Keeper		VK-115R	1 groove; Square cut key groove; Hardened	
		24	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000	
		QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
BLOCK		6	Cast Piston		403CP30 30-40-60	160 & 165 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; DurOshield® skirt coated piston	
		6	Cast Piston		403P Std-20-30-40-60-80	160 & 165 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep	
		6	Cast Piston - Individual		W403CP30 30-40-60	160 & 165 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; DurOshield® skirt coated piston	
		6	Cast Piston - Individual		W403P Std-20-30-40-60-80	160 & 165 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep	
		6	Pin		P-2208 Std-3-5-0015		
BLOCK		QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
		1	Premium Set		E-234K Std-20-30-40-60	2-5/64, 1-3/16	
		1	Standard Set		E-234X Std-20-30-40-60	2-5/64, 1-3/16	
		6	Premium Single Cylinder Set		WE-234K Std-20-30-40-60	2-5/64, 1-3/16	
BLOCK		6	Standard Single Cylinder Set		WE-234X Std-20-30-40-60	2-5/64, 1-3/16	
		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
		1	Main Set		4124MA Std-1-10-20-30-40-50-60	A-Series aluminum bearings	
		1	Rod Set		6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable	
BLOCK		1	Rod Set		6-2020CA60 60	Unplated & resizeable	
		6	Rod Pair		2020CP Std-1-2-10-20-30-40-50		
		1	Cam Set	81-71	1557M Std Only		
BLOCK		1	Cam Set	70-67	1203M Std Only		
		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
		1	Oil Pump		224-4147		
BLOCK		1	Screen Assy.		224-1647	From Ser. No. 3777200 to 4331786	
		1	Screen Assy.		224-1347	160 & 165 HP; To Ser. No. 3777199 & from Ser. No. 4331787	
BLOCK		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
		1	Kit Gasket Set		260-1508M	140 HP From Ser. No. 1538930 to 1725960; All 150 & 160 HP; 165 HP From Ser. No. 2770032 to 6916778; 200 HP From Ser. No. 2453769 to 2712072; 16 bolt oil pan gskt. not incl.; Standard Rotation	
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
		1	Brass Block Plug Kit		381-8006		
BLOCK		OVERHAUL KIT				PREMIUM	ECONOMY
		YEARS	DESCRIPTION			KIT NO.	KIT NO.
BLOCK			160 & 165 HP; From Ser. No. 2770032 to 2963667	Master w/o Pistons	MK-6270A	----	
			160 & 165 HP; From Ser. No. 2770032 to 2963667	Master	MKP-6270A	----	
			165 HP; From Ser. No. 2963668	Master	MKP-6270C	----	
				Master w/o Pistons	MK-6270C	----	



# Mercury Marine

## 4.3L 262 OHV V6 (Chevrolet), 4" Bore (GMC Eng.) 7

Marine Applications Models 4.3 Liter, 4.3L (155 HP); 4.3 Liter, 4.3L (175 HP); 4.3LX (175 HP); 4.3LX (180 HP); 4.3LX (205 HP); 175 (175 HP w/2 Bbl.); 185 (185 HP w/2 Bbl.); 205 (205 HP w/4 Bbl.)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1049M	O.E. No. 14095789; Standard Rotation
1	Camshaft		CS-1051M	O.E. No. 14096233; Standard Rotation; Rlr. cam; Use HT-2148 rlr. lifter.
12	Lifter		HT-817 Std Only	Hyd.
12	Lifter		HT-2148 Std Only	Hyd. rlr.
12	Lifter, Bulk		HT-2148B Std Only	Hyd. rlr.; Carton of 128
12	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston		640P Std-20-30-40-60-80	175 & 205 HP; w/4.3LX, 4.3L Gen II, 4.3LX Gen II Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
6	Cast Piston - Individual		W640P Std-20-30-40-60	175 & 205 HP; w/4.3LX, 4.3L Gen II, 4.3LX Gen II Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Prem. Rings		6K640P30 30-40-60	175 & 205 HP; w/4.3LX, 4.3L Gen II, 4.3LX Gen II Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Econ. Rings		6X640P30 30-40-60	175 & 205 HP; w/4.3LX, 4.3L Gen II, 4.3LX Gen II Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-459K Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set		WE-459K Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		5085M Std-1-10-20-30-40	.020" O/S length flange brg.
1	Main Set		6687M10 10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set		5085MA Std-1-10-20-30-40	<b>A-Series aluminum bearings; Use in .020" O/S Bore</b>
1	Main Set		7380MA10X20 10X20	<b>A-Series aluminum bearings; Use in .020" O/S Bore</b>
1	Rod Set		6-1020CP Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
1	Rod Set		6-1020A Std-.026-.25-.50-.75-1.00MM	<b>A-Series aluminum bearings</b>
6	Rod Pair		1020CP Std-.026-.25-.50-.75-1.00MM	
1	Cam Set		1463M Std-1	Exc. Eng.s. w/"T" before the I.D. No. located on front of block; Babbitt material; Full round design
1	Cam Set		1791M Std Only	Exc. Eng.s. w/"T" before the I.D. No. located on front of block; O.E. split type design
1	Ball Brg.		106L	Position Front; Bal. shaft front; Ball brg.
1	Balance Shaft Bearing		3204DR Std Only	Position Rear; Will not replace needle brg. used in early 1992 Eng.s.
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4146A	High Pressure; 5/8" inlet
1	Inter. Shaft		224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide		224-43343	Nylon
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1509M	Standard Rotation; Eng.s. w/o Balance shaft; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.

## 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 8

Marine Applications Model 190 (190 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-163S	Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	Timing Chain		222-163	Double rlr.; 58 Links
1	Crank Sprocket		223-289	Double row; 22 Teeth
1	Cam Sprocket		223-288	Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-274	
16	Lifter		HT-817 Std Only	Hyd.
16	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk		BRP-3093	Carton of 100; 7.7940" O.A.L.

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**8 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.)**  
 (cont.) **Marine Applications Model 190 (190 HP)**

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk		R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm		R-826A	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
8	Guide		VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115	1 groove; Square cut key groove
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		235P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 235NP
8	Cast Piston		235NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual		W235P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W235NP
8	Cast Piston - Individual		W235NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Powerforged		L-2163F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		WL-2163F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-245K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-245X Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-245K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-245X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		994M Std-1-10-20-30-40	
1	Rod Set		8-2020CP Std-1-10-20-30-40	
8	Rod Pair		2020CP Std-1-2-10-20-30-40-50	
1	Cam Set		1145M Std Only	Babbitt material; Full round design
1	Cam Set		1235M Std-1-10	Babbitt material; Full round design
1	Cam Set		1749M Std Only	Bi-Metal Aluminum
1	Cam Set		1750M Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4146	5/8" inlet
1	Inter. Shaft		224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide		224-43343	Nylon

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## 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 8 Marine Applications Model 190 (190 HP) (cont.)

B L O C K	QTY	<b>OIL PUMP</b> (cont.)	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Screen Assy.		224-1346	5/8" inlet tube	
	QTY	<b>GASKETS</b>	YEARS	PART NO.	DESCRIPTION	
	1	Kit Gasket Set		260-1510M	Standard Rotation; Two-piece rear main brg. seal, four-piece oil pan gskt., & rim bolt valve cover gsks. incl.	
	QTY	<b>FREEZE PLUGS</b>	YEARS	PART NO.	DESCRIPTION	
	1	Brass Block Plug Kit		381-8007		
	1	Steel Block Plug Kit		381-4011		
	<b>OVERHAUL KIT</b>					
	YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
		Standard Rotation		Master Master w/o Pistons	MKP-6271A MK-6271A	---- ----

## 5.0L 302 OHV V8, 4" Bore (Ford Eng.) 9 Marine Applications Models 215 (215 HP); 225 (225 HP); 888 (198 HP)

V A L V E  T R A I N	QTY	<b>TIMING</b>	YEARS	PART NO.	DESCRIPTION	V A L V E  T R A I N	
	1	3 Piece Set		KT3-358S	From Ser. No. 3108723; w/1 pc. fuel pump ecc.; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431		
	1	3 Piece Set		KT3-358SA	From Ser. No. 3108723; w/2 pc. fuel pump ecc.; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431		
	1	Timing Chain		222-358	From Ser. No. 3108723; Silent type; 58 Links		
	1	Crank Sprocket		223-431	From Ser. No. 3108723; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth		
	1	Cam Sprocket		223-406	From Ser. No. 3108723; w/1 pc. fuel pump ecc.; 42 Teeth		
	1	Cam Sprocket		223-430	From Ser. No. 3108723; w/2 pc. fuel pump ecc.; Use w/Silent type chain; 42 Teeth		
	QTY	<b>CAMSHAFT/LIFTER</b>	YEARS	PART NO.	DESCRIPTION		
	1	Camshaft		CS-1057M	Reverse Rotation		
	1	Camshaft		CS-674	Standard Rotation; 215 From Ser. No. 2781153 to Ser. No. 3395720; 888 From Ser. No. 3108723; 225 From Ser. No. 3385721 to Ser. No. 4166999		
1	Camshaft		CS-764	Standard Rotation; 225 & 225S			
16	Lifter		HT-900 Std Only	From Ser. No. 3108723; Hyd.			
16	Lifter		HT-900R Std Only	From Ser. No. 3108723; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.			
16	Lifter, Bulk		HT-900B Std Only	From Ser. No. 3108723; Hyd.; Carton of 122			
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.			
QTY	<b>CAM KIT</b>	YEARS	PART NO.	DESCRIPTION			
1	Cam/Lifter Kit		KC-1057M	Reverse Rotation; 225 & 225S; Incl. (1) CS-1057M, (16) HT-900, (1) 55-403B			
1	Cam/Lifter Kit		KC-674	Standard Rotation; 215 & 888 w/351W firing order 1-3-7-2-6-5-4-8; Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B			
1	Cam/Lifter Kit		KC-764	Standard Rotation; 225 & 225S w/351W firing order 1-3-7-2-6-5-4-8; Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B			
QTY	<b>PUSH ROD</b>	YEARS	PART NO.	DESCRIPTION			
16	Push Rod		RP-3166	From Ser. No. 3833160 to 4166999 & from Ser. No. 4615130; Std. length; 8.1420" O.A.L.			
16	Push Rod		RP-3223R	To Ser. No. 3833159 & from Ser. No. 4167000 to 4615129; Chrome-Moly; 6.8850" O.A.L.			
QTY	<b>ROCKER PARTS</b>	YEARS	PART NO.	DESCRIPTION			
16	Arm Assy.		R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut			
16	Arm Assy., Bulk		R-847B	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64			
QTY	<b>VALVE</b>	YEARS	PART NO.	DESCRIPTION			
8	Exhaust		V-2044 Std Only	From Ser. No. 4167000 to 4615129; Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.			
8	Exhaust		V-1893 Std-15	To Ser. No. 4166999; Chrome plated stem; 1.5400" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.			
8	Exhaust, Bulk		V-1893B15 15	To Ser. No. 4166999; Chrome plated stem; Carton of 25; 1.5400" Head Dia., .3565" Stem Dia., 5.0700" O.A.L.			
QTY	<b>VALVE SPRING</b>	YEARS	PART NO.	DESCRIPTION			
8	Spring		VS-919	Exh.; From Ser. No. 4615130; 1.9000" Free Height			
16	Spring		VS-1435	Exh. & Int.; To Ser. No. 4615129; 1.9650" Free Height			
8	Spring		VS-1435	Int.; From Ser. No. 4615130; 1.9650" Free Height			
8	Spring, Bulk		VS-919B	Exh.; From Ser. No. 4615130; Carton of 300; 1.9000" Free Height			

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# Mercury Marine

## 9 5.0L 302 OHV V8, 4" Bore (Ford Eng.)

(cont.) Marine Applications Models 215 (215 HP); 225 (225 HP); 888 (198 HP)

QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
16	Spring, Bulk		VS-1435B	Exh. & Int.; To Ser. No. 4615129; Carton of 250; 1.9650" Free Height
8	Spring, Bulk		VS-1435B	Int.; From Ser. No. 4615130; Carton of 250; 1.9650" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1906	Umbrella type; Nylon
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115	1 groove; Square cut key groove
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual		W272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings		8K272AP20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings		8X272AP20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Powerforged		L-2305F Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		WL-2305F Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		7151M10 10-20-30	.020" O/S length flange brg.
1	Main Set		4125MA Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set		4125M Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set		8-2600A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2600A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set		8-2600CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set		8-2600CP Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set		8-2600CA60 60	Unplated & resizeable
8	Rod Pair		2600CP Std-1-2-10-20-30-40	
8	Rod Pair		2600A Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set		1204M Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-41118	
1	Inter. Shaft		224-61118	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8015	

BLOCK

BLOCK

## 10 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.)

Marine Applications Models 5.0L (180 HP); 5.0L (190 HP); 5.0L (200 HP); 5.0LX (205 HP); 5.0LX (230 HP); 198/898 (198 HP); 200, 200/5.0L (200 HP); 228 (228 HP); 230, 230/5.0L, 230/5.0LX (230 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-163S	Standard Rotation; From Ser. No. 4765100; Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	3 Piece Set		KT3-4SR46	Standard Rotation; From Ser. No. 4765100; Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) 222-4SR46, (1) 223-634, (1) 223-645

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# Mercury Marine

## 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.) 10

**Marine Applications** Models 5.0L (180 HP); 5.0L (190 HP); 5.0L (200 HP); 5.0LX (205 HP); 5.0LX (230 HP); 198/898 (198 HP); 200, 200/5.0L (200 HP); 228 (228 HP); 230, 230/5.0L, 230/5.0LX (230 HP) (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain		222-163	Standard Rotation; From Ser. No. 4765100; Double rlr.; 58 Links
1	Timing Chain		222-4SR46	Standard Rotation; From Ser. No. 4765100; Use w/.280" tooth width sprocket; 46 Links
1	Crank Sprocket		223-645	Standard Rotation; From Ser. No. 4765100; .280" tooth width sprocket; 18 Teeth
1	Crank Sprocket		223-289	Standard Rotation; From Ser. No. 4765100; Double row; 22 Teeth
1	Cam Sprocket		223-288	Standard Rotation; From Ser. No. 4765100; Double row; 44 Teeth
1	Cam Sprocket		223-634	Standard Rotation; From Ser. No. 4765100; Single row; .280" tooth width sprocket; 36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1043M	Standard Rotation
16	Lifter		HT-817 Std Only	From Ser. No. 4765100; Hyd.
16	Lifter, Bulk		HT-817B Std Only	From Ser. No. 4765100; Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1043M	Standard Rotation; Incl. (1) CS-1043M, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk		BRP-3093	Carton of 100; 7.7940" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk		R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm		R-826A	
16	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud		MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1888X Std-15	1st design; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust		V-1904 Std-3-15-30	1st design; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust		V-1988X Std-3-15	2nd design; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Exhaust, Bulk		V-1904B Std-15	1st design; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk		V-1988XB Std-15	2nd design; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.
8	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5046	Exh.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk		VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		VS-727	Exh.; 1st design; Valve guide height is .75"; Incl. damper; 1.9100" Free Height
16	Spring		VS-677	Exh. & Int.; 1st design; Valve guide height is .75"; Incl. damper; 2.0300" Free Height
16	Spring		VS-677	Exh. & Int.; 2nd design; Valve guide height is .84"; Incl. damper; 2.0300" Free Height
8	Spring, Bulk		VS-727B	Exh.; 1st design; Valve guide height is .75"; Incl. damper; Carton of 250; 1.9100" Free Height
16	Spring, Bulk		VS-677B	Exh. & Int.; 1st design; Valve guide height is .75"; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk		VS-677B	Exh. & Int.; 2nd design; Valve guide height is .84"; Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1903	Use w/repair guide; w/.371" stem dia.; Positive type; Rubber
8	Valve Stem Seal		ST-2001	Exh.; Use w/O.E. guide w/.343" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		MV-1233C	O-Ring; Rubber

VALVE TRAIN

VALVE TRAIN

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# Mercury Marine

**10 5.0L 305 OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.)**  
 (cont.) **Marine Applications** Models 5.0L (180 HP); 5.0L (190 HP); 5.0L (200 HP); 5.0LX (205 HP); 5.0LX (230 HP); 198/898 (198 HP); 200, 200/5.0L (200 HP); 228 (228 HP); 230, 230/5.0L, 230/5.0LX (230 HP)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16 8	Valve Stem Seal Bulk Valve Stem Seal Bulk		MV-1233 ST-2001BC	O-Ring; Carton of 100; Rubber Exh.; Use w/O.E. guide w/.371" valve stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8 8 8	Exh. Exh. Int.		245-1562-1N Std Only 245-1562-1 Std Only 245-1812-4 Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth 1.5675" OD, 1.3125" ID, .2160" Depth 1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32 32 32 8	Keeper Keeper Keeper, Bulk Rotocap		VK-115 VK-115R VK-115B RC-157S	1 groove; Square cut key groove 1 groove; Square cut key groove; Hardened 1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		H826CP30 30	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Recessed Head .140" deep x 2.830" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston		536NCP20 20-30-40-60	200/5.0L, 230/5.0LX & 230/5.0L MIE Eng.s.; Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
8	Cast Piston		536NP Std-20-30-40-60	200/5.0L, 230/5.0LX & 230/5.0L MIE Eng.s.; Cast; Use w/E-356K, E-356KC or E-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston		454NP Std-20-30-40-60	200, 228, 230, 898 & 989/198; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual		W536NP Std-20-30-40-60	200/5.0L, 230/5.0LX & 230/5.0L MIE Eng.s.; Cast; Use w/WE-356K or WE-356X ring set; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
8	Cast Piston - Individual		W454NP Std-20-30-40-60	200, 228, 230, 898 & 989/198; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings		8K536NCP20 20-30-40-60	200/5.0L, 230/5.0LX & 230/5.0L MIE Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		8K454NP30 30-40-60	200, 228, 230, 898 & 989/198; Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings		8X536NP20 20-30-40	200/5.0L, 230/5.0LX & 230/5.0L MIE Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .062" deep x 3.130" dia.
1	Cast Piston Set w/Econ. Rings		8X454NP20 20-30-40-60	200, 228, 230, 898 & 989/198; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-356K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		E-356KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-356X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-356K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-356X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4663M Std-1-2-10-20-30-40-60	.020" O/S length flange brg.
1	Main Set		6688M10 10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set		4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set		7329MA10 10-20-30	<b>A-Series aluminum bearings</b> ; w/.020" O/S OD
1	Main Set		7274MA10X20 10X20	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2555A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set		8-2555CP10X2 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set		8-2555CP Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy

BLOCK

BLOCK

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# Mercury Marine

<b>5.0L 305 OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.) 10</b> <b>Marine Applications Models 5.0L (180 HP); 5.0L (190 HP); 5.0L (200 HP); 5.0LX (205 HP); 5.0LX (230 HP); 198/898 (198 HP); 200, 200/5.0L (200 HP); 228 (228 HP); 230, 230/5.0L, 230/5.0LX (230 HP)</b>				
BLOCK	<b>ENGINE BEARINGS</b>			
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1		<b>8-2555CA60</b> 60	Unplated & resizeable
	8		<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8		<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8		<b>2555CA60</b> 60	Unplated & resizeable
	1		<b>1235M</b> Std-1-10	Babbitt material; Full round design
	1		<b>1749M</b> Std Only	Bi-Metal Aluminum
	1		<b>1750M</b> Std Only	2.030" housing bore
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1		<b>224-4146A</b>	High Pressure; 5/8" inlet	
1		<b>224-1146</b>	5/8" inlet	
<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1		<b>381-8059</b>		
<b>5.3L 327 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 1969-63 11</b> <b>Marine Applications Models 225 (225 HP); 250 (250 HP)</b>				
VALVE TRAIN	<b>TIMING</b>			
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1		<b>KT3-163S</b>	Standard Rotation; Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
	1		<b>KT3-4SR46</b>	Standard Rotation; Incl. single rlr. type chain; .280" tooth width sprocket; Incl. (1) 222-4SR46, (1) 223-634, (1) 223-645
	1		<b>222-163</b>	Standard Rotation; Double rlr.; 58 Links
	1		<b>222-4SR46</b>	Standard Rotation; Use w/.280" tooth width sprocket; 46 Links
	1		<b>223-645</b>	Standard Rotation; .280" tooth width sprocket; 18 Teeth
	1		<b>223-289</b>	Standard Rotation; Double row; 22 Teeth
	1		<b>223-288</b>	Standard Rotation; Double row; 44 Teeth
	1		<b>223-634</b>	Standard Rotation; Single row; .280" tooth width sprocket; 36 Teeth
<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1		<b>CS-274</b>	Standard Rotation	
16		<b>HT-817</b> Std Only	Hyd.	
16		<b>HT-817B</b> Std Only	Hyd.; Carton of 128	
1		<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1		<b>KC-274</b>	Standard Rotation; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B	
BLOCK	<b>PISTON</b>			
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8		<b>H951P30</b> 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Recessed Head .065" deep x 3.200" dia. w/2 valve reliefs
	8		<b>WH951P30</b> 30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Recessed Head .065" deep x 3.200" dia. w/2 valve reliefs
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
	1		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
	1		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
	8		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
	8		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16	
<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1		<b>4663M</b> Std-1-2-10-20-30-40-60		
1		<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>	
1		<b>994M</b> Std-1-10-20-30-40		
1		<b>6688M10</b> 10-20-30	.020" O/S length flange brg.	
1		<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.	
1		<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>	
1		<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy	
1		<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy	
1		<b>8-2020CP</b> Std-1-10-20-30-40		

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# Mercury Marine

## 11 5.3L 327 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 1969-63 (cont.) Marine Applications Models 225 (225 HP); 250 (250 HP)

QTY	ENGINE BEARINGS			
	(cont.)	YEARS	PART NO.	DESCRIPTION
1	Rod Set	69-68	8-2555CA60 60	Unplated & resizeable
8	Rod Pair	69-68	2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair	69-68	2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair	67-63	2020CP Std-1-2-10-20-30-40-50	
8	Rod Pair	69-68	2555CA60 60	Unplated & resizeable
1	Cam Set		1235M Std-1-10	Babbitt material; Full round design
1	Cam Set		1749M Std Only	Bi-Metal Aluminum
1	Cam Set		1750M Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4146	5/8" inlet
1	Inter. Shaft		224-6146	Use w/nylon shaft guide
1	Oil Pump Shaft Guide		224-43343	Nylon
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1510M	Standard Rotation; Two-piece rear main brg. seal, four-piece oil pan gskt., & rim bolt valve cover gskts. incl.

## 12 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) Marine Applications Models Black Scorpion (315 HP); 5.7L (230 HP); 5.7L (235 HP); 5.7L (260 HP); 5.7L Blue Water Inboard (250 HP); 5.7L Blue Water Inboard (260 HP); 5.7L Bravo (240 HP); 5.7L Bravo (250 HP); 5.7L Bravo (270 HP); 5.7L Comp Ski (250 HP); 5.7L Comp Ski (260 HP); 255 (255 HP); 260, 260/5.7L (260 HP); 270 (270 HP); 280 (280 HP); 300, 300 MR/TR (300 HP); 350 Magnum, 350 Magnum Tournament Ski (240 HP); 350 Magnum, 350 Magnum Tournament Ski (250 HP); 350 Magnum, 350 Magnum Tournament Ski (265 HP); 350 Magnum, 350 Magnum Tournament Ski (270 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-163S	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	Timing Chain		222-163	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Double rlr.; 58 Links
1	Crank Sprocket		223-289	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Double row; 22 Teeth
1	Cam Sprocket		223-288	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1043M	Standard Rotation; Flat lifter; Exc. 270, 280, 300 & 320EFI
1	Camshaft		CS-274	Standard Rotation; Flat lifter; 270
16	Lifter		HT-2148 Std Only	Hyd. rlr.
16	Lifter		HT-817 Std Only	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Hyd.
16	Lifter, Bulk		HT-2148B Std Only	Hyd. rlr.; Carton of 128
16	Lifter, Bulk		HT-817B Std Only	250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4175500; Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1043M	Standard Rotation; 250 HP From Ser. No. 4768000; 255 HP From Ser. No. 4768000; Incl. (1) CS-1043M, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk		BRP-3093	Carton of 100; 7.7940" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk		R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm		R-826A	
16	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud		MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Intake		V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk		V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.

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# Mercury Marine

## 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 12 (cont.)

**Marine Applications** Models Black Scorpion (315 HP); 5.7L (230 HP); 5.7L (235 HP); 5.7L (260 HP); 5.7L Blue Water Inboard (250 HP); 5.7L Blue Water Inboard (260 HP); 5.7L Bravo (240 HP); 5.7L Bravo (250 HP); 5.7L Bravo (270 HP); 5.7L Comp Ski (250 HP); 5.7L Comp Ski (260 HP); 255 (255 HP); 260, 260/5.7L (260 HP); 270 (270 HP); 280 (280 HP); 300, 300 MR/TR (300 HP); 350 Magnum, 350 Magnum Tournament Ski (240 HP); 350 Magnum, 350 Magnum Tournament Ski (250 HP); 350 Magnum, 350 Magnum Tournament Ski (265 HP); 350 Magnum, 350 Magnum Tournament Ski (270 HP)

VALVE TRAIN	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide		<b>VG-5005</b>	Exh.; .3430" ID, 2.2500" O.A.L.
	8	Guide		<b>VG-5005H</b>	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
	8	Guide		<b>VG-5005T</b>	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
	8	Guide		<b>VG-5046</b>	Int.; .502" OD; .3740" ID, 2.2500" O.A.L.
	8	Guide, Bulk		<b>VG-5005B</b>	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
	8	Guide, Bulk		<b>VG-5005TB</b>	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
VALVE TRAIN	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring		<b>VS-727</b>	Exh.; Incl. damper; 1.9100" Free Height
	8	Spring		<b>VS-677</b>	Int.; Incl. damper; 2.0300" Free Height
	8	Spring, Bulk		<b>VS-727B</b>	Exh.; Incl. damper; Carton of 250; 1.9100" Free Height
	8	Spring, Bulk		<b>VS-677B</b>	Int.; Incl. damper; Carton of 250; 2.0300" Free Height
VALVE TRAIN	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	16	Valve Stem Seal		<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
	16	Valve Stem Seal		<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
	16	Valve Stem Seal		<b>MV-1233C</b>	O-Ring; Rubber
	16	Valve Stem Seal Bulk		<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
	16	Valve Stem Seal Bulk		<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
VALVE TRAIN	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	8	Exh.		<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
	8	Exh.		<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
VALVE TRAIN	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	32	Keeper		<b>VK-115</b>	1 groove; Square cut key groove
	32	Keeper		<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk		<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
	8	Rotocap		<b>RC-157S</b>	
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	8	Cast Piston		<b>345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
	8	Cast Piston		<b>H423NCP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
	8	Cast Piston		<b>H423NP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
	8	Cast Piston		<b>H345NCP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
	8	Cast Piston		<b>H345NP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
	8	Cast Piston		<b>423NP</b> Std-20-30-40-60-80	250, 255, 260, 260 HP w/5.7L, 5.7L Alpha EFI, 5.7L Bravo, 5.7L Bravo EFI, 350 Mag Alpha, 350 Mag Bravo, 260 MIE, 260 HP/5.7L MIE, 5.7L MIE, 5.7L SKI Eng.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
	8	Cast Piston - Individual		<b>W345NP</b> Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
	8	Cast Piston - Individual		<b>WH423NP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
	8	Cast Piston - Individual		<b>WH345NCP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
	8	Cast Piston - Individual		<b>WH345NP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs

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# Mercury Marine

## 12 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.)

(cont.) **Marine Applications** Models Black Scorpion (315 HP); 5.7L (230 HP); 5.7L (235 HP); 5.7L (260 HP); 5.7L Blue Water Inboard (250 HP); 5.7L Blue Water Inboard (260 HP); 5.7L Bravo (240 HP); 5.7L Bravo (250 HP); 5.7L Bravo (270 HP); 5.7L Comp Ski (250 HP); 5.7L Comp Ski (260 HP); 255 (255 HP); 260, 260/5.7L (260 HP); 270 (270 HP); 280 (280 HP); 300, 300 MR/TR (300 HP); 350 Magnum, 350 Magnum Tournament Ski (240 HP); 350 Magnum, 350 Magnum Tournament Ski (250 HP); 350 Magnum, 350 Magnum Tournament Ski (265 HP); 350 Magnum, 350 Magnum Tournament Ski (270 HP)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston - Individual		<b>W423NP</b> Std-20-30-40-60-80	250, 255, 260, 260 HP w/5.7L, 5.7L Alpha EFI, 5.7L Bravo, 5.7L Bravo EFI, 350 Mag Alpha, 350 Mag Bravo, 260 MIE, 260 HP/5.7L MIE, 5.7L MIE, 5.7L SKI Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
1	Cast Piston Set w/Prem. Rings		<b>8KH423NCP30</b> 30-40-60	Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		<b>8KH345NCP30</b> 30-40-60	Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		<b>8KH423NP</b> Std-20-30-40-60	Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .100" deep x 2.750" dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings		<b>8KH345NP30</b> 30-40-60	Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings		<b>8X345NP20</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
1	Cast Piston Set w/Econ. Rings		<b>8X423NP20</b> 20-30-40-60	250, 255, 260, 260 HP w/5.7L, 5.7L Alpha EFI, 5.7L Bravo, 5.7L Bravo EFI, 350 Mag Alpha, 350 Mag Bravo, 260 MIE, 260 HP/5.7L MIE, 5.7L MIE, 5.7L SKI Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .067" deep x 3.160" dia. - 8.4:1 C.R.
8	Powerforged		<b>L-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Powerforged		<b>L-2403NF</b> Std-20-30-40-60	250, 255, 260 & 260 HP w/5.7L, 5.7L Alpha EFI, 5.7L Bravo, 5.7L Bravo EFI, 350 Mag Alpha, 350 Mag Bravo, 260 MIE, 260/5.7L MIE, 5.7L MIE, 5.7L SKI Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2256F</b> Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2403NF</b> Std-20-30-40-60	250, 255, 260 & 260 HP w/5.7L, 5.7L Alpha EFI, 5.7L Bravo, 5.7L Bravo EFI, 350 Mag Alpha, 350 Mag Bravo, 260 MIE, 260/5.7L MIE, 5.7L MIE, 5.7L SKI Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.562" CD, .9275" Pin Dia., Recessed Head .068" deep. <b>DurOshield® skirt coated piston.</b>
1	Forged Piston Set w/Rings		<b>8KL2256F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set		<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set		<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set		<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings; .010" O/S length flange brg.</b>
1	Main Set		<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings; w/.020" O/S OD</b>
1	Rod Set		<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set		<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy

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# Mercury Marine

## 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 12 (cont.)

**Marine Applications** Models Black Scorpion (315 HP); 5.7L (230 HP); 5.7L (235 HP); 5.7L (260 HP); 5.7L Blue Water Inboard (250 HP); 5.7L Blue Water Inboard (260 HP); 5.7L Bravo (240 HP); 5.7L Bravo (250 HP); 5.7L Bravo (270 HP); 5.7L Comp Ski (250 HP); 5.7L Comp Ski (260 HP); 255 (255 HP); 260, 260/5.7L (260 HP); 270 (270 HP); 280 (280 HP); 300, 300 MR/TR (300 HP); 350 Magnum, 350 Magnum Tournament Ski (240 HP); 350 Magnum, 350 Magnum Tournament Ski (250 HP); 350 Magnum, 350 Magnum Tournament Ski (265 HP); 350 Magnum, 350 Magnum Tournament Ski (270 HP)

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Rod Set		8-2555CA60 60	Unplated & resizeable
	8	Rod Pair		2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair		2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8	Rod Pair		2555CA60 60	Unplated & resizeable
	1	Cam Set		1235M Std-1-10	Babbitt material; Full round design
	1	Cam Set		1749M Std Only	Bi-Metal Aluminum
	1	Cam Set		1750M Std Only	2.030" housing bore
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump		224-4146A	High Pressure; 5/8" inlet
	1	Screen Assy.		224-1146	5/8" inlet
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set		260-1517M	Reverse Rotation; One-piece rear main brg. seal, one-piece oil pan gskt. & both rim bolt & center bolt valve cover gskts. incl.
	1	Kit Gasket Set		260-1516M	Standard Rotation; One-piece rear main brg. seal, one-piece oil pan gskt., & both rim bolt & center bolt valve cover gskts. incl.
BLOCK	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit		381-8007	
	1	Steel Block Plug Kit		381-4011	

## 5.8L 351 OHV V8 (Windsor), 4" Bore (Ford Eng.) 13

**Marine Applications** Models 233 from Ser. No. 3258728 to 4175499 (233 HP); 255 from Ser. No. 3258728 to 4175499 (255 HP)

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set		KT3-358SA	From Ser. No. 3258728 to 4175499; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
	1	Timing Chain		222-358	From Ser. No. 3258728 to 4175499; Silent type; 58 Links
	1	Crank Sprocket		223-431	From Ser. No. 3258728 to 4175499; If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
	1	Cam Sprocket		223-430	From Ser. No. 3258728 to 4175499; Use w/Silent type chain; 42 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft		CS-1057M	Reverse Rotation; Firing order 1-8-4-5-6-2-7-3
	1	Camshaft		CS-764	Standard Rotation
	1	Performance Cam		CS-1067R	Standard Rotation; Use 351W firing order 1-3-7-2-6-5-4-8; Pro-2000 Perf. Cam; Hyd.; Duration at .050: 206 Int., 221 Exh.; Valve lift .4440" Int., .4520" Exh.; Lobe Separation 115 Degrees
	16	Lifter		HT-900 Std Only	From Ser. No. 3258728 to 4175499; Hyd.
	16	Lifter		HT-900R Std Only	From Ser. No. 3258728 to 4175499; Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
	16	Lifter, Bulk		HT-900B Std Only	From Ser. No. 3258728 to 4175499; Hyd.; Carton of 122 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	1	Prelube		55-400	
VALVE TRAIN	QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
	1	Cam/Lifter Kit		KC-1057M	Reverse Rotation; Incl. (1) CS-1057M, (16) HT-900, (1) 55-403B
	1	Cam/Lifter Kit		KC-764	Standard Rotation; Hyd.; Incl. (1) CS-764, (16) HT-900, (1) 55-403B
	1	Cam/Lifter Kit		KC-1067R	Standard Rotation; Use 351W firing order 1-3-7-2-6-5-4-8; Pro-2000 Perf. Cam; Incl. (1) CS-1067R, (16) HT-900, (1) 55-403B
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod		RP-3166	Std. length; 8.1420" O.A.L.
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	16	Arm Assy.		R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut

(continued on next page)

# Mercury Marine

## 13 5.8L 351 OHV V8 (Windsor), 4" Bore (Ford Eng.)

(cont.) **Marine Applications** Models 233 from Ser. No. 3258728 to 4175499 (233 HP); 255 from Ser. No. 3258728 to 4175499 (255 HP)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
16	Arm Assy., Bulk		<b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust		<b>V-1893</b> Std-15	Chrome plated stem; 1.5400" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk		<b>V-1893B15</b> 15	Chrome plated stem; Carton of 25; 1.5400" Head Dia., .3565" Stem Dia., 5.0700" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide		<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
16	Guide		<b>VG-5005H</b>	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide		<b>VG-5005T</b>	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk		<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk		<b>VG-5005TB</b>	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring		<b>VS-1435</b>	1.9650" Free Height
16	Spring, Bulk		<b>VS-1435B</b>	Carton of 250; 1.9650" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal		<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		<b>MV-1906</b>	Umbrella type; Nylon
16	Valve Stem Seal Bulk		<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.		<b>245-1625-1</b> Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper		<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper		<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston		<b>463P</b> Std-20-30-40-60	233 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
8	Cast Piston - Individual		<b>W463P</b> Std-20-30-40-60	233 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
1	Cast Piston Set w/Prem. Rings		<b>8K463P30</b> 20-30-40-60	233 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
1	Cast Piston Set w/Econ. Rings		<b>8X463P30</b> 30-40-60	233 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set		<b>5107M</b> Std-1-10-20-30-40	
1	Rod Set		<b>8-3380CPA</b> Std-1-10-20-30-40	
1	Rod Set		<b>8-3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-3380A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set		<b>8-3380CPA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair		<b>3380CPA</b> Std-1-10-20-30-40	
8	Rod Pair		<b>3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set		<b>1204M</b> Std-10	Babbitt material; Full round design
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump		<b>224-41143</b>	
1	Screen Assy.		<b>224-11143</b>	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit		<b>381-8015</b>	

# Mercury Marine

## 7.0L 427 OHV V8 (Chevrolet), 4.25" Bore (GMC Eng.) 14 Marine Applications Model 325 (325 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Gear Set		221-2532S	Reverse Rotation; 221-2530 & 221-2531 not sold separately; Incl. (1) 221-2530, (1) 221-2531
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1045M	Reverse Rotation
1	Camshaft		CS-1093M	Standard Rotation
16	Lifter		HT-817 Std Only	Hyd.
16	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1045M	Reverse Rotation; Incl. (1) CS-1045M, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit		KC-1093M	Standard Rotation; Chain driven; Incl. (1) CS-1093M, (16) HT-817, (1) 55-403B
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-233K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-233X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-233K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-233X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4400MA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Main Set		7122MA10 10-20-30	A-Series aluminum bearings; w/.020" O/S length flange brg.
1	Rod Set		8-3190A Std-1-2-10-20-30-40-60	A-Series aluminum bearings
8	Rod Pair		3190A Std-1-2-10-20-30-40-50-60	A-Series aluminum bearings
1	Cam Set		1404M Std Only	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4154	
1	Oil Pump		224-4154G	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1519M	Reverse Rotation; Incl. oval port int. manifold gsks.
1	Kit Gasket Set		260-1518M	Standard Rotation; Incl. oval port int. manifold gsks.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8009	

## 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore (GMC Eng.) 15

Marine Applications Models HP420 (420 HP Gen. IV & Gen. V); HP425 (385 HP Gen. IV & Gen. V); HP425 (400 HP Gen. IV & Gen. V); HP425 (425 HP Gen. IV & Gen. V); HP 525 SC (500 HP Gen. V); 7.4L Blue Water Inboard to Ser. No. D715493 (310 HP & 340 HP Gen. IV); 7.4L Blue Water Inboard from Ser. No. D715494 (310 HP Gen. V); 7.4L Bravo to Ser. No. D603117 (300 HP & 330 HP Gen. IV); 7.4L Bravo I from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo II from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo III from Ser. No. D603118 (350 HP Gen. V); 7.4L EFI Inboard from Ser. No. F215800 (310 HP Gen. V); 330 (330 HP Gen. IV); 340 (340 HP Gen. IV); 350 (350 HP Gen. IV); 370 TRS (370 HP Gen. IV); 400 TRS (400 HP Gen. IV); 450 (450 HP Gen. V); 454 Magnum Alpha from Ser. No. A631894 to B785148 (330 HP Gen. IV); 454 Magnum Bravo from Ser. No. B721206 to D805068 (350 HP & 365 HP Gen. IV); 454 Magnum Bravo from Ser. No. D805069 (350 HP Gen. V)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-501SA	Standard Rotation; 330 From Ser. No. 4623115; Bravo From Ser. No. 0B771113 to 0D603117; Mag Alpha From Ser. No. 0A631 to 0B785148; 330MIE From Ser. No. 4623115 to 5889913; 340MIE From Ser. No. 5889914 to 0D715493; MIE w/Hurth From Ser. No. 0C391564 to 0D71593; 350MIE From Ser. No. 3780450 to 4623109; Incl. silent type chain; Incl. (1) 222-501, (1) 223-392, (1) 223-393
1	Timing Chain		222-168	Double rlr.; 66 Links
1	Timing Chain		222-501	Silent type; 50 Links
1	Crank Sprocket		223-393	19 Teeth
1	Crank Sprocket		223-395	25 Teeth
1	Cam Sprocket		223-392	38 Teeth
1	Cam Sprocket		223-394	50 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1045M	Reverse Rotation; 330MIE, 340MIE B-W, 350MIE; Gear drive cam; Firing order 1-2-7-5-6-3-4-8

(continued on next page)

# Mercury Marine

## 15 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore (GMC Eng.)

(cont.) **Marine Applications** Models HP420 (420 HP Gen. IV & Gen. V); HP425 (385 HP Gen. IV & Gen. V); HP425 (400 HP Gen. IV & Gen. V); HP425 (425 HP Gen. IV & Gen. V); HP 525 SC (500 HP Gen. V); 7.4L Blue Water Inboard to Ser. No. D715493 (310 HP & 340 HP Gen. IV); 7.4L Blue Water Inboard from Ser. No. D715494 (310 HP Gen. V); 7.4L Bravo to Ser. No. D603117 (300 HP & 330 HP Gen. IV); 7.4L Bravo I from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo II from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo III from Ser. No. D603118 (350 HP Gen. V); 7.4L EFI Inboard from Ser. No. F215800 (310 HP Gen. V); 330 (330 HP Gen. IV); 340 (340 HP Gen. IV); 350 (350 HP Gen. IV); 370 TRS (370 HP Gen. IV); 400 TRS (400 HP Gen. IV); 450 (450 HP Gen. V); 454 Magnum Alpha from Ser. No. A631894 to B785148 (330 HP Gen. IV); 454 Magnum Bravo from Ser. No. B721206 to D805068 (350 HP & 365 HP Gen. IV); 454 Magnum Bravo from Ser. No. D805069 (350 HP Gen. V)

QTY	CAMSHAFT/LIFTER (cont.)	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-1047M	Standard Rotation; EFI (Gen V), EFI SKI, Mag Bravo Mag Bravo (Gen V)
1	Camshaft		CS-1093M	Standard Rotation; 330, 330MIE, 340MIE, 350MIE, Bravo, Bravo Gen V, Mag Alpha, MIE EFI Gen V, MIE Gen V, MIE w/Hurth Eng.
16	Lifter		HT-969 Std Only	EFI Gen V, EFI SKI, Mag Bravo, Mag Bravo Gen V; Hyd.; w/.440" wide oil groove
16	Lifter		HT-817 Std Only	330, 330MIE, 340MIE w/B-W, 350MIE, 370TRS, Bravo, Mag Alpha & MIE w/Hurth; Hyd.
16	Lifter, Bulk		HT-969B Std Only	EFI Gen V, EFI SKI, Mag Bravo, Mag Bravo Gen V; Hyd.; Carton of 128
16	Lifter, Bulk		HT-817B Std Only	330, 330MIE, 340MIE w/B-W, 350MIE, 370TRS, Bravo, Mag Alpha & MIE w/Hurth; Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-1045M	Reverse Rotation; 330 MIE, 340/7.4L MIE & 350 MIE; Gear drive cam; Firing order 1-2-7-5-6-3-4-8; Incl. (1) CS-1045M, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit		KC-1093M	Standard Rotation; 330, 7.4L Bravo, 7.4L Bravo Gen V, 454 Mag Alpha, 7.4L EFI MIE Gen V, 330 Gen V, 454 Mag Alpha, 7.4L EFI MIE Gen V, 330 MIE & 350 MIE Eng.; Incl. (1) CS-1093M, (16) HT-817, (1) 55-403B
1	Cam/Lifter Kit		KC-1047M	Standard Rotation; 454 Mag Bravo, 454 Mag Bravo (Gen V), 454 EFI (Gen V) & 454 EFI SKI; Incl. (1) CS-1047M, (16) HT-817, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		R-851	Incl. arm, ball & nut
16	Arm Assy., Bulk		R-851B	Incl. arm, ball & nut; Carton of 64
16	Arm		R-851A	
16	Pivot Ball		MR-1815	
16	Nut		MR-1813	7/16" thread
16	Stud		MR-1910RS	7/16" thread, 1.955" length, .710" depth
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1989X Std-15	Chrome plated stem; Inconel; 1.7200" Head Dia., .3716" Stem Dia., 5.3550" O.A.L.
8	Exhaust, Bulk		V-1989XB15 15	Chrome plated stem; Inconel; Carton of 25; 1.7200" Head Dia., .3866" Stem Dia., 5.3550" O.A.L.
8	Intake		V-1905 Std Only	From Ser. No. 4501641 to 4623114; Chrome plated stem; 2.1890" Head Dia., .3720" Stem Dia., 5.2280" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-688	Exh.; .3740" ID, 2.6300" O.A.L.
8	Guide		VG-689	Int.; .3735" ID, 2.4200" O.A.L.
8	Guide, Bulk		VG-688B	Exh.; Carton of 50; .3740" ID, 2.6300" O.A.L.
8	Guide, Bulk		VG-689B	Int.; Carton of 50; .3735" ID, 2.4200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring		VS-671	From Ser. No. 4623115; 2.0500" Free Height
16	Spring, Bulk		VS-671B	From Ser. No. 4623115; Carton of 150; 2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1769C	Umbrella type; Polyacrylate
16	Valve Stem Seal Bulk		MV-1769	Umbrella type; Carton of 100; Polyacrylate
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-138	1 groove; Square cut key groove
32	Keeper		VK-138R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-138B	1 groove; Square cut key groove; Carton of 1000

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# Mercury Marine

## 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore (GMC Eng.) **15**

**Marine Applications** Models HP420 (420 HP Gen. IV & Gen. V); HP425 (385 HP Gen. IV & Gen. V); HP425 (400 HP Gen. IV & Gen. V); HP425 (425 HP Gen. IV & Gen. V); HP 525 SC (500 HP Gen. V);

7.4L Blue Water Inboard to Ser. No. D715493 (310 HP & 340 HP Gen. IV); 7.4L Blue Water Inboard from Ser. No. D715494 (310 HP Gen. V); 7.4L Bravo to Ser. No. D603117 (300 HP & 330 HP Gen. IV); 7.4L Bravo I from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo II from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo III from Ser. No. D603118 (350 HP Gen. V); 7.4L EFI Inboard from Ser. No. F215800 (310 HP Gen. V); 330 (330 HP Gen. IV); 340 (340 HP Gen. IV); 350 (350 HP Gen. IV); 370 TRS (370 HP Gen. IV); 400 TRS (400 HP Gen. IV); 450 (450 HP Gen. V); 454 Magnum Alpha from Ser. No. A631894 to B785148 (330 HP Gen. IV); 454 Magnum Bravo from Ser. No. B721206 to D805068 (350 HP & 365 HP Gen. IV); 454 Magnum Bravo from Ser. No. D805069 (350 HP Gen. V)

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		<b>H661CP</b> Std-20-30-40-60-100	330, 330 MIE, 340/7.4L MIE, 7.4L Bravo, 7.4L MIE w/Hurth, 7.4L Bravo, 454 Mag Alpha. All Exc. GEN V Engs.; Use in sets only; Hypereutectic; Use w/E-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual		<b>WH661CP</b> Std-20-30-40-60-100	330, 330 MIE, 340/7.4L MIE, 7.4L Bravo, 7.4L MIE w/Hurth, 7.4L Bravo, 454 Mag Alpha. All Exc. GEN V Engs.; Use in sets only; Hypereutectic; Use w/WE-424K 30 ring set; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; Use E424K30 ring set for H661CP100; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		<b>8KH661CP30</b> 30-40-60	330, 330 MIE, 340/7.4L MIE, 7.4L Bravo, 7.4L MIE w/Hurth, 7.4L Bravo, 454 Mag Alpha. All Exc. GEN V Engs.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9893" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Powerforged		<b>L-2377F</b> Std-20-30-40-60	330, 330 MIE, 340/7.4L MIE, 7.4L Bravo, 7.4L MIE w/Hurth, 7.4L Bravo, 454 Mag Alpha. All Exc. GEN V Engs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Powerforged		<b>L-2399F</b> Std-30-40-60	350, 370 TRS, 400 TRS, 420, 425, 440 TRS, 454 Mag Bravo; Exc. GEN V Engs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .095" high. <b>DurOshield® skirt coated piston.</b>
8	Powerforged		<b>L-2453F</b> Std-30-60	525SC Engs.; Exc. GEN V; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9897" Pin Dia., Recessed Head .065" deep "D" shaped cup w/1 valve relief. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2377F</b> Std-20-30-40-60	330, 330 MIE, 340/7.4L MIE, 7.4L Bravo, 7.4L MIE w/Hurth, 7.4L Bravo, 454 Mag Alpha. All Exc. GEN V Engs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9894" Pin Dia., Flat Head w/2 valve reliefs .180" wide x 45 degree top land chamfer. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2399F</b> Std-30-40-60	350, 370 TRS, 400 TRS, 420, 425, 440 TRS, 454 Mag Bravo; Exc. GEN V Engs.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.645" CD, .9894" Pin Dia., Domed Head .095" high.
8	Forged Piston - Individual		<b>WL-2453F</b> Std-30-60	525SC Engs.; Exc. GEN V; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9897" Pin Dia., Recessed Head .065" deep "D" shaped cup w/1 valve relief. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-233X</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-233K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-233X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4400MA</b> Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Main Set		<b>7122MA10</b> 10-20-30	<b>A-Series aluminum bearings;</b> w/.020" O/S length flange brg.
1	Main Set		<b>7273M</b> Std-20	Full grooved
1	Rod Set		<b>8-3190A</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
8	Rod Pair		<b>3190A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Cam Set		<b>1404M</b> Std Only	Babbitt material; Full round design

(continued on next page)

# Mercury Marine

**15 7.4L 454 OHV V8 (Chevrolet), 4.25" Bore (GMC Eng.)**  
 (cont.) **Marine Applications** Models HP420 (420 HP Gen. IV & Gen. V); HP425 (385 HP Gen. IV & Gen. V); HP425 (400 HP Gen. IV & Gen. V); HP425 (425 HP Gen. IV & Gen. V); HP 525 SC (500 HP Gen. V); 7.4L Blue Water Inboard to Ser. No. D715493 (310 HP & 340 HP Gen. IV); 7.4L Blue Water Inboard from Ser. No. D715494 (310 HP Gen. V); 7.4L Bravo to Ser. No. D603117 (300 HP & 330 HP Gen. IV); 7.4L Bravo I from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo II from Ser. No. D603118 (300 HP & 330 HP Gen. V); 7.4L Bravo III from Ser. No. D603118 (350 HP Gen. V); 7.4L EFI Inboard from Ser. No. F215800 (310 HP Gen. V); 330 (330 HP Gen. IV); 340 (340 HP Gen. IV); 350 (350 HP Gen. IV); 370 TRS (370 HP Gen. IV); 400 TRS (400 HP Gen. IV); 450 (450 HP Gen. V); 454 Magnum Alpha from Ser. No. A631894 to B785148 (330 HP Gen. IV); 454 Magnum Bravo from Ser. No. B721206 to D805068 (350 HP & 365 HP Gen. IV); 454 Magnum Bravo from Ser. No. D805069 (350 HP Gen. V)

B L O C K	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Oil Pump		<b>224-4154G</b>	"Short Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance	
	1	Oil Pump		<b>224-4154</b>	"Tall Pump"; Compare to orig.; Check for adequate main cap and crankshaft clearance	
B L O C K	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Kit Gasket Set		<b>260-1519M</b>	Generation IV Engs. 300 HP to 350 HP; Rev. Rot. Incl. oval port int. manifold gskts.	
	1	Kit Gasket Set		<b>260-1518M</b>	Generation IV Engs. 300 HP to 350 HP; Standard Rotation; Incl. oval port int. manifold gskts.	
	1	Kit Gasket Set		<b>260-1520M</b>	Generation IV Engs. 365 HP to 400 HP; Standard Rotation; Incl. rectangular port int. manifold gskts.	
B L O C K	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	B L O C K
	1	Brass Block Plug Kit		<b>381-8009</b>		

**16 8.2L 502 OHV V8 (Performance), 4.466" Bore (GMC Eng.)**  
**Marine Applications** Models HP465 (465 HP Gen. V); HP 600 SC (550 HP Gen. V); 8.2L Inboard to Ser. No. D857199 (400 HP Gen. IV); 8.2L Inboard from Ser. No. D857200 to F819619 (400 HP Gen. V); 500 (470 HP Gen. V); 502 Magnum Bravo to Ser. No. D824588 (390 HP Gen. IV); 502 Magnum Bravo from Ser. No. D824589 (390 HP & 415 HP Gen. V)

B L O C K	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	B L O C K		
	16	Lifter		<b>HT-2279</b>	Std Only		Hyd. rlr.	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	B L O C K		
	1	Premium Set		<b>E-648K</b>	Std-30-60		1-2.00MM, 1-1.50MM, 1-4.00MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		B L O C K	
	1	Main Set		<b>4400MA</b>	Std-1-2-10-20-30-40			<b>A-Series aluminum bearings</b>
	1	Main Set		<b>7122MA10</b>	10-20-30			<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
	1	Main Set		<b>7273M</b>	Std-20			Full grooved
	1	Rod Set		<b>8-3190A</b>	Std-1-2-10-20-30-40-60			<b>A-Series aluminum bearings</b>
8	Rod Pair		<b>3190A</b>	Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>			
1	Cam Set		<b>1404M</b>	Std Only	Babbitt material; Full round design			
B L O C K	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	B L O C K		
	1	Brass Block Plug Kit		<b>381-8009</b>				

## MG - See British Leyland Mitsubishi Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.5L 1468cc SOHC L4 75.5mm Bore (8 Valve).....	1990-85	1	2.0L 1997cc SOHC L4 85mm Bore (8 Valve).....	1990-84	8
1.6L 1595cc DOHC L4 82.3mm Bore (16 Valve) .....	1990	2	2.0L 1997cc DOHC L4 85mm Bore (16 Valve) .....	1990-89	9
1.6L 1595cc DOHC Turbo L4 82.3mm Bore (16 Valve).....	1989	3	2.0L 1997cc DOHC Turbo L4 85mm Bore (16 Valve).....	1990	10
1.6L 1597cc SOHC Turbo L4 76.9mm Bore (8 Valve).....	1988-85	4	2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve).....	1987-85	11
1.8L 1755cc SOHC L4 80.6mm Bore (8 Valve).....	1990-89	5	2.6L 2555cc SOHC Turbo L4 91.1mm Bore (8 Valve).....	1989-83	12
1.8L 1795cc SOHC L4 80.6mm Bore (8 Valve).....	1983	6	3.0L 2972cc SOHC V6 91.1mm Bore (12 Valve) .....	1990-88	13
1.8L 1795cc SOHC Turbo L4 80.6mm Bore (8 Valve).....	1988-84	7			



## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G15B	1.5L 1468cc SOHC L4 75.5mm Bore (8 Valve)	1	4G15	1.5L 1468cc SOHC L4 75.5mm Bore (8 Valve)	1
G32B-T	1.6L 1597cc SOHC Turbo L4 76.9mm Bore (8 Valve)	4	4G37	1.8L 1755cc SOHC L4 80.6mm Bore (8 Valve)	5
G4AJ	1.5L 1468cc SOHC L4 75.5mm Bore (8 Valve)	1	4G61	1.6L 1595cc DOHC L4 82.3mm Bore (16 Valve)	2
G4DJ	1.5L 1468cc SOHC L4 75.5mm Bore (8 Valve)	1	4G61-T	1.6L 1595cc DOHC Turbo L4 82.3mm Bore (16 Valve)	3
G54B-T	2.6L 2555cc SOHC Turbo L4 91.1mm Bore (8 Valve)	12	4G63	2.0L 1997cc SOHC L4 85mm Bore (8 Valve)	8
G62B	1.8L 1795cc SOHC L4 80.6mm Bore (8 Valve)	6	4G63	2.0L 1997cc DOHC L4 85mm Bore (16 Valve)	9
G62B-T	1.8L 1795cc SOHC Turbo L4 80.6mm Bore (8 Valve)	7	4G63-T	2.0L 1997cc DOHC Turbo L4 85mm Bore (16 Valve)	10
G63B	2.0L 1997cc SOHC L4 85mm Bore (8 Valve)	8	4G64	2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve)	11
G64B	2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve)	11	6G72	3.0L 2972cc SOHC V6 91.1mm Bore (12 Valve)	13

### 1.5L 1468cc SOHC L4 (8 Valve), 75.5mm Bore 1990-85 **1** Eng. Codes "G4AJ" 1987-89, "G4DJ" 1990-94, "G15B" 1985-88, "4G15" 1989-90

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-128	Eng. Code "4G15"
1	Timing Belt	88-87	222-128	Eng. Code "G15B"
1	Timing Belt	86	222-128	Eng. Code "G15B"; From 6/86
1	Timing Belt	86	222-73	Eng. Code "G15B"; To 5/86
1	Timing Belt	85	222-73	Eng. Code "G15B"
1	Timing Belt Tensioner	90-85	222-33BT	Eng. Codes "G15B" & "4G15"
1	Timing Belt & Tensioner Set	90-87	BTS-128	Eng. Code "G15B"
1	Crank Sprocket	90-87	223-2026	20 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
1	Rocker Shaft	90-87	RS-638	Exh.; Exc. Precis
1	Rocker Shaft	90-87	RS-639	Int.; Exc. Precis
1	Rocker Shaft	86-85	RS-638	Exh.
1	Rocker Shaft	86-85	RS-639	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90	V-2253 Std Only	Eng. Code "G4DJ"; Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.
4	Exhaust	90-89	V-2253 Std Only	Eng. Code "4G15"; Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.
4	Exhaust	89-87	V-2253 Std Only	Eng. Code "G4AJ"; Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.
4	Exhaust	88-85	V-2253 Std Only	Eng. Code "G15B"; Nitrided stem; 1.1810" Head Dia., .2580" Stem Dia., 3.9700" O.A.L.
4	Intake	90	V-4067 Std Only	Eng. Code "G4DJ"; Chrome plated stem; 1.3790" Head Dia., .2600" Stem Dia., 4.0040" O.A.L.
4	Intake	90-89	V-4067 Std Only	Eng. Code "4G15"; Chrome plated stem; 1.3790" Head Dia., .2600" Stem Dia., 4.0040" O.A.L.
4	Intake	89-87	V-2254 Std Only	Eng. Code "G4AJ"; Nitrided stem; 1.3400" Head Dia., .2580" Stem Dia., 4.0200" O.A.L.
4	Intake	88-85	V-2254 Std Only	Eng. Code "G15B"; Nitrided stem; 1.3400" Head Dia., .2580" Stem Dia., 4.0200" O.A.L.
4	Intake	88-85	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-85	VG-721	Exh.; .2610" ID, 1.9500" O.A.L.
4	Guide	90-85	VG-722	Int.; .2610" ID, 1.7300" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90	VS-1512	Exh. & Int.; Eng. Code "G4DJ"; 1.7990" Free Height
8	Spring	90-89	VS-1512	Exh. & Int.; Eng. Code "4G15"; 1.7990" Free Height
8	Spring	89-87	VS-1512	Exh. & Int.; Eng. Code "G4AJ"; 1.7990" Free Height
8	Spring	88-85	VS-1512	Exh. & Int.; Eng. Code "G15B"; 1.7990" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-85	ST-2056	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	90-85	245-1312-53 Std Only	Eng. Codes "4G15" & "G15B"; 1.3195" OD, .9800" ID, .2930" Depth

VALVE TRAIN

VALVE TRAIN

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# Mitsubishi Car

**1** 1.5L 1468cc SOHC L4 (8 Valve), 75.5mm Bore 1990-85  
 (cont.) Eng. Codes "G4AJ" 1987-89, "G4DJ" 1990-94, "G15B" 1985-88, "4G15" 1989-90

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-85	VK-230	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	90-89	12738P.50MM .50-1.00MM	Eng. Code "4G15"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep
4	Cast Piston	88	12738P.50MM .50-1.00MM	Eng. Code "G15B"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep
4	Cast Piston	88	12738P.50MM .50-1.00MM	Eng. Code "4G15"; From 4/88; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep
4	Cast Piston	87	12738P.50MM .50-1.00MM	Eng. Code "G15B"; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep
4	Cast Piston	86	12738P.50MM .50-1.00MM	Eng. Code "G15B"; From 6/86; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.150" CD, .7089" Pin Dia., Recessed Head .145" deep
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90	E-619KC Std-.50MM	Eng. Code "G4DJ"; From 6/90; 1-1.20MM, 1-1.50MM, 1-3.00MM
1	Premium Set	90	E-516KC Std-.50-.75MM	To 5/90; 2-1.50MM, 1-4.00MM
1	Premium Set	89-85	E-516KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	90	E-516X Std-.50-.75-1.00MM	To 5/90; 2-1.50MM, 1-4.00MM
1	Standard Set	89-85	E-516X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90	WE-619KC Std Only	Eng. Code "G4DJ"; From 6/90; 1-1.20MM, 1-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	WE-516KC Std-.50MM	To 5/90; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	89-85	WE-516KC Std-.50MM	2-1.50MM, 1-4.00MM
4	Standard Single Cylinder Set	90	WE-516X Std-.50-1.00MM	To 5/90; 2-1.50MM, 1-4.00MM
4	Standard Single Cylinder Set	89-85	WE-516X Std-.50-1.00MM	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-85	6630M Std-.25-.50MM	
1	Rod Set	90-89	4-4475RA Std-.25-.50MM	
1	Rod Set	88	4-4475RA Std-.25-.50MM	From 9/88
1	Rod Set	88	4-3955RA Std-.25-.50-.75MM	To 8/88
1	Rod Set	87-85	4-3955RA Std-.25-.50-.75MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Screen Assy.	90	224-14281	Eng. Code "4G15"
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-89	260-1701	Eng. Code "4G15"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89	260-1194	Eng. Code "G4AJ"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	88-87	260-1194	Eng. Codes "G15B" & "G4AJ"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86-85	260-1194	Eng. Code "G15B"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	90-89	381-8095	
1	Brass Block Plug Kit	88-85	381-8095	Eng. Code "G15B"
	<b>RE-RING KIT</b>			
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b> <b>ECONOMY KIT NO.</b>
90	Eng. Code "4G15"; To 5/90; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6324 205-1324 205-6324M 205-1324M
89	Eng. Code "4G15"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6324 205-1324 205-6324M 205-1324M
89	Eng. Code "G4AJ"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains		205-6325 205-1325 205-6325M 205-1325M
88	Eng. Codes "G15B" & "G4AJ"; To 8/88; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		205-6095 205-1095 205-6095M 205-1095M
88	Eng. Codes "G15B" & "G4AJ"; From 9/88; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/2-1.50MM, 1-4.00MM ring groove	Re-ring Re-ring w/Mains		205-6325 205-1325 205-6325M 205-1325M

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# Mitsubishi Car

1.5L 1468cc SOHC L4 (8 Valve), 75.5mm Bore 1990-85 <b>1</b>						
Eng. Codes "G4AJ" 1987-89, "G4DJ" 1990-94, "G15B" 1985-88, "4G15" 1989-90 (cont.)						
K I T S	RE-RING KIT (cont.)				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
	87	Eng. Codes "G15B" & "G4AJ"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			205-6095 205-6095M
86-85	Eng. Code "G15B"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			205-6095 205-6095M	205-1095 205-1095M
1.6L 1595cc DOHC L4 (16 Valve), 82.3mm Bore 1990 <b>2</b>						
Eng. Code "4G61" 1990-92						
V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
	1	Timing Belt	90	222-B165		
	1	Timing Belt Tensioner	90	222-327BT		
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	16	Lifter	90	HT-2274	Std Only Hyd. lash adj.	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	8	Exhaust	90	V-2653	Std Only Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.	
	8	Exhaust, Bulk	90	V-2653B	Std Only Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.	
	8	Intake	90	V-2652	Std Only Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
	8	Intake, Bulk	90	V-2652B	Std Only Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
	8	Guide	90	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.	
	8	Guide	90	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
	16	Spring	90	VS-1535	1.8000" Free Height	
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	90	ST-2056	Positive type; Rubber		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
8	Exh.	90	245-1312-64	Std Only 1.3190" OD, 1.0450" ID, .3165" Depth		
8	Int.	90	245-1437-68	Std Only 1.4445" OD, 1.1350" ID, .3165" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	90	VK-230			
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	90	E-742KC	Std Only 1-1.20MM, 1-1.50MM, 1-3.00MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90	5103M	Std-.25-.50-.75MM		
1	Rod Set	90	4-3485CP	Std-.25-.50-.75MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	90	260-1704	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
RE-RING KIT					PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION					
90	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains			205-6704 205-6704M	----- -----
1.6L 1595cc DOHC Turbo L4 (16 Valve), 82.3mm Bore 1989 <b>3</b>						
Eng. Code "4G61-T" 1989						
QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	Timing Belt	89	222-B165			
1	Timing Belt Tensioner	89	222-327BT			
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
16	Lifter	89	HT-2274	Std Only Hyd. lash adj.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
8	Exhaust	89	V-2653	Std Only Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.		
8	Intake	89	V-2652	Std Only Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	89	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.		
8	Guide	89	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	89	VS-1535	Exh. & Int.; 1.8000" Free Height		

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# Mitsubishi Car

## 3 1.6L 1595cc DOHC Turbo L4 (16 Valve), 82.3mm Bore 1989

(cont.) Eng. Code "4G61-T" 1989

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	89	ST-2056	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	89	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth
8	Int.	89	245-1437-68 Std Only	1.4445" OD, 1.1350" ID, .3165" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89	VK-230	Exh. & Int.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89	5103M Std-.25-.50-.75MM	
1	Rod Set	89	4-3485CP Std-.25-.50-.75MM	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	89	260-1704	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

## 4 1.6L 1597cc SOHC Turbo L4 (8 Valve), 76.9mm Bore 1988-85

Eng. Code "G32B-T" 1985-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt Tensioner	88-87	222-328BT	
1	Timing Belt Tensioner	86	222-328BT	From 3/86
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Intake	86	V-3953 Std Only	To 5/86; Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
4	Intake	85	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	88-85	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
4	Guide	88-85	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
4	Guide	88-85	VG-710	Int.; .3155" ID, 1.7280" O.A.L.
4	Guide, Bulk	88-85	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	88-85	ST-2083	Exh.; Positive type; Rubber
4	Valve Stem Seal	88-85	ST-2037	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	88-85	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-85	VK-232	
8	Spring Insert	88-85	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-85	E-486KC Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	88-85	E-486X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	88-85	WE-486KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-85	5103M Std-.25-.50-.75MM	
1	Rod Set	88-85	4-3485CP Std-.25-.50-.75MM	
1	Cam Set	88-85	1858M Std Only	
1	Aux. Shaft Set	88-85	1806M	

## 5 1.8L 1755cc SOHC L4 (8 Valve), 80.6mm Bore 1990-89

Eng. Code "4G37" 1989-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	222-158	
1	Timing Belt Tensioner	90-89	222-328BT	
1	Bal. Shaft Belt	90-89	222-159	
1	Bal. Shaft Belt Tensioner	90-89	222-38BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	90	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90	V-2658 Std Only	Chrome plated stem; 1.3390" Head Dia., .3125" Stem Dia., 3.7630" O.A.L.
4	Intake	90	V-2659 Std Only	Chrome plated stem; 1.6540" Head Dia., .3137" Stem Dia., 3.8660" O.A.L.

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**1.8L 1755cc SOHC L4 (8 Valve), 80.6mm Bore 1990-89 5**

Eng. Code "4G37" 1989-94 (cont.)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
4	Guide	90	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
4	Guide	90	VG-710	Int.; .3155" ID, 1.7280" O.A.L.
4	Guide, Bulk	90	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	90-89	ST-2083	Exh. & Int.; Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90	VK-232	
8	Spring Insert	90	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	E-541KC Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	90	E-541X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90	WE-541KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	5103M Std-.25-.50-.75MM	
1	Rod Set	90	4-3485CP Std-.25-.50-.75MM	
1	Aux. Shaft Set	90	1806M	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Screen Assy.	90-89	224-14281	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1703	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
RE-RING KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-6375 205-6375M	205-1375 205-1375M

**1.8L 1795cc SOHC L4 (8 Valve), 80.6mm Bore 1983 6**

Eng. Code "G62B" 1983

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	83	222-89	
1	Timing Belt Tensioner	83	222-105BT	
1	Bal. Shaft Belt	83	222-90	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	83	V-3933 Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.
4	Intake	83	V-2331 Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.
4	Intake	83	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	83	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	83	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	83	ST-2083	Exh.; Positive type; Rubber
4	Valve Stem Seal	83	ST-2037	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	83	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
4	Int.	83	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	83	VK-232	
8	Spring Insert	83	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	83	E-541KC Std Only	2-1.50MM, 1-4.00MM
1	Premium Set	83	E-778KC Std Only	2-2.00MM, 1-4.00MM
1	Standard Set	83	E-541X Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	83	WE-541KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83	5103M Std-.25-.50-.75MM	
1	Rod Set	83	4-3485CP Std-.25-.50-.75MM	
1	Cam Set	83	1858M Std Only	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	83	381-8099	

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**7 1.8L 1795cc SOHC Turbo L4 (8 Valve), 80.6mm Bore 1988-84**  
Eng. Code "G62B-T" 1984-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-87	222-158	
1	Timing Belt	86-84	222-89	
1	Timing Belt Tensioner	88-84	222-105BT	
1	Bal. Shaft Belt	88-87	222-159	
1	Bal. Shaft Belt	86-84	222-90	
1	Bal. Shaft Belt Tensioner	88	222-161BT	
1	Bal. Shaft Belt Tensioner	87	222-161BT	From 5/87
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	88-86	CS-817	w/Hyd. followers
1	Camshaft	85	CS-817	From 6/85; w/Hyd. followers
8	Lifter	88-86	HT-6000 Std Only	Hyd. lash adj.
8	Lifter	85	HT-6000 Std Only	From 6/85; Hyd. lash adj.
8	Lifter, Bulk	88-86	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
8	Lifter, Bulk	85	HT-6000B Std Only	From 6/85; Hyd. lash adj.; Carton of 128
1	Prelube	88-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Arm	88-86	R-958	Arm "C", Exh. 1-3; Cordia & Tredia
2	Arm	85	R-958	Arm "C", Exh. 1-3; Cordia
2	Arm	85	R-958	Arm "C", Exh. 1-3; From 6/85; Tredia
2	Arm	84	R-958	Arm "C", Exh. 1-3; From 5/84; Cordia
1	Rocker Shaft	88-86	RS-658	Exh.; Cordia & Tredia
1	Rocker Shaft	88-86	RS-659	Int.; Cordia & Tredia
1	Rocker Shaft	85	RS-658	Exh.; Cordia
1	Rocker Shaft	85	RS-658	Exh.; From 6/85; Tredia
1	Rocker Shaft	85	RS-659	Int.; Cordia
1	Rocker Shaft	85	RS-659	Int.; From 6/85; Tredia
1	Rocker Shaft	84	RS-658	Exh.; From 5/84; Cordia
1	Rocker Shaft	84	RS-659	Int.; From 5/84; Cordia
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	88-84	V-3933 Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.
4	Intake	88-84	V-2331 Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.
4	Intake	88-84	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	88-84	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	88-84	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	88-86	VS-1461	Exh. & Int.; 1.9600" Free Height
8	Spring	85	VS-1461	Exh. & Int.; Cordia; 1.9600" Free Height
8	Spring	85	VS-1461	Exh. & Int.; From 6/85; Tredia; 1.9600" Free Height
8	Spring	84	VS-1461	Exh. & Int.; From 5/84; Cordia; 1.9600" Free Height
8	Spring, Bulk	88-86	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	85	VS-1461B	Exh. & Int.; Cordia; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	85	VS-1461B	Exh. & Int.; From 6/85; Tredia; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 5/84; Cordia; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	88-84	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
4	Int.	88-84	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-84	VK-232	
8	Spring Insert	88-84	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-84	E-541KC Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	88-84	WE-541KC Std Only	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-84	5103M Std-.25-.50-.75MM	
1	Rod Set	88-84	4-3485CP Std-.25-.50-.75MM	
1	Cam Set	88-84	1858M Std Only	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	88-84	381-8099	

VALVE TRAIN

VALVE TRAIN

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# Mitsubishi Car

2.0L 1997cc SOHC L4 (8 Valve), 85mm Bore 1990-84 **8**

Eng. Codes "G63B" 1984-88, "4G63" 1989-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-155	
1	Timing Belt	89	222-155	
1	Timing Belt	89	222-158	Exc. Galant
1	Timing Belt	88-84	222-158	
1	Timing Belt Tensioner	90	222-333BT	
1	Timing Belt Tensioner	89	222-105BT	Exc. Galant
1	Timing Belt Tensioner	89	222-333BT	Galant
1	Timing Belt Tensioner	88-84	222-105BT	
1	Bal. Shaft Belt	90-84	222-159	
1	Bal. Shaft Belt Tensioner	90-89	222-161BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	88-85	CS-817	w/Hyd. followers
1	Camshaft	84	CS-817	From 5/84; w/Hyd. followers
8	Lifter	90-85	HT-6000 Std Only	Hyd. lash adj.
8	Lifter	84	HT-6000 Std Only	From 5/84; Hyd. lash adj.
8	Lifter, Bulk	90-85	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
8	Lifter, Bulk	84	HT-6000B Std Only	From 5/84; Hyd. lash adj.; Carton of 128
1	Prelube	88-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Arm	88-85	R-958	Exh. "C" 1-3
2	Arm	84	R-958	Exh. "C" 1-3; From 5/84
1	Rocker Shaft	88-85	RS-658	Exh.
1	Rocker Shaft	88-85	RS-659	Int.
1	Rocker Shaft	84	RS-658	Exh.; From 5/84
1	Rocker Shaft	84	RS-659	Int.; From 5/84
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-84	V-3933 Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.
4	Intake	90-84	V-2331 Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.
4	Intake	88-84	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-84	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	89-84	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	89-85	VS-1461	Exh. & Int.; 1.9600" Free Height
8	Spring	84	VS-1461	Exh. & Int.; From 5/84; 1.9600" Free Height
8	Spring, Bulk	89-85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 5/84; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	89-84	ST-2083	Exh.; Positive type; Rubber
4	Valve Stem Seal	89-84	ST-2037	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	89-84	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
4	Int.	89-84	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-84	VK-232	
8	Spring Insert	89-84	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-89	E-455KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Premium Set	88-84	E-452KC Std-.75-1.00MM	2-2.00MM, 1-4.00MM
1	Standard Set	90-89	E-455X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	88-84	E-452X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
4	Premium Single Cylinder Set	90-89	WE-455KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	88-84	WE-452KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	90-89	WE-455X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-84	5103M Std-.25-.50-.75MM	
1	Rod Set	90-84	4-3485CP Std-.25-.50-.75MM	
1	Bal. Shaft Set	90-84	1810M	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-84	260-1199	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

VALVE TRAIN

VALVE TRAIN

BLOCK

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# Mitsubishi Car

## 8 2.0L 1997cc SOHC L4 (8 Valve), 85mm Bore 1990-84 (cont.) Eng. Codes "G63B" 1984-88, "4G63" 1989-92

QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	89-84	381-8099	Eng. Code "G63B"		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	90-89	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-875	205-375
			Re-ring w/Mains		205-875M	205-375M
88-84	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-874	205-374	
		Re-ring w/Mains		205-874M	205-374M	

## 9 2.0L 1997cc DOHC L4 (16 Valve), 85mm Bore 1990-89 Eng. Code "4G63" 1989-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	Timing Belt	90-89	222-B167			
1	Timing Belt Tensioner	90-89	222-327BT			
1	Timing Belt & Tensioner Set	90	BTS-167			
1	Bal. Shaft Belt	90-89	222-B168			
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Lifter	90-89	HT-2274 Std Only	Hyd. lash adj.	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Exhaust	90-89	V-2653 Std Only	Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.	
	8	Exhaust, Bulk	90-89	V-2653B Std Only	Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.	
	8	Intake	90-89	V-2652 Std Only	Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
	8	Intake, Bulk	90-89	V-2652B Std Only	Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Guide	90-89	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.	
	8	Guide	90-89	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Spring	90-89	VS-1535	1.8000" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal	90-89	ST-2056	Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exh.	90-89	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth		
4	Int.	90-89	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
32	Keeper	90-89	VK-230			
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Cast Piston	90-89	13507P Std Only	Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 35.0mm CD, 21.0mm Pin Dia., Recessed Head 2.10mm deep x 75.00mm dia. w/4 valve reliefs	
	4	Cast Piston - Individual	90-89	W13507P Std Only	Cast; 1-1.20mm, 1-1.50mm, 1-3.00mm Ring Groove, 35.0mm CD, 21.0mm Pin Dia., Recessed Head 2.10mm deep x 75.00mm dia. w/4 valve reliefs	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90-89	E-522KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM	
	4	Premium Single Cylinder Set	90-89	WE-522KC Std-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-89	5103M Std-.25-.50-.75MM		
	1	Rod Set	90-89	4-3485CP Std-.25-.50-.75MM		
	1	Bal. Shaft Set	90-89	1810M		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-89	224-43602			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-89	260-1704	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	89	381-8099			
	<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>KIT NO.</b>	<b>KIT NO.</b>
	90-89	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6328	-----
		Re-ring w/Mains		205-6328M	-----	

(continued on next page)



# Mitsubishi Car

2.0L 1997cc DOHC L4 (16 Valve), 85mm Bore 1990-89 **9**

Eng. Code "4G63" 1989-94 (cont.)

**OVERHAUL KIT**

**YEARS DESCRIPTION**

90-89 Exh. pipe packing not incl.; PermaDry® molded rubber Block  
valve cover gskt. incl.; Premium valve stem seals incl.;  
Incl. 13507P piston

**PREMIUM  
KIT NO.**  
BK-6296

**ECONOMY  
KIT NO.**  
-----

2.0L 1997cc DOHC Turbo L4 (16 Valve), 85mm Bore 1990 **10**

Eng. Code "4G63-T" 1989-99

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B167	
1	Timing Belt Tensioner	90	222-327BT	
1	Timing Belt & Tensioner Set	90	BTS-167	
1	Bal. Shaft Belt	90	222-B168	
<b>VALVE TRAIN</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Lifter	90	HT-2274 Std Only	Hyd. lash adj.
<b>VALVE TRAIN</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust	90	V-2653 Std Only	Chrome plated stem; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
8	Exhaust, Bulk	90	V-2653B Std Only	Chrome plated stem; Carton of 25; 1.2010" Head Dia., .2575" Stem Dia., 4.3190" O.A.L.
8	Intake	90	V-2652 Std Only	Chrome plated stem; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
8	Intake, Bulk	90	V-2652B Std Only	Chrome plated stem; Carton of 25; 1.3390" Head Dia., .2575" Stem Dia., 4.3210" O.A.L.
<b>VALVE TRAIN</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	90	VG-903	Exh.; .4785" OD; .2580" ID, 1.9900" O.A.L.
8	Guide	90	VG-904	Int.; .008" O/S, .4840" OD; .2580" ID, 1.8000" O.A.L.
<b>VALVE TRAIN</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring	90	VS-1535	1.8000" Free Height
<b>VALVE TRAIN</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	90	ST-2056	Positive type; Rubber
<b>VALVE TRAIN</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.	90	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth
8	Int.	90	245-1437-68 Std Only	1.4445" OD, 1.1350" ID, .3165" Depth
<b>VALVE TRAIN</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	90	VK-230	Exh. & Int.
<b>BLOCK</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90	E-522KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	WE-522KC Std-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM
<b>BLOCK</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90	5103M Std-.25-.50-.75MM	
1	Rod Set	90	4-3485CP Std-.25-.50-.75MM	
1	Bal. Shaft Set	90	1810M	
<b>BLOCK</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90	260-1704	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
<b>RE-RING KIT</b>	<b>YEARS DESCRIPTION</b>			
90	Turbo mtg. gskts. not incl.; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>PREMIUM KIT NO.</b> 205-6328 205-6328M	<b>ECONOMY KIT NO.</b> ----- -----

2.4L 2351cc SOHC L4 (8 Valve), 86.5mm Bore 1987-85 **11**

Eng. Codes "G64B" 1985-87, "4G64" 1992

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	87-85	222-124	
1	Timing Belt Tensioner	87-85	222-105BT	
1	Timing Belt & Tensioner Set	87-85	BTS-124	
1	Bal. Shaft Belt	87	222-159	
1	Bal. Shaft Belt	86-85	222-90	
1	Bal. Shaft Belt Tensioner	87	222-161BT	From 5/87
<b>VALVE TRAIN</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Lifter	87	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	87	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	87-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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# Mitsubishi Car

## 11 2.4L 2351cc SOHC L4 (8 Valve), 86.5mm Bore 1987-85

(cont.) Eng. Codes "G64B" 1985-87, "4G64" 1992

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
2	Arm	87-85	R-958	Exh. "C" 1-3	
1	Rocker Shaft	87-85	RS-658	Exh.	
1	Rocker Shaft	87-85	RS-659	Int.	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	87-85	V-2660 Std Only	Chrome plated stem; 1.4960" Head Dia., .3126" Stem Dia., 4.1410" O.A.L.	
4	Intake	87-85	V-2661 Std Only	Chrome plated stem; 1.8110" Head Dia., .3140" Stem Dia., 4.1909" O.A.L.	
4	Intake	86	V-3953 Std Only	To 5/86; Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.	
4	Intake	85	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	87-85	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.	
4	Guide	87-85	VG-715	Int.; .3155" ID, 1.8500" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	87-85	VS-1461	Exh. & Int.; 1.9600" Free Height	
8	Spring, Bulk	87-85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
4	Valve Stem Seal	87-85	ST-2083	Exh.; Positive type; Rubber	
4	Valve Stem Seal	87-85	ST-2037	Int.; Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	87-85	245-1875-51 Std Only	1.8820" OD, 1.5750" ID, .3170" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	87-85	VK-232		
8	Spring Insert	87-85	259-821B	.060"; Case hardened; Carton of 48	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	87-85	E-524KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	87-85	E-524X Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	87-85	WE-524KC Std Only	2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	87-85	5103M Std-.25-.50-.75MM		
1	Rod Set	87-85	4-3485CP Std-.25-.50-.75MM		
1	Cam Set	87-85	1858M Std Only		
1	Bal. Shaft Set	87-85	1810M		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	87-85	260-1709	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	87-85	381-8099	Eng. Code "G64B"	
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
		87-85	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	205-6335	205-1335
			Re-ring	205-6335M	205-1335M
			Re-ring w/Mains		

## 12 2.6L 2555cc SOHC Turbo L4 (8 Valve), 91.1mm Bore 1989-83

Eng. Code "G54B-T" 1983-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	89-83	KT-1013S	Incl. sprockets, chain, tensioner & guides
1	Bal. Shaft Set	89-83	KT-1014S	Incl. sprockets, chain & guides
1	Timing Chain	89-83	222-3DR102	Double rlr.; 102 Links
1	Timing Chain Tensioner	89-83	222-49CT	
1	Timing Chain Guide	89-83	222-31GP	Slack Side
1	Timing Chain Guide	89-83	222-30GP	Tension Side
1	Bal. Shaft Chain Guide	89-83	222-51GP	Lower
1	Bal. Shaft Chain Guide	89-83	222-64GP	R.H.
1	Crank Sprocket	89-83	223-407	Outer; Single row; 34 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	89-87	CS-810	
1	Camshaft	86	CS-810	From 10/85
1	Camshaft	85	CS-810	From 6/85; w/o Intercooler
8	Lifter	89-85	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	89-85	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	89-85	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	89-86	R-958	Exh.; w/Intercooler
4	Arm	85	R-958	Exh.; From 10/85; w/Intercooler

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# Mitsubishi Car

2.6L 2555cc SOHC Turbo L4 (8 Valve), 91.1mm Bore 1989-83 **12**

Eng. Code "G54B-T" 1983-89 (cont.)

2.6L 2555cc SOHC Turbo L4 (8 Valve), 91.1mm Bore 1989-83 <b>12</b>					
Eng. Code "G54B-T" 1983-89 (cont.)					
<b>V A L V E  T R A I N</b>	<b>QTY</b> 4	<b>ROCKER PARTS (cont.)</b> Arm	<b>YEARS</b> 85	<b>PART NO.</b> <b>R-958</b>	<b>DESCRIPTION</b> Exh.; From 6/85; w/o Intercooler
	<b>QTY</b> 4	<b>VALVE</b> Exhaust	<b>YEARS</b> 87-85	<b>PART NO.</b> <b>V-2313</b> Std Only	<b>DESCRIPTION</b> Exc. Intercooled; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
	4	Exhaust	84	<b>V-2313</b> Std Only	From 5/84; Exc. Intercooled; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.
	4	Intake	87-85	<b>V-2312</b> Std Only	Exc. Intercooled; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
	4	Intake	84	<b>V-2312</b> Std Only	From 5/84; Exc. Intercooled; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.
	<b>QTY</b> 4	<b>VALVE GUIDE</b> Guide	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>VG-714</b>	<b>DESCRIPTION</b> Exh.; .3160" ID, 2.0500" O.A.L.
	4	Guide	89-83	<b>VG-715</b>	Int.; .3155" ID, 1.8500" O.A.L.
	<b>QTY</b> 8	<b>VALVE SPRING</b> Spring	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>VS-1461</b>	<b>DESCRIPTION</b> Exh. & Int.; 1.9600" Free Height
	8	Spring, Bulk	89-83	<b>VS-1461B</b>	Exh. & Int.; Carton of 250; 1.9600" Free Height
	<b>QTY</b> 8	<b>VALVE SEAL</b> Valve Stem Seal	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>ST-2083</b>	<b>DESCRIPTION</b> Exh. & Int.; Positive type; Rubber
	<b>QTY</b> 4	<b>VALVE SEAT</b> Int.	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>245-1875-51</b> Std Only	<b>DESCRIPTION</b> 1.8820" OD, 1.5750" ID, .3170" Depth
	<b>QTY</b> 16	<b>VALVE, MISC</b> Keeper	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>VK-232</b>	<b>DESCRIPTION</b>
8	Spring Insert	89-83	<b>259-821B</b>	.060"; Case hardened; Carton of 48	
<b>B L O C K</b>	<b>QTY</b> 4	<b>PISTON</b> Cast Piston	<b>YEARS</b> 87	<b>PART NO.</b> <b>12220P.75MM</b> .75-1.00MM	<b>DESCRIPTION</b> To 5/87; Use w/E-439KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.2mm CD, 22.0mm Pin Dia., Recessed Head .200" deep x 2.670" dia.
	4	Cast Piston	86-83	<b>12220P.75MM</b> .75-1.00MM	Use w/E-439KC ring set; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 35.2mm CD, 22.0mm Pin Dia., Recessed Head .200" deep x 2.670" dia.
	<b>QTY</b> 1	<b>RINGS</b> Premium Set	<b>YEARS</b> 89-84	<b>PART NO.</b> <b>E-439KC</b> Std-.50-.75-1.00-1.50MM	<b>DESCRIPTION</b> 2-1.50MM, 1-4.00MM
	1	Premium Set	83	<b>E-439KC</b> Std-.50-.75-1.00-1.50MM	From 6/83; 2-1.50MM, 1-4.00MM
	1	Premium Set	83	<b>E-425KC1.00MM</b> 1.00MM	To 5/83; 2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	89-84	<b>WE-439KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83	<b>WE-439KC</b> Std-.50-.75-1.00MM	From 6/83; 2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83	<b>WE-425KC</b> Std-.50-.75-1.00MM	To 5/83; 2-2.00MM, 1-4.00MM
	<b>QTY</b> 1	<b>ENGINE BEARINGS</b> Main Set	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>6618M</b> Std-.25-.50-.75MM	<b>DESCRIPTION</b>
	1	Rod Set	89-83	<b>4-66675P</b> Std-.25-.50-.75-1.00MM	
	1	Cam Set	89-83	<b>1858M</b> Std Only	
	1	Aux. Shaft Set	89-83	<b>1805M</b>	
	<b>QTY</b> 1	<b>OIL PUMP</b> Oil Pump	<b>YEARS</b> 89-84	<b>PART NO.</b> <b>224-41915</b>	<b>DESCRIPTION</b>
	1	Oil Pump	83	<b>224-41915</b>	From 2/83
	1	Oil Pump	83	<b>224-41914</b>	To 1/83
<b>QTY</b> 1	<b>GASKETS</b> Kit Gasket Set	<b>YEARS</b> 87-83	<b>PART NO.</b> <b>260-1201</b>	<b>DESCRIPTION</b> Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	89-83	<b>260-2513</b>	Replacement recommended	
<b>QTY</b> 1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	<b>YEARS</b> 89-83	<b>PART NO.</b> <b>381-8098</b>	<b>DESCRIPTION</b>	
<b>K I T S</b>	<b>RE-RING KIT</b>				
	<b>YEARS</b> 87-84	<b>DESCRIPTION</b> Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>PREMIUM KIT NO.</b> <b>205-871</b> <b>205-871M</b>	<b>ECONOMY KIT NO.</b> ----- -----
	83	From 6/83; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-871</b> <b>205-871M</b>	----- -----

# Mitsubishi Car

**13** 3.0L 2972cc SOHC V6 (12 Valve), 91.1mm Bore 1990-88  
Eng. Code "6G72" 1988-99

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-139	
1	Timing Belt Tensioner	90-88	222-195BT	
1	Timing Belt & Tensioner Set	90-88	BTS-139	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	90-88	R-1122	w/Rlr. lifters
2	Rocker Shaft	90-88	RS-699	Exh.
2	Rocker Shaft	90-88	RS-700	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-88	V-3952 Std Only	Nitrided stem; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Exhaust, Bulk	90-88	V-3952B Std Only	1 groove; Nitrided stem; Carton of 25; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Intake	90-88	V-2563 Std Only	Nitrided stem; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
6	Intake, Bulk	90-88	V-2563B Std Only	Nitrided stem; Carton of 25; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-88	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
6	Guide	90-88	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
6	Guide	90-88	VG-710	Int.; .3155" ID, 1.7280" O.A.L.
6	Guide, Bulk	90-88	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-88	VS-1461	Exh. & Int.; 1.9600" Free Height
12	Spring, Bulk	90-88	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-88	ST-2037	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	90-88	245-1562-69 Std Only	1.5695" OD, 1.2190" ID, .3170" Depth
6	Int.	90-88	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-88	VK-232	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	90	H834CP Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	89	H834CP Std.-50-.75-1.00-1.50MM	From 2/89; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	90	WH834CP Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	89	WH834CP Std.-50-.75-1.00-1.50MM	From 2/89; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90	6KH834CP Std.-50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89	6KH834CP Std.-50-.75-1.00MM	From 2/89; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-88	E-528KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-88	E-528X Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-88	WE-528KC Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7090M Std.-25-.50-.75MM	
1	Thrust Washer Set	90-88	1736AF Std Only	Position 3
1	Rod Set	90-88	6-1735CP Std.-25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	88	224-43651	Sigma
1	Pump Repair Kit	90-88	224-51385	

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# Mitsubishi Car

3.0L 2972cc SOHC V6 (12 Valve), 91.1mm Bore 1990-88 <b>13</b>					
Eng. Code "6G72" 1988-99 (cont.)					
QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	90-88	<b>260-1839</b>	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Head Bolt Set	90-88	<b>260-2516</b>	Replacement recommended	
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	90-88	<b>381-8090</b>	
<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>205-6882</b>	<b>205-1882</b>
	90-88	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6882M</b>	<b>205-1882M</b>
			Re-ring w/Mains		
	<b>OVERHAUL KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>BK-6301</b>	<b>----</b>
90	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block			
89	From 2/89; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	Block	<b>BK-6301</b>	<b>----</b>	

## Mitsubishi Minivans - See Mitsubishi Truck Mitsubishi SUV's - See Mitsubishi Truck Mitsubishi Truck (Includes Minivans and SUV's)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
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2.3L 2346cc SOHC Turbo-Diesel L4 91mm Bore (8 Valve) L/D Truck.....	1985-83	..... 2	3.0L 2972cc SOHC V6 91.1mm Bore (12 Valve) L/D Truck.....	1990-89	..... 5
2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve) L/D Truck.....	1990-87	..... 3	3.3L 3298cc OHV Turbo-Diesel L4 100mm Bore (8 Valve) L/D Truck.....	1987	..... 6
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Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G54B.....	2.6L 2555cc SOHC L4 91.1mm Bore (8 Valve) L/D Truck.....	4	4D55-T.....	2.3L 2346cc SOHC Turbo-Diesel L4 91mm Bore (8 Valve) L/D Truck.....	2
G63B.....	2.0L 1997cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	1	4G64.....	2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve) L/D Truck.....	3
G64B.....	2.4L 2351cc SOHC L4 86.5mm Bore (8 Valve) L/D Truck.....	3	6G72.....	3.0L 2972cc SOHC V6 91.1mm Bore (12 Valve) L/D Truck.....	5

2.0L 1997cc SOHC L4 (8 Valve), 85mm Bore 1989-83 <b>1</b>					
L/D Truck Eng. Code "G63B" 1983-89					
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	89-87	<b>222-158</b>	
	1	Timing Belt	86-83	<b>222-89</b>	
	1	Timing Belt Tensioner	89-84	<b>222-105BT</b>	
	1	Bal. Shaft Belt	89-87	<b>222-159</b>	
	1	Bal. Shaft Belt	86-83	<b>222-90</b>	
	1	Bal. Shaft Belt Tensioner	89-88	<b>222-161BT</b>	
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	89-85	<b>CS-817</b>	w/Hyd. followers
	1	Camshaft	84	<b>CS-817</b>	From 5/84; w/Hyd. followers
	8	Lifter	89-85	<b>HT-6000</b> Std Only	Hyd. lash adj.
	8	Lifter	84	<b>HT-6000</b> Std Only	From 5/84; Hyd. lash adj.
	8	Lifter, Bulk	89-85	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128
	8	Lifter, Bulk	84	<b>HT-6000B</b> Std Only	From 5/84; Hyd. lash adj.; Carton of 128
1	Prelube	89-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Arm	89-85	<b>R-958</b>	Exh. "C" 1-3
	4	Arm	84	<b>R-958</b>	Exh. "C" 1-3; From 5/84
	1	Rocker Shaft	89-85	<b>RS-658</b>	Exh.
	1	Rocker Shaft	89-85	<b>RS-659</b>	Int.

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# Mitsubishi Truck (Includes Minivans and SUV's)

**1** 2.0L 1997cc SOHC L4 (8 Valve), 85mm Bore 1989-83  
 (cont.) L/D Truck Eng. Code "G63B" 1983-89

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION	
1	Rocker Shaft	84	RS-658	Exh.; From 5/84	
1	Rocker Shaft	84	RS-659	Int.; From 5/84	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	89-84	V-3933 Std Only	Nitrided stem; 1.3780" Head Dia., .3126" Stem Dia., 4.2780" O.A.L.	
4	Intake	89-84	V-3953 Std Only	Jet valve assy.; .2270" Head Dia., .1676" Stem Dia., 3.6430" O.A.L.	
4	Intake	89-83	V-2331 Std Only	Chrome plated stem; 1.6930" Head Dia., .3137" Stem Dia., 4.3230" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	89-84	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.	
4	Guide	89-83	VG-715	Int.; .3155" ID, 1.8500" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	89-85	VS-1461	Exh. & Int.; 1.9600" Free Height	
8	Spring	84	VS-1461	Exh. & Int.; From 5/84; 1.9600" Free Height	
8	Spring, Bulk	89-85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height	
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 5/84; Carton of 250; 1.9600" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
4	Valve Stem Seal	89-84	ST-2083	Exh.; Positive type; Rubber	
4	Valve Stem Seal	89-84	ST-2037	Int.; Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	89-84	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth	
4	Int.	89-84	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	89-84	VK-232		
4	Spring Insert	89-84	259-821B	.060"; Case hardened; Carton of 48	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	89-87	E-455KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM	
1	Premium Set	86	E-455KC Std-.50-.75-1.00-1.50MM	From 5/86; 2-1.50MM, 1-4.00MM	
1	Premium Set	86	E-452KC Std-.75-1.00MM	To 4/86; 2-2.00MM, 1-4.00MM	
1	Premium Set	85-83	E-452KC Std-.75-1.00MM	2-2.00MM, 1-4.00MM	
1	Standard Set	89-87	E-455X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM	
1	Standard Set	86	E-455X Std-.50-.75-1.00-1.50MM	From 5/86; 2-1.50MM, 1-4.00MM	
1	Standard Set	86	E-452X Std-.50-.75-1.00MM	To 4/86; 2-2.00MM, 1-4.00MM	
1	Standard Set	85-83	E-452X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	89-87	WE-455KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	86	WE-455KC Std-.50-.75-1.00MM	From 5/86; 2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	86	WE-452KC Std-.50-.75-1.00MM	To 4/86; 2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	85-83	WE-452KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	89-87	WE-455X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	86	WE-455X Std-.50-.75-1.00MM	From 5/86; 2-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	89-83	5103M Std-.25-.50-.75MM		
1	Rod Set	89-83	4-3485CP Std-.25-.50-.75MM		
1	Bal. Shaft Set	89-83	1810M		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	89-83	260-1199	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-83	381-8099	Eng. Code "G63B"	
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	89-87	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-875 205-875M	205-375 205-375M
	86	To 4/86; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-874 205-874M	205-374 205-374M
86	From 5/86; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-875 205-875M	205-375 205-375M	

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# Mitsubishi Truck (Includes Minivans and SUV's)

2.0L 1997cc SOHC L4 (8 Valve), 85mm Bore 1989-83 <b>1</b>				
L/D Truck Eng. Code "G63B" 1983-89 (cont.)				
RE-RING KIT (cont.)			PREMIUM	ECONOMY
YEARS	DESCRIPTION		KIT NO.	KIT NO.
85-83	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	205-874 205-874M	205-374 205-374M
2.3L 2346cc SOHC Turbo-Diesel L4 (8 Valve), 91mm Bore 1985-83 <b>2</b>				
L/D Truck Eng. Code "4D55-T" 1983-85				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85-83	222-91	
1	Bal. Shaft Belt	85-83	222-92	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	85-83	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	85-83	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	85-83	ST-2037	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85-83	VK-232	
8	Spring Insert	85-83	259-821B	.060"; Case hardened; Carton of 48
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	85-84	4-68304Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	85-83	WE-596KC Std Only	1-2.50MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	85-83	6593M Std-.25-.50-.75MM	
1	Rod Set	85-83	4-66675P Std-.25-.50-.75-1.00MM	
2.4L 2351cc SOHC L4 (8 Valve), 86.5mm Bore 1990-87 <b>3</b>				
L/D Truck Eng. Codes "G64B" 1987-90, "4G64" 1990-96				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-87	222-124	
1	Timing Belt Tensioner	90-87	222-105BT	
1	Timing Belt & Tensioner Set	90-87	BTS-124	
1	Bal. Shaft Belt	90-87	222-159	
1	Bal. Shaft Belt Tensioner	90-88	222-161BT	
1	Bal. Shaft Belt Tensioner	87	222-161BT	From 5/87
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	90-87	HT-6000 Std Only	Hyd. lash adj.
8	Lifter, Bulk	90-87	HT-6000B Std Only	Hyd. lash adj.; Carton of 128
1	Prelube	90-87	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
2	Arm	89-87	R-958	Exh. "C" 1-3
1	Rocker Shaft	89-87	RS-658	Exh.
1	Rocker Shaft	89-87	RS-659	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	89-87	V-2660 Std Only	Chrome plated stem; 1.4960" Head Dia., .3126" Stem Dia., 4.1410" O.A.L.
4	Intake	89-87	V-2661 Std Only	Chrome plated stem; 1.8110" Head Dia., .3140" Stem Dia., 4.1909" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	89-87	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.
4	Guide	89-87	VG-715	Int.; .3155" ID, 1.8500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	90-87	VS-1461	Exh. & Int.; 1.9600" Free Height
8	Spring, Bulk	90-87	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
4	Valve Stem Seal	89-87	ST-2083	Exh.; Positive type; Rubber
4	Valve Stem Seal	89-87	ST-2037	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	90-87	245-1875-51 Std Only	1.8820" OD, 1.5750" ID, .3170" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	89-87	VK-232	
8	Spring Insert	89-87	259-821B	.060"; Case hardened; Carton of 48
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	E-524KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-87	E-524X Std Only	2-1.50MM, 1-4.00MM

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# Mitsubishi Truck (Includes Minivans and SUV's)

**3** 2.4L 2351cc SOHC L4 (8 Valve), 86.5mm Bore 1990-87  
(cont.) L/D Truck Eng. Codes "G64B" 1987-90, "4G64" 1990-96

BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK	
	4	Premium Single Cylinder Set	90-87	WE-524KC Std Only	2-1.50MM, 1-4.00MM		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	90-87	5103M Std-.25-.50-.75MM			
	1	Rod Set	90-87	4-3485CP Std-.25-.50-.75MM			
	1	Cam Set	90-87	1858M Std Only			
1	Bal. Shaft Set	90-87	1810M				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Screen Assy.	90	224-14282	Eng. Code "4G64"			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	90-87	260-1709	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	90	381-8099	Eng. Codes "4G64" & "G64B"			
1	Brass Block Plug Kit	89-87	381-8099	Eng. Code "G64B"			
KITS	RE-RING KIT				PREMIUM	ECONOMY	KITS
	YEARS	DESCRIPTION			KIT NO.	KIT NO.	
	90	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6335	205-1335	
			Re-ring w/Mains		205-6335M	205-1335M	
89-87	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6335	205-1335		
		Re-ring w/Mains		205-6335M	205-1335M		

**4** 2.6L 2555cc SOHC L4 (8 Valve), 91.1mm Bore 1989-83  
L/D Truck Eng. Code "G54B" 1983-89

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Complete Set	89-83	KT-1013S	Incl. sprockets, chain, tensioner & guides	
	1	Bal. Shaft Set	89-83	KT-1014S	Incl. sprockets, chain & guides	
	1	Timing Chain	89-83	222-3DR102	Double rlr.; 102 Links	
	1	Timing Chain Tensioner	89-83	222-49CT		
	1	Timing Chain Guide	89-83	222-31GP	Slack Side	
	1	Timing Chain Guide	89-83	222-30GP	Tension Side	
	1	Bal. Shaft Chain Guide	89-83	222-51GP	Lower	
	1	Bal. Shaft Chain Guide	89-83	222-64GP	R.H.	
	1	Crank Sprocket	89-83	223-407	Outer; Single row; 34 Teeth	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	89-85	CS-810		
	1	Camshaft	84	CS-810	From 5/84	
8	Lifter	89-83	HT-6000 Std Only	Hyd. lash adj.		
8	Lifter, Bulk	89-83	HT-6000B Std Only	Hyd. lash adj.; Carton of 128		
1	Prelube	89-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
4	Arm	89-85	R-958	Exh.		
4	Arm	84	R-958	Exh.; From 5/84		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	89-85	V-2313 Std Only	Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.		
4	Exhaust	84	V-2313 Std Only	From 5/84; Nitrided stem; 1.4961" Head Dia., .3126" Stem Dia., 4.1730" O.A.L.		
4	Intake	89-85	V-2312 Std Only	1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.		
4	Intake	84	V-2312 Std Only	From 5/84; 1.8110" Head Dia., .3135" Stem Dia., 4.2520" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
4	Guide	89-83	VG-714	Exh.; .3160" ID, 2.0500" O.A.L.		
4	Guide	89-83	VG-715	Int.; .3155" ID, 1.8500" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	89-85	VS-1461	Exh. & Int.; 1.9600" Free Height		
8	Spring	84	VS-1461	Exh. & Int.; From 5/84; 1.9600" Free Height		
8	Spring, Bulk	89-85	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height		
8	Spring, Bulk	84	VS-1461B	Exh. & Int.; From 5/84; Carton of 250; 1.9600" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	89-83	ST-2083	Exh. & Int.; Positive type; Rubber		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Int.	89-83	245-1875-51 Std Only	1.8820" OD, 1.5750" ID, .3170" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	89-83	VK-232			
8	Spring Insert	89-83	259-821B	.060"; Case hardened; Carton of 48		

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# Mitsubishi Truck (Includes Minivans and SUV's)

**2.6L 2555cc SOHC L4 (8 Valve), 91.1mm Bore 1989-83 4**

L/D Truck Eng. Code "G54B" 1983-89 (cont.)

2.6L 2555cc SOHC L4 (8 Valve), 91.1mm Bore 1989-83 4					
L/D Truck Eng. Code "G54B" 1983-89 (cont.)					
BLOCK	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston	89-83	<b>H605P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Flat Head
	4	Cast Piston - Individual	89-83	<b>WH605P</b> Std.-50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.395" CD, .8662" Pin Dia., Flat Head
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	89-84	<b>E-439KC</b> Std.-50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	1	Premium Set	83	<b>E-439KC</b> Std.-50-.75-1.00-1.50MM	From 6/83; 2-1.50MM, 1-4.00MM
	1	Premium Set	83	<b>E-425KC1.00MM</b> 1.00MM	To 5/83; 2-2.00MM, 1-4.00MM
	1	Standard Set	89-84	<b>E-439X</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	Standard Set	83	<b>E-439X</b> Std.-50-.75-1.00MM	From 6/83; 2-1.50MM, 1-4.00MM
	1	Standard Set	83	<b>E-425X1.00MM</b> 1.00MM	To 5/83; 2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	89-84	<b>WE-439KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83	<b>WE-439KC</b> Std.-50-.75-1.00MM	From 6/83; 2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83	<b>WE-425KC</b> Std.-50-.75-1.00MM	To 5/83; 2-2.00MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	89-83	<b>6618M</b> Std.-25-.50-.75MM	
1	Rod Set	89-83	<b>4-66675P</b> Std.-25-.50-.75-1.00MM		
1	Cam Set	89-83	<b>1858M</b> Std Only		
1	Aux. Shaft Set	89-83	<b>1805M</b>	Rear bal. shaft; Aux. shaft	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	89-83	<b>224-41914</b>		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	89-83	<b>260-1155</b>	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
1	Head Bolt Set	89-83	<b>260-2513</b>	Replacement recommended	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	89-83	<b>381-8098</b>	Eng. Code "G54B"	
KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			
	89-84	Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-750</b> <b>205-750M</b>	<b>205-250</b> <b>205-250M</b>
	83	To 5/83; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-745</b> <b>205-745M</b>	<b>205-245</b> <b>205-245M</b>
	83	From 6/83; Exh. pipe packing not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains	<b>205-750</b> <b>205-750M</b>	<b>205-250</b> <b>205-250M</b>
	<b>3.0L 2972cc SOHC V6 (12 Valve), 91.1mm Bore 1990-89 5</b>				
L/D Truck Eng. Code "6G72" 1989-95					
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Belt	90-89	<b>222-139</b>	
	1	Timing Belt Tensioner	90-89	<b>222-195BT</b>	
	1	Timing Belt & Tensioner Set	90-89	<b>BTS-139</b>	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	90-89	<b>CS-865</b>	L.H. Front; 16" length w/gear; Hyd. rlr.
	1	Camshaft	90-89	<b>CS-864</b>	R.H. Rear; 14.5" length; Hyd. rlr.
	12	Lifter	90-89	<b>HT-6000</b> Std Only	Hyd. lash adj.
	12	Lifter, Bulk	90-89	<b>HT-6000B</b> Std Only	Hyd. lash adj.; Carton of 128
	1	Prelube	90-89	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit	90-89	<b>KC-865</b>	Front; Incl. 16" L.H. Front rlr. camshaft w/gear; Incl. (1) CS-865, (6) HT-6000, (1) 55-403B
	1	Cam/Lifter Kit	90-89	<b>KC-866</b>	Front & Rear; Incl. 14.5" R.H. Rear & 16" L.H. Front rlr. camshafts w/gear; Incl. (1) CS-864, (1) CS-865, (6) HT-6000, (1) 55-403B
	1	Cam/Lifter Kit	90-89	<b>KC-864</b>	Rear; Incl. 14.5" R.H. Rear rlr. camshaft w/gear; Incl. (1) CS-864, (6) HT-6000, (1) 55-403B
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm	90-89	<b>R-1003</b>	w/Mech. lifters	
12	Arm	90-89	<b>R-1122</b>	w/Rlr. lifters	
2	Rocker Shaft	90-89	<b>RS-699</b>	Exh.	

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# Mitsubishi Truck (Includes Minivans and SUV's)

**5** 3.0L 2972cc SOHC V6 (12 Valve), 91.1mm Bore 1990-89  
(cont.) L/D Truck Eng. Code "6G72" 1989-95

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
2	Rocker Shaft	90-89	RS-700	Int.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust	90-89	V-3952 Std Only	Nitrided stem; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Exhaust, Bulk	90-89	V-3952B Std Only	1 groove; Nitrided stem; Carton of 25; 1.3750" Head Dia., .3125" Stem Dia., 4.0430" O.A.L.
6	Intake	90-89	V-2563 Std Only	Nitrided stem; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
6	Intake, Bulk	90-89	V-2563B Std Only	Nitrided stem; Carton of 25; 1.6920" Head Dia., .3133" Stem Dia., 4.0660" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	90-89	VG-13152	Exh.; w/cir-clip & groove; .002" O/S OD; .3150" ID, 1.8900" O.A.L.
6	Guide	90-89	VG-1315	Exh.; w/cir-clip & groove; .3150" ID, 1.8900" O.A.L.
6	Guide, Bulk	90-89	VG-1315B	Exh.; w/cir-clip & groove; Carton of 50; .3150" ID, 1.8900" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring	90-89	VS-1461	Exh. & Int.; 1.9600" Free Height
12	Spring, Bulk	90-89	VS-1461B	Exh. & Int.; Carton of 250; 1.9600" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	90-89	ST-2037	Positive type; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	90-89	245-1562-69 Std Only	1.5695" OD, 1.2190" ID, .3170" Depth
6	Int.	90-89	245-1750-61 Std Only	1.7570" OD, 1.4450" ID, .3100" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	90-89	VK-232	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston	90	H834CP Std-.50-.75-1.00-1.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston	89	H834CP Std-.50-.75-1.00-1.50MM	From 2/89; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual	89	WH834CP Std-.50-.75-1.00-1.50MM	From 2/89; Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, .8661" Pin Dia., Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	90	6KH834CP Std-.50-.75-1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings	89	6KH834CP Std-.50-.75-1.00MM	From 2/89; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 1.252" CD, Recessed Head .125" deep w/2 valve reliefs; Repl. both L.H. & R.H. pistons; <b>DurOshield® skirt coated piston</b>
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-89	E-528KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	90-89	E-528X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-89	WE-528KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-89	7090M Std-.25-.50-.75MM	
1	Thrust Washer Set	90-89	1736AF Std Only	Position 3
1	Rod Set	90-89	6-1735CP Std-.25-.50-.75MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90	224-43651	Mighty Max, Montero
1	Oil Pump	89	224-43651	
1	Pump Repair Kit	90	224-51385	Montero; Pickup
1	Pump Repair Kit	89	224-51385	From 5/88; Montero
1	Pump Repair Kit	89	224-51385	From 6/89; Pickup
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-89	260-1839	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl. Replacement recommended
1	Head Bolt Set	90-89	260-2516	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	90-89	381-8090	

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# Mitsubishi Truck (Includes Minivans and SUV's)

3.0L 2972cc SOHC V6 (12 Valve), 91.1mm Bore 1990-89 <b>5</b>				
L/D Truck Eng. Code "6G72" 1989-95 (cont.)				
<b>K I T S</b>	<b>RE-RING KIT</b>		<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>
	90-89	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	205-6882 205-6882M	205-1882 205-1882M
		Re-ring Re-ring w/Mains		
	<b>OVERHAUL KIT</b>		<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>	<b>KIT NO.</b>	<b>KIT NO.</b>
	90-89	To 11/92; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. H834CP piston	BKP-6301 BK-6301	----- -----
		Block w/Pump & Freeze Plugs Block		
<b>3.3L 3298cc OHV Turbo-Diesel L4 (8 Valve), 100mm Bore 1987 <b>6</b></b>				
L/D Truck Eng. Code "4D31-T" 1987-91				
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Pin Bushing Set	87	4-67284Y	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	87	7081M	Std.-25-.50MM
1	Thrust Washer Set	87	1601BF	Std Only

## Nissan Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.2L 1171cc OHV L4 73mm Bore (8 Valve) .....	1973-71	..... 1	2.0L 1952cc SOHC L4 85mm Bore (8 Valve).....	1981-74	..... 18
1.2L 1189cc OHV L4 73mm Bore (8 Valve) .....	1965-59	..... 2	2.0L 1952cc SOHC L4 85mm Bore (8 Valve).....	1981-80	..... 19
1.2L 1237cc OHV L4 75mm Bore (8 Valve) .....	1982-80	..... 3	2.0L 1974cc SOHC L4 84.5mm Bore (8 Valve).....	1989-82	..... 20
1.3L 1288cc OHV L4 73mm Bore (8 Valve) .....	1974	..... 4	2.0L 1982cc OHV L4 87.2mm Bore (8 Valve) .....	1970-67	..... 21
1.3L 1299cc OHV L4 73mm Bore (8 Valve) .....	1967-65	..... 5	2.2L 2187cc SOHC L4 87mm Bore (8 Valve).....	1983-82	..... 22
1.4L 1397cc OHV L4 76mm Bore (8 Valve) .....	1982-75	..... 6	2.4L 2389cc SOHC L4 89mm Bore (12 Valve).....	1990-89	..... 23
1.5L 1487cc OHV L4 76mm Bore (8 Valve) .....	1982-79	..... 7	2.4L 2393cc SOHC L6 83mm Bore (12 Valve).....	1984-70	..... 24
1.5L 1487cc SOHC L4 76mm Bore (8 Valve).....	1983-81	..... 8	2.6L 2565cc SOHC L6 83mm Bore (12 Valve).....	1974	..... 25
1.5L 1487cc SOHC Turbo L4 76mm Bore (8 Valve).....	1984-83	..... 9	2.8L 2753cc SOHC L6 86mm Bore (12 Valve).....	1983-75	..... 26
1.6L 1595cc SOHC L4 83mm Bore (8 Valve).....	1973-68	..... 10	2.8L 2753cc SOHC Turbo L6 86mm Bore (12 Valve).....	1983-81	..... 27
1.6L 1595cc OHV L4 87.2mm Bore (8 Valve) .....	1970-66	..... 11	2.8L 2793cc SOHC Diesel L6 84.5mm Bore (12 Valve).....	1983-81	..... 28
1.6L 1597cc SOHC L4 76mm Bore (8 Valve).....	1988-83	..... 12	3.0L 2960cc SOHC V6 87mm Bore (12 Valve) .....	1990-84	..... 29
1.6L 1597cc SOHC L4 76mm Bore (12 Valve).....	1990-89	..... 13	3.0L 2960cc DOHC V6 87mm Bore (24 Valve).....	1990	..... 30
1.7L 1680cc SOHC Diesel L4 80mm Bore (8 Valve).....	1986-83	..... 14	3.0L 2960cc DOHC Turbo V6 87mm Bore (24 Valve).....	1990	..... 31
1.8L 1770cc SOHC L4 85mm Bore (8 Valve).....	1974-73	..... 15	3.0L 2960cc SOHC Turbo V6 87mm Bore (12 Valve).....	1989-84	..... 32
1.8L 1809cc DOHC L4 83mm Bore (16 Valve) .....	1989-88	..... 16	4.5L 4494cc DOHC V8 93mm Bore (32 Valve).....	1990	..... 33
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## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
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A12A	1.2L 1237cc OHV L4 75mm Bore (8 Valve)	3	L24	2.4L 2393cc SOHC L6 83mm Bore (12 Valve)	24
A13	1.3L 1288cc OHV L4 73mm Bore (8 Valve)	4	L24E	2.4L 2393cc SOHC L6 83mm Bore (12 Valve)	24
A14	1.4L 1397cc OHV L4 76mm Bore (8 Valve)	6	L26	2.6L 2565cc SOHC L6 83mm Bore (12 Valve)	25
A15	1.5L 1487cc OHV L4 76mm Bore (8 Valve)	7	L28E	2.8L 2753cc SOHC L6 86mm Bore (12 Valve)	26
CA18DE	1.8L 1809cc DOHC L4 83mm Bore (16 Valve)	16	L28ET	2.8L 2753cc SOHC Turbo L6 86mm Bore (12 Valve)	27
CA18ET	1.8L 1809cc SOHC Turbo L4 83mm Bore (8 Valve)	17	R	1.6L 1595cc OHV L4 87.2mm Bore (8 Valve)	11
CA20E	2.0L 1974cc SOHC L4 84.5mm Bore (8 Valve)	20	SRLU	2.0L 1982cc OHV L4 87.2mm Bore (8 Valve)	21
CA20S	2.0L 1974cc SOHC L4 84.5mm Bore (8 Valve)	20	VE30DE	3.0L 2960cc DOHC V6 87mm Bore (24 Valve)	30
CD17	1.7L 1680cc SOHC Diesel L4 80mm Bore (8 Valve)	14	VG30	3.0L 2960cc SOHC V6 87mm Bore (12 Valve)	29
E1	1.2L 1189cc OHV L4 73mm Bore (8 Valve)	2	VG30D	3.0L 2960cc DOHC V6 87mm Bore (24 Valve)	30
E15	1.5L 1487cc SOHC L4 76mm Bore (8 Valve)	8	VG30DE	3.0L 2960cc DOHC V6 87mm Bore (24 Valve)	30
E15ET	1.5L 1487cc SOHC Turbo L4 76mm Bore (8 Valve)	9	VG30DETT	3.0L 2960cc DOHC Turbo V6 87mm Bore (24 Valve)	31
E15T	1.5L 1487cc SOHC Turbo L4 76mm Bore (8 Valve)	9	VG30DTT	3.0L 2960cc DOHC Turbo V6 87mm Bore (24 Valve)	31
E16	1.6L 1597cc SOHC L4 76mm Bore (8 Valve)	12	VG30E	3.0L 2960cc SOHC V6 87mm Bore (12 Valve)	29
E16I	1.6L 1597cc SOHC L4 76mm Bore (8 Valve)	12	VG30T	3.0L 2960cc SOHC Turbo V6 87mm Bore (12 Valve)	32
E16S	1.6L 1597cc SOHC L4 76mm Bore (8 Valve)	12	VH45DE	4.5L 4494cc DOHC V8 93mm Bore (32 Valve)	33
GA16I	1.6L 1597cc SOHC L4 76mm Bore (12 Valve)	13	VK45DE	4.5L 4494cc DOHC V8 93mm Bore (32 Valve)	33
J	1.3L 1299cc OHV L4 73mm Bore (8 Valve)	5	V30E	3.0L 2960cc SOHC V6 87mm Bore (12 Valve)	29
J13	1.3L 1299cc OHV L4 73mm Bore (8 Valve)	5	V30ET	3.0L 2960cc SOHC Turbo V6 87mm Bore (12 Valve)	32
KA24E	2.4L 2389cc SOHC L4 89mm Bore (12 Valve)	23	Z20E	2.0L 1952cc SOHC L4 85mm Bore (8 Valve)	19
LD28	2.8L 2793cc SOHC Diesel L6 84.5mm Bore (12 Valve)	28	Z20S	2.0L 1952cc SOHC L4 85mm Bore (8 Valve)	19
L16	1.6L 1595cc SOHC L4 83mm Bore (8 Valve)	10	Z22E	2.2L 2187cc SOHC L4 87mm Bore (8 Valve)	22
L18	1.8L 1770cc SOHC L4 85mm Bore (8 Valve)	15			

### 1 1.2L 1171cc OHV L4 (8 Valve), 73mm Bore 1973-71 Eng. Code "A12" 1971-73

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	73-71	VK-215	
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	Main Set	73-71	7135M Std-.25MM
	1	Rod Set	73-71	4-67320CP Std Only
1	Cam Set	73-71	1592M Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	73-71	224-41908	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Brass Block Plug Kit	73-71	381-8025	

### 2 1.2L 1189cc OHV L4 (8 Valve), 73mm Bore 1965-59 Eng. Code "E1" 1959-65

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Cam Sprocket	65-61	223-470	40 Teeth
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	65-61	12012NP Std Only	Use w/E-368KC or E-368X ring set; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 32.5mm CD, 17.5mm Pin Dia., Flat Head
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	65-61	2056BF Std Only	Position 2

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<b>1.2L 1189cc OHV L4 (8 Valve), 73mm Bore 1965-59 2</b>					
Eng. Code "E1" 1959-65 (cont.)					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	(cont.) Rod Set	65-61	<b>4-4245CP</b> Std-.25-.50-1.00MM	4-4245CA 1.50MM avail. as unplated & resizeable	
1	Cam Set	65-61	<b>1734M</b> Std Only	Export only	
1	Cam Set	65-59	<b>1325M</b> Std Only		
<b>1.2L 1237cc OHV L4 (8 Valve), 75mm Bore 1982-80 3</b>					
Eng. Code "A12A" 1979-82					
4	<b>VALVE SEAT</b> Exh.	82-80	<b>245-1312-52</b> Std Only	1.087" ID top taper; 1.3195" OD, 1.0600" ID, .2400" Depth	
16	<b>VALVE, MISC</b> Keeper	82-80	<b>VK-215</b>		
<b>B</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Premium Single Cylinder Set	82-80	<b>WE-362KC</b> Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove
4	Standard Single Cylinder Set	82-80	<b>WE-362X</b> Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove	
<b>B</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	82-80	<b>7135M</b> Std-.25MM	
	1	Rod Set	82-80	<b>4-67320CP</b> Std Only	
1	Cam Set	82-80	<b>1592M</b> Std Only		
<b>B</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	82	<b>224-41908</b>	To 1/82
1	Oil Pump	81-80	<b>224-41908</b>		
<b>1.3L 1288cc OHV L4 (8 Valve), 73mm Bore 1974 4</b>					
Eng. Code "A13" 1972-74					
4	<b>VALVE SEAT</b> Exh.	74	<b>245-1312-52</b> Std Only	1.087" ID top taper; 1.3195" OD, 1.0600" ID, .2400" Depth	
16	<b>VALVE, MISC</b> Keeper	74	<b>VK-215</b>		
<b>B</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	74	<b>7135M</b> Std-.25MM	
	1	Rod Set	74	<b>4-67320CP</b> Std Only	
1	Cam Set	74	<b>1592M</b> Std Only		
<b>B</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	74	<b>224-41908</b>	
<b>B</b>	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Brass Block Plug Kit	74	<b>381-8025</b>	
<b>1.3L 1299cc OHV L4 (8 Valve), 73mm Bore 1967-65 5</b>					
Eng. Codes "J13" 1963-67					
1	<b>TIMING</b> Cam Sprocket	67-65	<b>223-470</b>	40 Teeth	
<b>B</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston	67-65	<b>12012NP</b> Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 32.5mm CD, 17.5mm Pin Dia., Flat Head
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	67-65	<b>2056BF</b> Std Only	Position 2	
1	Rod Set	67-65	<b>4-4245CP</b> Std-.25-.50-1.00MM	4-4245CA 1.50MM avail. as unplated & resizeable	
1	Cam Set	67-65	<b>1734M</b> Std Only	Export only	
1	Cam Set	67-65	<b>1325M</b> Std Only		
<b>1.4L 1397cc OHV L4 (8 Valve), 76mm Bore 1982-75 6</b>					
Eng. Code "A14" 1975-82					
4	<b>VALVE SEAT</b> Exh.	82-75	<b>245-1312-52</b> Std Only	1.087" ID top taper; 1.3195" OD, 1.0600" ID, .2400" Depth	
16	<b>VALVE, MISC</b> Keeper	82-75	<b>VK-215</b>		
<b>B</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Standard Set	82-81	<b>E-365X</b> Std-.75MM	Calif.; 2-2.00MM, 1-4.00MM
	1	Standard Set	80-75	<b>E-365X</b> Std-.75MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	82-81	<b>WE-365KC</b> Std Only	Calif.; 2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	82-81	<b>WE-426KC</b> Std-.75MM	Exc. Calif.; 1-1.20MM, 1-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	80-75	<b>WE-365KC</b> Std Only	2-2.00MM, 1-4.00MM
4	Standard Single Cylinder Set	82-81	<b>WE-365X</b> Std-.50-.75-1.00MM	Calif.; 2-2.00MM, 1-4.00MM	

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<b>6 1.4L 1397cc OHV L4 (8 Valve), 76mm Bore 1982-75</b> (cont.) Eng. Code "A14" 1975-82					
BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	4	Standard Single Cylinder Set	80-75	WE-365X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	82-75	7135M Std-.25MM	
	1	Rod Set	82-75	4-67320CP Std Only	
1	Cam Set	82-75	1592M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	82	224-41908	To 1/82	
1	Oil Pump	81-75	224-41908		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	82-75	381-8025		
<b>7 1.5L 1487cc OHV L4 (8 Valve), 76mm Bore 1982-79</b> Eng. Code "A15" 1979-82					
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	82-79	245-1312-52 Std Only	1.087" ID top taper; 1.3195" OD, 1.0600" ID, .2400" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	82-79	VK-215		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	82-80	12182P1.00MM 1.00MM	Cast; 1-1.20mm, 1-2.00mm, 1-4.00mm Ring Groove, 30.0mm CD, 19.0mm Pin Dia., Recessed Head	
4	Cast Piston - Individual	82-80	W12182P1.00MM 1.00MM	Cast; 1-1.20mm, 1-2.00mm, 1-4.00mm Ring Groove, 30.0mm CD, 19.0mm Pin Dia., Recessed Head	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
4	Premium Single Cylinder Set	82-79	WE-426KC Std-.75MM	1-1.20MM, 1-2.00MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	82-80	7135M Std-.25MM		
1	Rod Set	82-80	4-67320CP Std Only		
1	Cam Set	82-80	1592M Std Only		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	82	224-41908	To 1/82	
1	Oil Pump	81-79	224-41908		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	82-79	381-8025		
<b>8 1.5L 1487cc SOHC L4 (8 Valve), 76mm Bore 1983-81</b> Eng. Code "E15" 1982-83					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	83-81	222-77	
	1	Timing Belt Tensioner	83-81	222-75BT	
	1	Crank Sprocket	83-81	223-2923	20 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	83-82	R-935		
1	Rocker Shaft	83-82	RS-654		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	83-82	VS-1508	1.8790" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	83-82	ST-2070	Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	83-82	245-1562-66 Std Only	1.5695" OD, 1.2650" ID, .2800" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	83-82	VK-243		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	83-81	E-473KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	83-81	E-473X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83-81	WE-473KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	83-81	WE-473X Std-.50-.75MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	83-81	7210M Std-.25-.50MM		
1	Rod Set	83-81	4-66780CP Std-.25-.50-.75MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	83-82	260-1279	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	

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1.5L 1487cc SOHC L4 (8 Valve), 76mm Bore 1983-81 <b>8</b>					
Eng. Code "E15" 1982-83 (cont.)					
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	83-82	381-8068		
RE-RING KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
83-82	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6049	205-1049
1.5L 1487cc SOHC Turbo L4 (8 Valve), 76mm Bore 1984-83 <b>9</b>					
Eng. Codes "E15ET" 1983-84, "E15T" 1983-84					
VALVE TRAIN BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	84-83	222-77	
	1	Timing Belt Tensioner	84-83	222-75BT	
	1	Crank Sprocket	84-83	223-2923	20 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	4	Arm	84-83	R-935	
	1	Rocker Shaft	84-83	RS-654	
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	84-83	VS-1508	1.8790" Free Height
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	84-83	ST-2070	Positive type; Rubber
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	4	Int.	84-83	245-1562-66	Std Only 1.5695" OD, 1.2650" ID, .2800" Depth
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	16	Keeper	84-83	VK-243	
	BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.
1		Main Set	84-83	7210M	Std-.25-.50MM
1		Rod Set	84-83	4-66780CP	Std-.25-.50-.75MM
QTY		GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	84-83	260-1279	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	84-83	381-8068		
1.6L 1595cc SOHC L4 (8 Valve), 83mm Bore 1973-68 <b>10</b>					
Eng. Code "L16" 1968-73					
VALVE TRAIN BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain Tensioner	73-68	222-7CT	
	1	Crank Sprocket	73-68	223-463	20 Teeth
	1	Cam Sprocket	73	223-462	510; 40 Teeth
	1	Cam Sprocket	72-68	223-462	40 Teeth
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	73-68	VG-734	.3153" ID, 2.3250" O.A.L.
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	73-68	VS-754	Inner; 1.7800" Free Height
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	73-68	ST-2034	Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	73-72	245-1812-50	Std Only From 9/72; 1.8195" OD, 1.4900" ID, .3070" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	73-68	VK-215		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	73-68	E-366KC	Std Only 2-2.00MM, 1-4.00MM
	1	Standard Set	73-68	E-366X	Std Only 2-2.00MM, 1-4.00MM
	4	Standard Single Cylinder Set	73-68	WE-366X	Std Only 2-2.00MM, 1-4.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	73-68	7137M	Std-.25MM	
1	Rod Set	73-68	4-67230CP	Std-.25-.50-.75-1.00MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	73-68	224-41901		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	73-68	260-1060	Premium valve stem seals incl.	

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10 1.6L 1595cc SOHC L4 (8 Valve), 83mm Bore 1973-68 (cont.) Eng. Code "L16" 1968-73								
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Steel Block Plug Kit	73-69	381-4036					
RE-RING KIT							PREMIUM	ECONOMY
YEARS	DESCRIPTION			Re-ring	KIT NO.	KIT NO.		
73-68	Premium valve stem seals incl.				----	205-311		
11 1.6L 1595cc OHV L4 (8 Valve), 87.2mm Bore 1970-66 Eng. Code "R16" 1966-70								
QTY	RINGS	YEARS	PART NO.	DESCRIPTION				
1	Standard Set	70-66	E-577X Std.-.75MM	1-2.00MM, 1-2.50MM, 1-4.00MM				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION				
1	Rod Set	70-66	4-67015CP Std.-.25-.50MM					
1	Cam Set	70-66	1570M Std Only					
12 1.6L 1597cc SOHC L4 (8 Valve), 76mm Bore 1988-83 Eng. Codes "E16" 1983-87, "E16I" 1986-88, "E16S" 1986-88								
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION			
	1	Timing Belt	88-83	222-77				
	1	Timing Belt Tensioner	88-83	222-75BT				
	1	Crank Sprocket	88-83	223-2923	20 Teeth			
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION			
	8	Arm	88-83	R-935				
	1	Rocker Shaft	88-83	RS-654				
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION			
	4	Exhaust	87-83	V-2325 Std Only	Nitrided stem; 1.1830" Head Dia., .2740" Stem Dia., 4.5700" O.A.L.			
	4	Intake	87-83	V-2316 Std Only	Nitrided stem; 1.4560" Head Dia., .2747" Stem Dia., 4.5940" O.A.L.			
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION			
	8	Spring	87-83	VS-1508	1.8790" Free Height			
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION			
	8	Valve Stem Seal	88-83	ST-2070	Positive type; Rubber			
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION			
	4	Int.	87-83	245-1562-66 Std Only	1.5695" OD, 1.2650" ID, .2800" Depth			
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION				
16	Keeper	88-83	VK-243					
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION			
	1	Premium Set	88-83	E-473KC Std.-.50-.75MM	2-1.50MM, 1-4.00MM			
	1	Standard Set	88-83	E-473X Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM			
	4	Premium Single Cylinder Set	88-83	WE-473KC Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM			
	4	Standard Single Cylinder Set	88-83	WE-473X Std.-.50-.75MM	2-1.50MM, 1-4.00MM			
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
	1	Main Set	88-83	7210M Std.-.25-.50MM				
	1	Rod Set	88-83	4-66780CP Std.-.25-.50-.75MM				
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
	1	Kit Gasket Set	88-86	260-1490	Eng. Codes "E16I" & "E16S"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Kit Gasket Set	87-83	260-1279	Eng. Code "E16"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.				
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit	88-83	381-8068					
KITS	RE-RING KIT							
	YEARS	DESCRIPTION			Re-ring	PREMIUM KIT NO.	ECONOMY KIT NO.	
	88-86	Eng. Codes "E16I" & "E16S"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.				205-6167	205-1167	
87-83	Eng. Code "E16"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			Re-ring	205-6049	205-1049		
13 1.6L 1597cc SOHC L4 (12 Valve), 76mm Bore 1990-89 Eng. Code "GA16I" 1989-90								
QTY	TIMING	YEARS	PART NO.	DESCRIPTION				
1	Timing Chain	90-89	222-S92T2X	92 Links				
1	Timing Chain Tensioner	90-89	222-179CT					

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## 1.6L 1597cc SOHC L4 (12 Valve), 76mm Bore 1990-89 **13**

Eng. Code "GA16I" 1989-90 (cont.)

VALVE TRAIN	QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	1	Timing Chain Guide	90-89	222-181GP	Slack Side
	1	Timing Chain Guide	90-89	222-180GP	Tension Side
	1	Crank Sprocket	90-89	223-693	19 Teeth
	1	Cam Sprocket	90-89	223-686	38 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	1	Rocker Shaft	90-89	RS-728	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	4	Exhaust	90-89	V-2594X Std Only	Nitrided stem; 1.2953" Head Dia., .2585" Stem Dia., 4.5748" O.A.L.
	8	Intake	90-89	V-2596 Std Only	Nitrided stem; 1.1457" Head Dia., .2350" Stem Dia., 4.4705" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	4	Valve Stem Seal	90-89	ST-2101	Exh.; Positive type; Rubber
	4	Valve Stem Seal	90-89	ST-2081	Int.; Positive type; Rubber
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	16	Keeper	90-89	VK-250	
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90-89	E-561KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
	1	Standard Set	90-89	E-561X Std Only	2-1.50MM, 1-2.80MM
	4	Premium Single Cylinder Set	90-89	WE-561KC Std Only	2-1.50MM, 1-2.80MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90-89	7257M Std-.25-.50MM	
1	Thrust Washer Set	90-89	4693F Std Only	Position 3	
1	Rod Set	90-89	4-66780CP Std-.25-.50-.75MM		
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	90-89	224-43622	
	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
	1	Kit Gasket Set	90-89	260-1763	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	90-89	381-8094	
<b>OVERHAUL KIT</b>					
	YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
90-89	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block		BKP-6303 BK-6303	----- -----
<b>1.7L 1680cc SOHC Diesel L4 (8 Valve), 80mm Bore 1986-83 <b>14</b></b>					
Eng. Code "CD17" 1983-87					
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	4	Guide	86-83	VG-743	Int.; .2760" ID, 1.7700" O.A.L.
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	86-83	ST-2069	Positive type; Rubber
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
	4	Exh.	86-83	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	86-83	E-852KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	86-83	7012M Std-.25-.50MM	
	1	Rod Set	86-83	4-1245CP Std-.25-.50-.75MM	
<b>1.8L 1770cc SOHC L4 (8 Valve), 85mm Bore 1974-73 <b>15</b></b>					
Eng. Code "L18" 1973-74					
	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain Tensioner	74-73	222-7CT	
	1	Crank Sprocket	74-73	223-463	20 Teeth
	1	Cam Sprocket	74-73	223-462	40 Teeth
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	8	Follower Guide	74-73	MR-1895	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	74-73	VG-734	.3153" ID, 2.3250" O.A.L.
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
	8	Spring	74-73	VS-754	Inner; 1.7800" Free Height

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## 15 1.8L 1770cc SOHC L4 (8 Valve), 85mm Bore 1974-73

(cont.) Eng. Code "L18" 1973-74

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	74-73	ST-2034	Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	74-73	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth	
4	Int.	74-73	245-1812-50 Std Only	1.8195" OD, 1.4900" ID, .3070" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	74-73	VK-215		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Cast Piston	74-73	12159P.75MM .75MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 38.3mm CD, 21.0mm Pin Dia., Recessed Head 1.30mm deep x 73.5mm dia. - 9.5:1 C.R.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	74-73	E-360KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
1	Standard Set	74-73	E-360X Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	74-73	WE-360KC Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	74-73	WE-360X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	74-73	7137M Std-.25MM		
1	Rod Set	74-73	4-67230CP Std-.25-.50-.75-1.00MM		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	74-73	224-41901		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	74-73	260-1060	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Steel Block Plug Kit	74-73	381-4036		
<b>RE-RING KIT</b>				<b>PREMIUM</b>	<b>ECONOMY</b>
YEARS	DESCRIPTION			<b>KIT NO.</b>	<b>KIT NO.</b>
74-73	Premium valve stem seals incl.		Re-ring	205-812	205-312

## 16 1.8L 1809cc DOHC L4 (16 Valve), 83mm Bore 1989-88

Eng. Code "CA18DE" 1988-90

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	89-88	HT-2277 Std Only	Hyd. flat lifter
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	89-88	V-4155 Std Only	1.1024" Head Dia., .2343" Stem Dia., 3.5160" O.A.L.
8	Intake	89-88	V-4070 Std Only	Chrome plated stem; 1.3430" Head Dia., .2350" Stem Dia., 3.4990" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	89-88	ST-2081	Positive type; Rubber
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	89-88	WE-518KC Std Only	2-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	89-88	7012M Std-.25-.50MM	
1	Rod Set	89-88	4-1245CP Std-.25-.50-.75MM	

## 17 1.8L 1809cc SOHC Turbo L4 (8 Valve), 83mm Bore 1987-84

Eng. Code "CA18ET" 1984-87

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	87-84	222-100	
1	Crank Sprocket	87-84	223-2928	20 Teeth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	87-84	VG-743	Int.; .2760" ID, 1.7700" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	87-84	VS-876	Inner; 1.7550" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	87-84	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	87-84	VK-243	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	86-84	WE-518KC Std Only	2-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	86-84	7012M Std-.25-.50MM	

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## 1.8L 1809cc SOHC Turbo L4 (8 Valve), 83mm Bore 1987-84 **17**

Eng. Code "CA18ET" 1984-87 (cont.)

QTY	ENGINE BEARINGS <small>(cont.)</small>	YEARS	PART NO.	DESCRIPTION
1	Rod Set	86-84	<b>4-1245CP</b> Std-.25-.50-.75MM	

## 2.0L 1952cc SOHC L4 (8 Valve), 85mm Bore 1981-74 **18**

Eng. Code "L20B" 1974-79

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Chain Tensioner	81-74	<b>222-7CT</b>		
1	Crank Sprocket	81-74	<b>223-463</b>	20 Teeth	
1	Cam Sprocket	81-74	<b>223-462</b>	40 Teeth	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
8	Follower Guide	80-77	<b>MR-1895</b>	200SX	
8	Follower Guide	76-74	<b>MR-1895</b>	610	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	81-74	<b>VG-734</b>	.3153" ID, 2.3250" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	81-74	<b>VS-754</b>	Inner; 1.7800" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	81-74	<b>ST-2034</b>	Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Exh.	81-74	<b>245-1500-54</b> Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth	
4	Int.	81-74	<b>245-1812-50</b> Std Only	1.8195" OD, 1.4900" ID, .3070" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	81-74	<b>VK-215</b>		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	81-74	<b>E-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
1	Standard Set	81-74	<b>E-360X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	81-74	<b>WE-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	81-74	<b>WE-360X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	80-74	<b>7139M</b> Std-.25-.50-.75MM		
1	Rod Set	80-74	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM		
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	81	<b>224-41901</b>	To 6/81	
1	Oil Pump	80-74	<b>224-41901</b>		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	79-77	<b>260-1159</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	76-74	<b>260-1060</b>	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	81-74	<b>381-8026</b>		
RE-RING KIT				<i>PREMIUM</i>	<i>ECONOMY</i>
YEARS	DESCRIPTION			<i>KIT NO.</i>	<i>KIT NO.</i>
79-77	Premium valve stem seals incl.	Re-ring		<b>205-843</b>	<b>205-343</b>
76-74	Premium valve stem seals incl.	Re-ring		<b>205-812</b>	<b>205-312</b>

## 2.0L 1952cc SOHC L4 (8 Valve), 85mm Bore 1981-80 **19**

Eng. Codes "Z20E" 1980-81, "Z20S" 1980-81

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain	81-80	<b>222-3DR102</b>	Double rlr.; 102 Links
1	Timing Chain Tensioner	81-80	<b>222-7CT</b>	
1	Crank Sprocket	81-80	<b>223-463</b>	20 Teeth
1	Cam Sprocket	81-80	<b>223-462</b>	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	81-80	<b>CS-755</b>	
1	Prelube	81-80	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
4	Arm	81-80	<b>R-934</b>	2-4
1	Rocker Shaft	81-80	<b>RS-653</b>	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	81-80	<b>V-2249</b> Std Only	Nitrided stem; 1.5000" Head Dia., .3125" Stem Dia., 4.9350" O.A.L.

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## 19 2.0L 1952cc SOHC L4 (8 Valve), 85mm Bore 1981-80

(cont.) Eng. Codes "Z20E" 1980-81, "Z20S" 1980-81

QTY	VALVE (cont.)	YEARS	PART NO.	DESCRIPTION
4	Intake	81-80	V-2250 Std Only	Nitrided stem; 1.6580" Head Dia., .3140" Stem Dia., 4.8900" O.A.L.
8	VALVE GUIDE Guide	81-80	VG-760	.3154" ID, 2.6600" O.A.L.
8	VALVE SPRING Spring	81-80	VS-876	Inner; 1.7550" Free Height
8	VALVE SEAL Valve Stem Seal	81-80	ST-2034	Positive type; Viton®
4	VALVE SEAT Int.	81-80	245-1812-54 Std Only	1.8195" OD, 1.4050" ID, .3150" Depth
16	VALVE, MISC Keeper	81-80	VK-215	DESCRIPTION
1	RINGS Premium Set	81-80	E-455KC Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	81-80	E-455X Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	81-80	WE-455KC Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Standard Single Cylinder Set	81-80	WE-455X Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	ENGINE BEARINGS Main Set	81-80	7139M Std-.25-.50-.75MM	DESCRIPTION
1	Rod Set	81-80	4-67230CP Std-.25-.50-.75-1.00MM	
1	Cam Set	81-80	1865M Std Only	
1	OIL PUMP Oil Pump	81	224-41901	To 6/81
1	Oil Pump	80	224-41901	
1	FREEZE PLUGS Brass Block Plug Kit	81	381-8093	Eng. Code "Z20S"

## 20 2.0L 1974cc SOHC L4 (8 Valve), 84.5mm Bore 1989-82

Eng. Codes "CA20E" 1984-89, "CA20S" 1982-86

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	89-82	222-78	
1	Crank Sprocket	89-82	223-2928	20 Teeth
8	CAMSHAFT/LIFTER Lifter	89-84	HT-6011 Std Only	DESCRIPTION
8	ROCKER PARTS Arm	89-87	R-1013	Stanza; Sedan & Hatchback
8	Arm	88-87	R-1013	200SX
8	Arm	86	R-1013	From 2/86; 200SX, Stanza
4	VALVE Exhaust	89-82	V-2326 Std Only	DESCRIPTION
4	Intake	89-84	V-2572 Std Only	Nitrided stem; 1.3780" Head Dia., .2740" Stem Dia., 4.2520" O.A.L. 1.6200" Head Dia., .2745" Stem Dia., 4.2160" O.A.L.
4	VALVE GUIDE Guide	89-82	VG-743	DESCRIPTION
8	VALVE SPRING Spring	89-82	VS-876	Inner; 1.7550" Free Height
8	VALVE SEAL Valve Stem Seal	89-82	ST-2069	DESCRIPTION
4	VALVE SEAT Exh.	89-84	245-1500-54 Std Only	Positive type; Rubber
16	VALVE, MISC Keeper	89-82	VK-243	DESCRIPTION
1	RINGS Standard Set	88-87	E-474X Std Only	DESCRIPTION
1	Standard Set	86-84	E-474X Std Only	2-1.50MM, 1-4.00MM
1	Standard Set	83-82	E-474X Std Only	Exc. 200SX; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	89	WE-520KC Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	88-87	WE-474KC Std Only	Stanza; 2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	86-84	WE-474KC Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	83-82	WE-474KC Std Only	Exc. 200SX; 2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	83-82	WE-474KC Std Only	2-1.50MM, 1-4.00MM

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2.0L 1974cc SOHC L4 (8 Valve), 84.5mm Bore 1989-82 <b>20</b>					
Eng. Codes "CA20E" 1984-89, "CA20S" 1982-86 (cont.)					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	88-82	7012M	Std-.25-.50MM	
1	Rod Set	88-82	4-1245CP	Std-.25-.50-.75MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-82	381-8094		
2.0L 1982cc OHV L4 (8 Valve), 87.2mm Bore 1970-67 <b>21</b>					
Eng. Code "U20" 1967-70					
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	1	Pin Bushing Set	70-67	4-67019Y	
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Standard Set	70-67	E-577X	Std-.50-.75MM 1-2.00MM, 1-2.50MM, 1-4.00MM
BLOCK	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	70-67	7138M	Std-.25-.50MM
	1	Rod Set	70-67	4-67015CP	Std-.25-.50MM
1	Cam Set	70-67	1570M	Std Only	
2.2L 2187cc SOHC L4 (8 Valve), 87mm Bore 1983-82 <b>22</b>					
Eng. Code "Z22E" 1982-83					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Chain	83-82	222-3DR102	Double rlr.; 102 Links
	1	Timing Chain Tensioner	83-82	222-7CT	
	1	Crank Sprocket	83-82	223-463	20 Teeth
	1	Cam Sprocket	83-82	223-462	40 Teeth
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	1	Camshaft	83-82	CS-755	
	1	Prelube	83-82	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	4	Arm	83-82	R-934	Exh.
	1	Rocker Shaft	83-82	RS-653	Int.
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	4	Exhaust	83-82	V-2249	Std Only Nitrided stem; 1.5000" Head Dia., .3125" Stem Dia., 4.9350" O.A.L.
	4	Intake	83-82	V-2250	Std Only Nitrided stem; 1.6580" Head Dia., .3140" Stem Dia., 4.8900" O.A.L.
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
	8	Guide	83-82	VG-760	.3154" ID, 2.6600" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	83-82	VS-876	Inner; 1.7550" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	83-82	ST-2034	Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	83-82	245-1812-54	Std Only 1.8195" OD, 1.4050" ID, .3150" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	83-82	VK-215		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	83-82	E-475KC	Std-.50-.75MM 2-1.50MM, 1-4.00MM
	1	Standard Set	83-82	E-475X	Std-.50-.75-1.00MM 2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83-82	WE-475KC	Std-.50-.75MM 2-1.50MM, 1-4.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	83-82	7139M	Std-.25-.50-.75MM
	1	Rod Set	83-82	4-67230CP	Std-.25-.50-.75- 1.00MM
	1	Cam Set	83-82	1865M	Std Only
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	83-82	224-41901	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	83-82	260-1282	Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	83-82	381-8093		
RE-RING KIT					
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.	
83-82	Premium valve stem seals incl.	Re-ring	205-6052	----	

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**23 2.4L 2389cc SOHC L4 (12 Valve), 89mm Bore 1990-89**  
Eng. Code "KA24E" 1989-92

QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
1	Timing Chain	90-89	222-SR102T2	102 Links		
1	Timing Chain Tensioner	90-89	222-176CT			
1	Timing Chain Guide	90-89	222-178GP	Slack Side		
1	Timing Chain Guide	90-89	222-177GP	Tension Side		
1	Crank Sprocket	90-89	223-699	18 Teeth		
1	Cam Sprocket	90-89	223-694	36 Teeth		
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	90-89	CS-1543	Lifter is part of rocker arm assy.		
1	Prelube	90-89	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
2	Arm	90-89	R-1020	Exh. 1-3; Rocker arm w/lifter (integral type)		
2	Arm	90-89	R-1021	Exh. 2-4; Rocker arm w/lifter (integral type)		
4	Arm	90-89	R-1018	Int. Front; Rocker arm w/lifter (integral type)		
4	Arm	90-89	R-1019	Int. Rear; Rocker arm w/lifter (integral type)		
1	Rocker Shaft	90-89	RS-726	Exh.		
1	Rocker Shaft	90-89	RS-727	Int.		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION		
4	Exhaust	90-89	V-2581X Std Only	Chrome plated stem; 1.5780" Head Dia., .3130" Stem Dia., 4.8140" O.A.L.		
8	Intake	90-89	V-2580 Std Only	Chrome plated stem; 1.3440" Head Dia., .2745" Stem Dia., 4.7770" O.A.L.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
4	Guide	90-89	VG-813	Exh.; .3100" ID, 2.2000" O.A.L.		
8	Guide	90-89	VG-812	Int.; .2760" ID, 2.0700" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
4	Spring	90-89	VS-944	Exh. Inner; 1.9000" Free Height		
4	Spring	90-89	VS-941	Exh. Outer; 2.1000" Free Height		
8	Spring	90-89	VS-942	Int. Inner; 2.1200" Free Height		
8	Spring	90-89	VS-943	Int. Outer; 2.2500" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
4	Valve Stem Seal	90-89	ST-2069	Exh.; Positive type; Rubber		
8	Valve Stem Seal	90-89	ST-2034	Int.; Positive type; Viton®		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Exh.	90-89	245-1687-56 Std Only	1.6945" OD, 1.3750" ID, .2950" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
24	Keeper	90-89	VK-249			
QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
1	Cast Piston Set w/Prem. Rings	90-89	4K13598PA Std-.50-1.00MM	Cast; 2-1.50mm, 1-2.80mm Ring Groove, 1.326" CD, 21.0mm Pin Dia., Recessed Head .030" deep x 3.072" dia.; Anodized top		
4	Pin Bushing	90-89	4464Y			
QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
1	Premium Set	90-89	E-559KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM		
4	Premium Single Cylinder Set	90-89	WE-559KC Std Only	2-1.50MM, 1-2.80MM		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	90-89	7285M Std-.25-.50MM			
1	Rod Set	90-89	4-4460P Std-.25-.50MM			
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
1	Oil Pump	90	224-43637	Stanza		
1	Oil Pump	90-89	224-43451	240SX		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	90	260-1795	Stanza; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	90-89	260-1754	240SX; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-89	381-8093			
KITS	RE-RING KIT	YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	Stanza; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	90	Re-ring Re-ring w/Mains	205-6886 205-6886M	----- -----	
	240SX; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	90-89	Re-ring Re-ring w/Mains	205-6885 205-6885M	----- -----	

# Nissan Car

## 2.4L 2393cc SOHC L6 (12 Valve), 83mm Bore 1984-70 **24**

Eng. Codes "L24" 1970-73, "L24E" 1977-84

2.4L 2393cc SOHC L6 (12 Valve), 83mm Bore 1984-70 <b>24</b>					
Eng. Codes "L24" 1970-73, "L24E" 1977-84					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	1	Crank Sprocket	84-77	<b>223-463</b>	20 Teeth
	1	Crank Sprocket	73-70	<b>223-463</b>	20 Teeth
	1	Cam Sprocket	84-77	<b>223-462</b>	40 Teeth
	1	Cam Sprocket	73-70	<b>223-462</b>	40 Teeth
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Follower Guide	84-77	<b>MR-1895</b>	
	12	Follower Guide	73-70	<b>MR-1895</b>	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Guide	84-77	<b>VG-734</b>	.3153" ID, 2.3250" O.A.L.
	12	Guide	73-70	<b>VG-734</b>	.3153" ID, 2.3250" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	84-77	<b>VS-754</b>	Inner; 1.7800" Free Height
12	Spring	73-70	<b>VS-754</b>	Inner; 1.7800" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Valve Stem Seal	84-77	<b>ST-2034</b>	Positive type; Viton®	
12	Valve Stem Seal	73-70	<b>ST-2034</b>	Positive type; Viton®	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Exh.	84-77	<b>245-1500-54</b> Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	84-77	<b>VK-215</b>		
24	Keeper	73-70	<b>VK-215</b>		
BLOCK	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	84-82	<b>E-491KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
	1	Premium Set	81	<b>E-491KC</b> Std-.50-.75MM	From 7/81; 2-1.50MM, 1-4.00MM
	1	Standard Set	84-82	<b>E-491X</b> Std Only	2-1.50MM, 1-4.00MM
	1	Standard Set	81	<b>E-491X</b> Std Only	From 7/81; 2-1.50MM, 1-4.00MM
	6	Premium Single Cylinder Set	84-82	<b>WE-491KC</b> Std-.50MM	2-1.50MM, 1-4.00MM
	6	Premium Single Cylinder Set	81	<b>WE-491KC</b> Std-.50MM	From 7/81; 2-1.50MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	84-77	<b>7136M</b> Std-.25MM	
	1	Main Set	73-70	<b>7136M</b> Std-.25MM	
	1	Rod Set	82-77	<b>6-67230CP</b> Std-.25-.50-.75MM	
	1	Rod Set	73-70	<b>6-67230CP</b> Std-.25-.50-.75MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	83-81	<b>224-41901</b>		
1	Oil Pump	79-77	<b>224-41901</b>		
1	Oil Pump	73-70	<b>224-41901</b>		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	84-77	<b>381-8027</b>		
1	Brass Block Plug Kit	73-70	<b>381-8027</b>		
<b>2.6L 2565cc SOHC L6 (12 Valve), 83mm Bore 1974 <b>25</b></b>					
Eng. Code "L26" 1974					
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Crank Sprocket	74	<b>223-463</b>	20 Teeth
	1	Cam Sprocket	74	<b>223-462</b>	40 Teeth
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Follower Guide	74	<b>MR-1895</b>	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Guide	74	<b>VG-734</b>	.3153" ID, 2.3250" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Spring	74	<b>VS-754</b>	Inner; 1.7800" Free Height
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	12	Valve Stem Seal	74	<b>ST-2034</b>	Positive type; Viton®
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.	74	<b>245-1500-54</b> Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	74	<b>VK-215</b>		
BLOCK	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	74	<b>7136M</b> Std-.25MM	
1	Rod Set	74	<b>6-67230CP</b> Std-.25-.50-.75MM		

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## 25 2.6L 2565cc SOHC L6 (12 Valve), 83mm Bore 1974

(cont.) Eng. Code "L26" 1974

QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	74	224-41901	To 11/74
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	74	381-8027	

## 26 2.8L 2753cc SOHC L6 (12 Valve), 86mm Bore 1983-75

Eng. Code "L28E" 1975-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket	83-75	223-463	20 Teeth
1	Cam Sprocket	83-75	223-462	40 Teeth
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Follower Guide	83-75	MR-1895	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	83-75	VG-734	.3153" ID, 2.3250" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	83-75	VS-754	Inner; 1.7800" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	83-75	ST-2034	Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	83-75	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	83-75	VK-215	

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	80-75	12149P Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 38.3mm CD, 21.0mm Pin Dia., Recessed Head 3.10mm deep x 74.00mm dia. - 8.3:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	83-81	E-488KC Std Only	1-1.50MM, 1-2.00MM, 1-4.00MM
6	Premium Single Cylinder Set	83-81	WE-488KC Std Only	1-1.50MM, 1-2.00MM, 1-4.00MM
6	Standard Single Cylinder Set	80-75	WE-401X Std Only	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-75	7136M Std-.25MM	
1	Rod Set	83-75	6-67230CP Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	83-75	224-41901	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	83-75	381-8027	

## 27 2.8L 2753cc SOHC Turbo L6 (12 Valve), 86mm Bore 1983-81

Eng. Code "L28ET" 1981-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket	83-81	223-463	20 Teeth
1	Cam Sprocket	83-81	223-462	40 Teeth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	83-81	VG-734	.3153" ID, 2.3250" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	83-81	VS-754	Inner; 1.7800" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	83-81	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	83-81	VK-215	

QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	83-81	E-488KC Std Only	1-1.50MM, 1-2.00MM, 1-4.00MM
6	Premium Single Cylinder Set	83-81	WE-488KC Std Only	1-1.50MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-81	7136M Std-.25MM	
1	Rod Set	83-81	6-67230CP Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	83-81	224-41920	w/A/T
1	Oil Pump	83-81	224-41919	w/M/T
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	83-81	381-8027	



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## 2.8L 2793cc SOHC Diesel L6 (12 Valve), 84.5mm Bore 1983-81 **28** Eng. Code "LD28" 1981-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Sprocket	83-81	223-463	20 Teeth
1	Cam Sprocket	83-81	223-462	40 Teeth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	83-81	VG-734	.3153" ID, 2.3250" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	83-81	ST-2034	Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.	83-81	245-1437-61	Std Only 1.4445" OD, 1.1620" ID, .3100" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	83-81	VK-215	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-81	7136M	Std-.25MM
1	Rod Set	83-81	6-67230CP	Std-.25-.50-.75MM

## 3.0L 2960cc SOHC V6 (12 Valve), 87mm Bore 1990-84 **29** Eng. Codes "V30E" 1984-87, "VG30" 1984-89, "VG30E" 1984-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-84	222-104	Square tooth
1	Timing Belt Tensioner	90-84	222-124BT	
1	Timing Belt & Tensioner Set	90-84	BTS-104	Square tooth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-84	CS-844	L.H.; Incl. gear
1	Camshaft	90-84	CS-843	R.H.; Gear not incl.
12	Lifter	90-84	HT-2198	Std Only
1	Prelube	90-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-84	KC-843	Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-84	KCT-843	L.H & R.H. camshafts incl.; Incl. square tooth timing belt; Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 222-104, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm	90-84	R-922	
1	Rocker Shaft	90	RS-648	Exh.
1	Rocker Shaft	90	RS-649	Int.
1	Rocker Shaft	89-88	RS-648	Exh.; Maxima
1	Rocker Shaft	89-88	RS-649	Int.; Maxima
1	Rocker Shaft	89-88	RS-675	Int.; 300ZX
1	Rocker Shaft	88	RS-648	Exh.; 200SX
1	Rocker Shaft	88	RS-649	Int.; 200SX
1	Rocker Shaft	87	RS-675	Int.; From 11/86; 300ZX
1	Rocker Shaft	86	RS-675	300ZX
1	Rocker Shaft	86	RS-648	Exh.; To 10/86; 200SX, Maxima & 300ZX
1	Rocker Shaft	86	RS-649	Int.; To 11/86; 200SX, Maxima & 300ZX
1	Rocker Shaft	85-84	RS-648	Exh.; 200SX, Maxima & 300ZX
1	Rocker Shaft	85-84	RS-649	Int.; 200SX, Maxima & 300ZX
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-84	V-2330	Std Only Nitrided stem; 1.3820" Head Dia., .3138" Stem Dia., 4.9010" O.A.L.
6	Intake	90-84	V-2322	Std Only Nitrided stem; 1.6570" Head Dia., .2745" Stem Dia., 4.9450" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-84	VG-7578	Exh.; .3152" ID, 2.5000" O.A.L.
6	Guide	90-84	VG-7588	Int.; .008" O/S OD; .2760" ID, 2.3100" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-84	VS-876	Inner; 1.7550" Free Height
12	Spring	90-84	VS-1446	Outer; 2.0650" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
6	Valve Stem Seal	90-84	ST-2034	Exh.; Positive type; Viton®
6	Valve Stem Seal	90-84	ST-2069	Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Int.	90-84	245-1812-55	Std Only 1.8195" OD, 1.5000" ID, .2780" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	90-84	VK-243	

**VALVE TRAIN**

**VALVE TRAIN**

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## 29 3.0L 2960cc SOHC V6 (12 Valve), 87mm Bore 1990-84 (cont.) Eng. Codes "V30E" 1984-87, "VG30" 1984-89, "VG30E" 1984-94

BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	6	Cast Piston	90-88	<b>H832CP</b> Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-2.80mm Ring Groove, 1.248" CD, .8259" Pin Dia., Flat Head w/2 valve reliefs;
	6	Cast Piston	87	<b>H832CP</b> Std-.50-.75-1.00MM	<b>DurOshield® skirt coated piston</b> From 4/87; Hypereutectic; 2-1.50mm, 1-2.80mm Ring Groove, 1.248" CD, .8259" Pin Dia., Flat Head w/2 valve reliefs;
	6	Cast Piston	86-85	<b>12490P</b> Std Only	<b>DurOshield® skirt coated piston</b> From 6/85 to 7/86; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 32mm CD, 21.0mm Pin Dia., Flat Head w/2 valve reliefs
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90-84	<b>E-558KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
	6	Premium Single Cylinder Set	90-84	<b>WE-558KC</b> Std-.50MM	2-1.50MM, 1-2.80MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90-84	<b>7099M</b> Std-.25-.50-.75MM	
	1	Rod Set	90-84	<b>6-1845CP</b> Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	90-88	<b>224-41950</b>		
1	Oil Pump	87	<b>224-41950</b>	From 4/87	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90-88	<b>260-1784</b>	Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	
1	Kit Gasket Set	87	<b>260-1784</b>	From 4/1/87; Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	
1	Kit Gasket Set	87	<b>260-1495</b>	To 3/31/87; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86-84	<b>260-1495</b>	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	90-84	<b>381-8092</b>	Eng. Code "VG30E"	
1	Steel Block Plug Kit	90-84	<b>381-9667</b>	Eng. Code "VG30E"	

KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
	90-88	Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	Re-ring		<b>205-6784</b>	----
			Re-ring w/Mains		<b>205-6784M</b>	----
	87	To 3/31/87; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6173</b>	----
	87	From 4/1/87; Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	Re-ring		<b>205-6784</b>	----
			Re-ring w/Mains		<b>205-6784M</b>	----
	86-84	PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6173</b>	----
	OVERHAUL KIT				PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION				
90-88	Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	Block w/Pump & Freeze Plugs		<b>BKP-6312</b>	----	
		Block		<b>BK-6312</b>	----	
87	From 4/87; Head bolts not incl.; Exh. pipe to manifold gskt. not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	Block w/Pump & Freeze Plugs		<b>BKP-6312</b>	----	
		Block		<b>BK-6312</b>	----	

## 30 3.0L 2960cc DOHC V6 (24 Valve), 87mm Bore 1990 Eng. Codes "VE30DE" 1992-94, "VG30D" 1990-96, "VG30DE" 1990-97

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	<b>222-B180</b>	
1	Timing Belt	90	<b>222-104</b>	Square tooth
1	Timing Belt Tensioner	90	<b>222-344BT</b>	
1	Timing Belt & Tensioner Set	90	<b>BTS-104</b>	Square tooth

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<b>3.0L 2960cc DOHC V6 (24 Valve), 87mm Bore 1990 30</b>					
Eng. Codes "VE30DE" 1992-94, "VG30D" 1990-96, "VG30DE" 1990-97 (cont.)					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>TIMING (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Belt Idler	90	222-342BT	L.H.; Eng. Code "VG30DE"
	1	Belt Idler	90	222-341BT	R.H.; Eng. Code "VG30DE"
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	24	Lifter	90	HT-2277 Std Only	Hyd. flat lifter
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	24	Arm	90	R-922	
	2	Rocker Shaft	90	RS-648	Exh.
	2	Rocker Shaft	90	RS-649	Int.
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Exhaust	90	V-4198X Std Only	1.1640" Head Dia., .2343" Stem Dia., 4.0810" O.A.L.	
12	Intake	90	V-4065 Std Only	1.3425" Head Dia., .2352" Stem Dia., 4.0630" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Guide	90	VG-923	Exh.; .2165" ID, 1.9400" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Spring	90	VS-876	Inner; 1.7550" Free Height	
24	Spring	90	VS-1446	Outer; 2.0650" Free Height	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Int.	90	245-1812-55 Std Only	1.8195" OD, 1.5000" ID, .2780" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
24	Keeper	90	VK-243		
<b>BLOCK</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cast Piston Set w/Prem. Rings	90	6K13601P Std-.50-1.00MM	Eng. Code "VG30DE"; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 1.251" CD, 22.0mm Pin Dia., Flat Head w/4 valve reliefs
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90	E-558KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
	6	Premium Single Cylinder Set	90	WE-558KC Std-.50MM	2-1.50MM, 1-2.80MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90	7322M Std Only		
1	Rod Set	90	6-4605P Std-.25MM		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	90	260-1804	Eng. Code "VG30DE"; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	
<b>RE-RING KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	
90	Eng. Code "VG30DE"; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for oil pan gskt.	Re-ring Re-ring w/Mains	205-6890 205-6890M	----- -----	

<b>3.0L 2960cc DOHC Turbo V6 (24 Valve), 87mm Bore 1990 31</b>					
Eng. Codes "VG30DETT" 1990-96, "VG30DTT" 1990-96					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Belt	90	222-B180		
1	Timing Belt Tensioner	90	222-344BT		
1	Belt Idler	90	222-342BT	L.H.	
1	Belt Idler	90	222-341BT	R.H.	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Lifter	90	HT-2277 Std Only	Hyd. flat lifter	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Exhaust	90	V-4198X Std Only	1.1640" Head Dia., .2343" Stem Dia., 4.0810" O.A.L.	
12	Intake	90	V-4065 Std Only	1.3425" Head Dia., .2352" Stem Dia., 4.0630" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Guide	90	VG-923	Exh.; .2165" ID, 1.9400" O.A.L.	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Int.	90	245-1500-77 Std Only	1.235" ID top taper; 1.5000" OD, 1.1750" ID, .2360" Depth	
<b>BLOCK</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	90	E-558KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
6	Premium Single Cylinder Set	90	WE-558KC Std-.50MM	2-1.50MM, 1-2.80MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90	7322M Std Only		
1	Rod Set	90	6-4605P Std-.25MM		

# Nissan Car

## 32 3.0L 2960cc SOHC Turbo V6 (12 Valve), 87mm Bore 1989-84

Eng. Codes "V30ET" 1984-87, "VG30T" 1984-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	89-84	222-104	Square tooth	
1	Timing Belt Tensioner	89-84	222-124BT		
1	Timing Belt & Tensioner Set	89-84	BTS-104	Square tooth	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
1	Camshaft	89-84	CS-844	L.H.; Incl. gear	
1	Camshaft	89-84	CS-843	R.H.; Gear not incl.	
12	Lifter	89-84	HT-2198 Std Only		
1	Prelube	89-84	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION	
1	Cam/Lifter Kit	89-84	KC-843	Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 55-403B	
1	Cam/Lifter/Timing Kit	89-84	KCT-843	L.H & R.H. camshafts incl.; Incl. square tooth timing belt; Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 222-104, (1) 55-403B	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
6	Arm	89-84	R-922		
1	Rocker Shaft	89-88	RS-675	Int.	
1	Rocker Shaft	87	RS-675	Int.; From 11/86	
1	Rocker Shaft	86	RS-648	Exh.; To 10/86	
1	Rocker Shaft	86	RS-649	Int.; To 10/86	
1	Rocker Shaft	85-84	RS-648	Exh.	
1	Rocker Shaft	85-84	RS-649	Int.	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
6	Exhaust	89-84	V-2330 Std Only	Nitrided stem; 1.3820" Head Dia., .3138" Stem Dia., 4.9010" O.A.L.	
6	Intake	89-84	V-2322 Std Only	Nitrided stem; 1.6570" Head Dia., .2745" Stem Dia., 4.9450" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
6	Guide	89-84	VG-7578	Exh.; .3152" ID, 2.5000" O.A.L.	
6	Guide	89-84	VG-7588	Int.; .008" O/S OD; .2760" ID, 2.3100" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
12	Spring	89-84	VS-876	Inner; 1.7550" Free Height	
12	Spring	89-84	VS-1446	Outer; 2.0650" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
6	Valve Stem Seal	88-84	ST-2034	Exh.; Positive type; Viton®	
6	Valve Stem Seal	88-84	ST-2069	Int.; Positive type; Rubber	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
6	Int.	89-84	245-1812-55 Std Only	1.8195" OD, 1.5000" ID, .2780" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
24	Keeper	88-84	VK-243		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	89-84	E-558KC Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM	
6	Premium Single Cylinder Set	89-84	WE-558KC Std-.50MM	2-1.50MM, 1-2.80MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	89-84	7099M Std-.25-.50-.75MM		
1	Rod Set	89-84	6-1845CP Std-.25-.50-.75MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	87	260-1495	To 3/31/87; Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
1	Kit Gasket Set	86-84	260-1495	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	89-84	381-8092		
1	Steel Block Plug Kit	89-84	381-9667		
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.
	YEARS	DESCRIPTION			
	87	To 3/31/87; Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6173	----
	86-84	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring	205-6173	----

# Nissan Car

4.5L 4494cc DOHC V8 (32 Valve), 93mm Bore 1990 <b>33</b>				
Eng. Codes "VH45DE" 1990-96, "VK45DE" 2002-2006				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90	VG-813	Exh.; .3100" ID, 2.2000" O.A.L.
16	Guide	90	VG-812	Int.; .2760" ID, 2.0700" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	ST-2069	Exh.; Positive type; Rubber
16	Valve Stem Seal	90	ST-2034	Int.; Positive type; Viton®
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
16	Exh.	90	245-1375-60 Std Only	1.3820" OD, 1.1070" ID, .2370" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90	VK-249	Exh. & Int.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7414M Std-.25MM	
1	Thrust Washer Set	90	4941F Std Only	Position 3
8	Rod Pair	90	4940P Std-.25MM	

## Nissan Minivans - See Nissan Truck Nissan SUV's - See Nissan Truck Nissan Truck (Includes Minivans and SUV's)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 1299cc OHV L4 73mm Bore (8 Valve) L/D Truck.....	1969-65	1	2.4L 2389cc SOHC L4 89mm Bore (8 Valve) L/D Truck.....	1990-83	8
1.6L 1595cc SOHC L4 83mm Bore (8 Valve) L/D Truck.....	1973-69	2	2.4L 2389cc SOHC L4 89mm Bore (12 Valve) L/D Truck.....	1990	9
1.8L 1770cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	1974	3	2.5L 2488cc OHV Diesel L4 89mm Bore (8 Valve) L/D Truck.....	1986-83	10
2.0L 1952cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	1980-75	4	3.0L 2960cc SOHC V6 87mm Bore (12 Valve) L/D Truck.....	1990-86	11
2.0L 1952cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	1985-83	5	3.5L 3465cc OHV Turbo-Diesel L4 102.5mm Bore (8 Valve) L/D Truck.....	1990-89	12
2.2L 2164cc OHV Diesel L4 83mm Bore (8 Valve) L/D Truck.....	1983-81	6	4.0L 3956cc OHV L6 85.7mm Bore (12 Valve) L/D Truck.....	1969-61	13
2.2L 2187cc SOHC L4 87mm Bore (8 Valve) L/D Truck.....	1983-81	7			

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
FD35T.....	3.5L 3465cc OHV Turbo-Diesel L4 102.5mm Bore (8 Valve) L/D Truck.....	12	SD25.....	2.5L 2488cc OHV Diesel L4 89mm Bore (8 Valve) L/D Truck.....	10
J.....	1.3L 1299cc OHV L4 73mm Bore (8 Valve) L/D Truck.....	1	VG30.....	3.0L 2960cc SOHC V6 87mm Bore (12 Valve) L/D Truck.....	11
J13.....	1.3L 1299cc OHV L4 73mm Bore (8 Valve) L/D Truck.....	1	VG30E.....	3.0L 2960cc SOHC V6 87mm Bore (12 Valve) L/D Truck.....	11
KA24E.....	2.4L 2389cc SOHC L4 89mm Bore (12 Valve) L/D Truck.....	9	VG30I.....	3.0L 2960cc SOHC V6 87mm Bore (12 Valve) L/D Truck.....	11
L16.....	1.6L 1595cc SOHC L4 83mm Bore (8 Valve) L/D Truck.....	2	Z20.....	2.0L 1952cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	5
L18.....	1.8L 1770cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	3	Z22S.....	2.2L 2187cc SOHC L4 87mm Bore (8 Valve) L/D Truck.....	7
L20B.....	2.0L 1952cc SOHC L4 85mm Bore (8 Valve) L/D Truck.....	4	Z24.....	2.4L 2389cc SOHC L4 89mm Bore (8 Valve) L/D Truck.....	8
P.....	4.0L 3956cc OHV L6 85.7mm Bore (12 Valve) L/D Truck.....	13	Z24I.....	2.4L 2389cc SOHC L4 89mm Bore (8 Valve) L/D Truck.....	8
SD22.....	2.2L 2164cc OHV Diesel L4 83mm Bore (8 Valve) L/D Truck.....	6	Z24S.....	2.4L 2389cc SOHC L4 89mm Bore (8 Valve) L/D Truck.....	8

1.3L 1299cc OHV L4 (8 Valve), 73mm Bore 1969-65 <b>1</b>				
L/D Truck Eng. Codes "J13" 1965-69				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Cam Sprocket	69-65	223-470	40 Teeth
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	69-65	12012NP Std Only	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 32.5mm CD, 17.5mm Pin Dia., Flat Head

(continued on next page)

# Nissan Truck (Includes Minivans and SUV's)

<b>1 1.3L 1299cc OHV L4 (8 Valve), 73mm Bore 1969-65</b> (cont.) L/D Truck Eng. Codes "J13" 1965-69							
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
1	Thrust Washer Set	69-65	2056BF Std Only	Position 2			
1	Rod Set	69-65	4-4245CP Std-.25-.50-1.00MM	4-4245CA 1.50MM avail. as unplated & resizeable			
1	Cam Set	69-65	1734M Std Only				
1	Cam Set	69-65	1325M Std Only	Export only			
<b>2 1.6L 1595cc SOHC L4 (8 Valve), 83mm Bore 1973-69</b> L/D Truck Eng. Code "L16" 1969-73							
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	1	Timing Chain Tensioner	73-70	222-7CT			
	1	Crank Sprocket	73-70	223-463	20 Teeth		
	1	Cam Sprocket	73-70	223-462	40 Teeth		
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	8	Follower Guide	73-70	MR-1895			
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	8	Guide	73-70	VG-734	.3153" ID, 2.3250" O.A.L.		
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	8	Spring	73-70	VS-754	Inner; 1.7800" Free Height		
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	8	Valve Stem Seal	73-70	ST-2034	Positive type; Viton®		
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
	4	Int.	73-72	245-1812-50 Std Only	From 9/72; 1.8195" OD, 1.4900" ID, .3070" Depth		
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	16	Keeper	73-70	VK-215			
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	BLOCK	
	1	Premium Set	73-70	E-366KC Std Only	2-2.00MM, 1-4.00MM		
	1	Standard Set	73-70	E-366X Std Only	2-2.00MM, 1-4.00MM		
	4	Standard Single Cylinder Set	73-70	WE-366X Std Only	2-2.00MM, 1-4.00MM		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	73-70	7137M Std-.25MM				
1	Rod Set	73-70	4-67230CP Std-.25-.50-.75-1.00MM				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Oil Pump	73-70	224-41901				
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	73-69	260-1060	Premium valve stem seals incl.			
RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.		
73-70	Premium valve stem seals incl.		Re-ring	----	205-311		
<b>3 1.8L 1770cc SOHC L4 (8 Valve), 85mm Bore 1974</b> L/D Truck Eng. Code "L18" 1974							
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	1	Timing Chain Tensioner	74	222-7CT			
	1	Crank Sprocket	74	223-463	20 Teeth		
	1	Cam Sprocket	74	223-462	40 Teeth		
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
	8	Follower Guide	74	MR-1895			
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	8	Guide	74	VG-734	.3153" ID, 2.3250" O.A.L.		
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
	8	Spring	74	VS-754	Inner; 1.7800" Free Height		
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
	8	Valve Stem Seal	74	ST-2034	Positive type; Viton®		
	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
	4	Exh.	74	245-1500-54 Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth		
	4	Int.	74	245-1812-50 Std Only	1.8195" OD, 1.4900" ID, .3070" Depth		
	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	74	VK-215				
QTY	PISTON	YEARS	PART NO.	DESCRIPTION			
4	Cast Piston	74	12159P.75MM .75MM	Cast; 2-2.00mm, 1-4.00mm Ring Groove, 38.3mm CD, 21.0mm Pin Dia., Recessed Head 1.30mm deep x 73.5mm dia. - 9.5:1 C.R.			

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# Nissan Truck (Includes Minivans and SUV's)

1.8L 1770cc SOHC L4 (8 Valve), 85mm Bore 1974 <b>3</b>					
L/D Truck Eng. Code "L18" 1974 (cont.)					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	74	<b>E-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	1	Standard Set	74	<b>E-360X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	74	<b>WE-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Standard Single Cylinder Set	74	<b>WE-360X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	74	<b>7137M</b> Std-.25MM		
1	Rod Set	74	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	74	<b>224-41901</b>		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	74	<b>260-1060</b>	Premium valve stem seals incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	74	<b>381-8026</b>		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		Re-ring	<b>205-812</b>	<b>205-312</b>
74	Premium valve stem seals incl.				
2.0L 1952cc SOHC L4 (8 Valve), 85mm Bore 1980-75 <b>4</b>					
L/D Truck Eng. Code "L20B" 1975-80					
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain Tensioner	80-75	<b>222-7CT</b>	
	1	Crank Sprocket	80-75	<b>223-463</b>	20 Teeth
	1	Cam Sprocket	80-75	<b>223-462</b>	40 Teeth
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Follower Guide	80	<b>MR-1895</b>	720 Pickup
	8	Follower Guide	79-75	<b>MR-1895</b>	620 Pickup
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	80-75	<b>VG-734</b>	.3153" ID, 2.3250" O.A.L.
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	80-75	<b>VS-754</b>	Inner; 1.7800" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	80-75	<b>ST-2034</b>	Positive type; Viton®	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	80-75	<b>245-1500-54</b> Std Only	1.325" ID top taper; 1.5070" OD, 1.1800" ID, .3070" Depth	
4	Int.	80-75	<b>245-1812-50</b> Std Only	1.8195" OD, 1.4900" ID, .3070" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	80-75	<b>VK-215</b>		
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	80-75	<b>E-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	1	Standard Set	80-75	<b>E-360X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	80-75	<b>WE-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Standard Single Cylinder Set	80-75	<b>WE-360X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	80-75	<b>7139M</b> Std-.25-.50-.75MM	
	1	Rod Set	80-75	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM	
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump	80-75	<b>224-41901</b>	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	80-77	<b>260-1159</b>	Premium valve stem seals incl.	
1	Kit Gasket Set	76-75	<b>260-1060</b>	Premium valve stem seals incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	80	<b>381-8026</b>		
<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>		Re-ring	<b>205-843</b>	<b>205-343</b>
80-77	Premium valve stem seals incl.				
76-75	Premium valve stem seals incl.		Re-ring	<b>205-812</b>	<b>205-312</b>

# Nissan Truck (Includes Minivans and SUV's)

<b>5 2.0L 1952cc SOHC L4 (8 Valve), 85mm Bore 1985-83</b> L/D Truck Eng. Code "Z20" 1983-87					
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain	85-83	<b>222-3DR102</b>	Double rlr.; 102 Links
	1	Timing Chain Tensioner	85-83	<b>222-7CT</b>	
	1	Crank Sprocket	85-83	<b>223-463</b>	20 Teeth
	1	Cam Sprocket	85-83	<b>223-462</b>	40 Teeth
	1	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	85-83	<b>CS-755</b>	
	1	Prelube	85-83	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	4	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Arm	85-83	<b>R-934</b>	2-4
1	Rocker Shaft	85-83	<b>RS-653</b>	Int.	
4	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	85-83	<b>V-2249</b> Std Only	Nitrided stem; 1.5000" Head Dia., .3125" Stem Dia., 4.9350" O.A.L.	
4	Intake	85-83	<b>V-2250</b> Std Only	Nitrided stem; 1.6580" Head Dia., .3140" Stem Dia., 4.8900" O.A.L.	
8	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	85-83	<b>VG-760</b>	.3154" ID, 2.6600" O.A.L.	
8	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	85-83	<b>VS-876</b>	Inner; 1.7550" Free Height	
8	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	85-83	<b>ST-2034</b>	Positive type; Viton®	
4	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Int.	85-83	<b>245-1812-54</b> Std Only	1.8195" OD, 1.4050" ID, .3150" Depth	
BLOCK	1	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	84-83	<b>E-455KC</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	1	Standard Set	84-83	<b>E-455X</b> Std-.50-.75-1.00-1.50MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	84-83	<b>WE-455KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Standard Single Cylinder Set	84-83	<b>WE-455X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	85-83	<b>7139M</b> Std-.25-.50-.75MM	
	1	Rod Set	85-83	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM	
	1	Cam Set	85-83	<b>1865M</b> Std Only	
	1	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	84-83	<b>224-41901</b>	720 Pickup	
<b>6 2.2L 2164cc OHV Diesel L4 (8 Valve), 83mm Bore 1983-81</b> L/D Truck Eng. Code "SD22" 1981-83					
1	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Pin Bushing Set	83-81	<b>4-67269Y</b>		
1	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	83-81	<b>7071M</b> Std-.25MM		
1	Thrust Washer Set	83-81	<b>67261BF</b> Std Only	Position 2	
1	Rod Set	83-81	<b>4-67260CP</b> Std-.25-.50MM		
1	Cam Set	83-81	<b>1570M</b> Std Only		
<b>7 2.2L 2187cc SOHC L4 (8 Valve), 87mm Bore 1983-81</b> L/D Truck Eng. Code "Z22S" 1981-83					
1	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Chain	83-81	<b>222-3DR102</b>	Double rlr.; 102 Links	
1	Timing Chain Tensioner	83-81	<b>222-7CT</b>		
1	Crank Sprocket	83-81	<b>223-463</b>	20 Teeth	
1	Cam Sprocket	83-81	<b>223-462</b>	40 Teeth	
1	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Camshaft	83-81	<b>CS-755</b>		
1	Prelube	83-81	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
4	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Arm	83-81	<b>R-934</b>	Exh.	
1	Rocker Shaft	83-81	<b>RS-653</b>	Int.	
4	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exhaust	83-81	<b>V-2249</b> Std Only	Nitrided stem; 1.5000" Head Dia., .3125" Stem Dia., 4.9350" O.A.L.	

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# Nissan Truck (Includes Minivans and SUV's)

2.2L 2187cc SOHC L4 (8 Valve), 87mm Bore 1983-81 <b>7</b>					
L/D Truck Eng. Code "Z22S" 1981-83 (cont.)					
B L O C K	QTY	<b>VALVE</b> (cont.)	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Intake	83-81	<b>V-2250</b> Std Only	Nitrided stem; 1.6580" Head Dia., .3140" Stem Dia., 4.8900" O.A.L.
	QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	83-81	<b>VG-760</b>	.3154" ID, 2.6600" O.A.L.
	QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Spring	83-81	<b>VS-876</b>	Inner; 1.7550" Free Height
	QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Valve Stem Seal	83-81	<b>ST-2034</b>	Positive type; Viton®
	QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Int.	83-81	<b>245-1812-54</b> Std Only	1.8195" OD, 1.4050" ID, .3150" Depth
	QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Keeper	83-81	<b>VK-215</b>	
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	83-81	<b>E-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
	1	Standard Set	83-81	<b>E-475X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
	4	Premium Single Cylinder Set	83-81	<b>WE-475KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	83-81	<b>7139M</b> Std-.25-.50-.75MM		
1	Rod Set	83-81	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM		
1	Cam Set	83-81	<b>1865M</b> Std Only		
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	83-81	<b>224-41901</b>		
QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	83-81	<b>260-1282</b>	Premium valve stem seals incl.	
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	83-81	<b>381-8093</b>		
<b>RE-RING KIT</b>					
<b>YEARS</b>		<b>DESCRIPTION</b>		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
83-81		Premium valve stem seals incl. Re-ring		205-6052	----
2.4L 2389cc SOHC L4 (8 Valve), 89mm Bore 1990-83 <b>8</b>					
L/D Truck Eng. Codes "Z24" 1983-89, "Z24I" 1985-90, "Z24S" 1985-89					
V A L V E  T R A I N	QTY	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Timing Chain	87-83	<b>222-D106T2</b>	106 Links
	1	Timing Chain Tensioner	89-83	<b>222-7CT</b>	
	1	Timing Chain Guide	89-83	<b>222-122GP</b>	Slack Side
	1	Timing Chain Guide	89-83	<b>222-121GP</b>	Tension Side
	1	Crank Sprocket	89-88	<b>223-701</b>	20 Teeth
	1	Crank Sprocket	87-83	<b>223-463</b>	20 Teeth
	1	Cam Sprocket	89-88	<b>223-698</b>	40 Teeth
	1	Cam Sprocket	87-83	<b>223-462</b>	40 Teeth
	QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft	89-83	<b>CS-755</b>	
	1	Prelube	89-83	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Arm	89-86	<b>R-934</b>	Exh.
	1	Rocker Shaft	89-86	<b>RS-653</b>	Int.
	QTY	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	89-83	<b>V-2249</b> Std Only	Nitrided stem; 1.5000" Head Dia., .3125" Stem Dia., 4.9350" O.A.L.	
4	Intake	89-83	<b>V-2250</b> Std Only	Nitrided stem; 1.6580" Head Dia., .3140" Stem Dia., 4.8900" O.A.L.	
QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	89-83	<b>VG-760</b>	.3154" ID, 2.6600" O.A.L.	
QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	89-83	<b>VS-876</b>	Inner; 1.7550" Free Height	
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	89-86	<b>ST-2034</b>	Positive type; Viton®	
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Int.	89-83	<b>245-1812-54</b> Std Only	1.8195" OD, 1.4050" ID, .3150" Depth	
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	89-86	<b>VK-215</b>		

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# Nissan Truck (Includes Minivans and SUV's)

**8 2.4L 2389cc SOHC L4 (8 Valve), 89mm Bore 1990-83**  
 (cont.) L/D Truck Eng. Codes "Z24" 1983-89, "Z24I" 1985-90, "Z24S" 1985-89

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	89	<b>13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; To 8/89; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston	88-85	<b>13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston	84	<b>13013P</b> Std-.50-1.00MM	Use w/E-560KC or E-560X ring set; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston	83	<b>13013P</b> Std-.50-1.00MM	Eng. Code "Z24"; From 11/82; Use w/E-560KC or E-560X ring set; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston - Individual	89	<b>W13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; To 8/89; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston - Individual	88-85	<b>W13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston - Individual	84	<b>W13013P</b> Std-.50-1.00MM	Use w/WE-560KC or WE-560X ring set; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
4	Cast Piston - Individual	83	<b>W13013P</b> Std-.50-1.00MM	Eng. Code "Z24"; From 11/82; Use w/WE-560KC or WE-560X ring set; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	89	<b>4K13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; To 8/89; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	88-85	<b>4K13013P</b> Std-.50-1.00MM	Eng. Codes "Z24" & "Z24I"; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings	83	<b>4K13013P</b> Std-.50-1.00MM	Eng. Code "Z24"; From 11/82; Cast; 1-2.00mm, 1-1.50mm, 1-4.00mm Ring Groove, 33.8mm CD, 21.0mm Pin Dia., Recessed Head 4.03mm deep x 76.20mm dia. w/4 valve reliefs
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	89-85	<b>E-560KC</b> Std-.50-.75-1.00MM	1-2.00MM, 1-1.50MM, 1-4.00MM
1	Premium Set	84-83	<b>E-560KC</b> Std-.50-.75-1.00MM	Use w/13013P piston; 1-2.00MM, 1-1.50MM, 1-4.00MM
1	Premium Set	84-83	<b>E-599KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	89-85	<b>E-560X</b> Std-.50-.75-1.00MM	1-2.00MM, 1-1.50MM, 1-4.00MM
1	Standard Set	84-83	<b>E-560X</b> Std-.50-.75-1.00MM	Use w/13013P piston; 1-2.00MM, 1-1.50MM, 1-4.00MM
1	Standard Set	84-83	<b>E-599X</b> Std-.50MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	89-85	<b>WE-560KC</b> Std-.50-.75-1.00MM	1-2.00MM, 1-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	84-83	<b>WE-560KC</b> Std-.50-.75-1.00MM	Use w/W13013P piston; 1-2.00MM, 1-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	84-83	<b>WE-599KC</b> Std Only	2-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	89-83	<b>7139M</b> Std-.25-.50-.75MM	
1	Rod Set	89-83	<b>4-67230CP</b> Std-.25-.50-.75-1.00MM	
1	Cam Set	89-83	<b>1865M</b> Std Only	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	89-87	<b>224-41919</b>	Exc. Van & Pathfinder
1	Oil Pump	89-87	<b>224-41920</b>	Van & Pathfinder
1	Oil Pump	86	<b>224-41919</b>	Exc. Van & 720 Pickup
1	Oil Pump	86-83	<b>224-41920</b>	Exc. 720 Pickup
1	Oil Pump	86-83	<b>224-41901</b>	720 Pickup
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	90-87	<b>260-1797</b>	Van; Head bolts not incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89-87	<b>260-1605</b>	Exc. Van; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.

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## Nissan Truck (Includes Minivans and SUV's)

2.4L 2389cc SOHC L4 (8 Valve), 89mm Bore 1990-83 <b>8</b>						
L/D Truck Eng. Codes "Z24" 1983-89, "Z24I" 1985-90, "Z24S" 1985-89 (cont.)						
<b>K I T S</b>	<b>QTY</b>	<b>GASKETS (cont.)</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set	86-83	260-1605	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
<b>K I T S</b>	<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Brass Block Plug Kit	90-83	381-8093		
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	89-87	Exc. Van; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/1-2.00MM, 1-1.50MM, 1-4.00MM ring groove		Re-ring	205-6362	205-1362
	86-85	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/1-2.00MM, 1-1.50MM, 1-4.00MM ring groove		Re-ring	205-6362	205-1362
	84-83	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6361	205-1361
84-83	Use w/13013P piston; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; For pistons w/1-2.00MM, 1-1.50MM, 1-4.00MM ring groove		Re-ring	205-6362	205-1362	
2.4L 2389cc SOHC L4 (12 Valve), 89mm Bore 1990 <b>9</b>						
L/D Truck Eng. Code "KA24E" 1990-97						
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Timing Chain	90	222-SR102T2	102 Links	
<b>V A L V E T R A I N</b>	1	Timing Chain Tensioner	90	222-176CT		
	1	Timing Chain Guide	90	222-178GP	Slack Side	
<b>V A L V E T R A I N</b>	1	Timing Chain Guide	90	222-177GP	Tension Side	
	1	Crank Sprocket	90	223-699	18 Teeth	
<b>V A L V E T R A I N</b>	1	Cam Sprocket	90	223-694	36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
<b>V A L V E T R A I N</b>	1	Camshaft	90	CS-1543	Lifter is part of rocker arm assy.	
	1	Prelube	90	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	2	Arm	90	R-1020	Exh. 1-3; Rocker arm w/lifter (integral type)	
<b>V A L V E T R A I N</b>	2	Arm	90	R-1021	Exh. 2-4; Rocker arm w/lifter (integral type)	
	4	Arm	90	R-1018	Int. Front; Rocker arm w/lifter (integral type)	
<b>V A L V E T R A I N</b>	4	Arm	90	R-1019	Int. Rear; Rocker arm w/lifter (integral type)	
	1	Rocker Shaft	90	RS-726	Exh.	
<b>V A L V E T R A I N</b>	1	Rocker Shaft	90	RS-727	Int.	
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
<b>V A L V E T R A I N</b>	4	Exhaust	90	V-2581X	Std Only Chrome plated stem; 1.5780" Head Dia., .3130" Stem Dia., 4.8140" O.A.L.	
	8	Intake	90	V-2580	Std Only Chrome plated stem; 1.3440" Head Dia., .2745" Stem Dia., 4.7770" O.A.L.	
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Guide	90	VG-813	Exh.; .3100" ID, 2.2000" O.A.L.	
<b>V A L V E T R A I N</b>	8	Guide	90	VG-812	Int.; .2760" ID, 2.0700" O.A.L.	
	<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
<b>V A L V E T R A I N</b>	4	Spring	90	VS-944	Exh. Inner; 1.9000" Free Height	
	4	Spring	90	VS-941	Exh. Outer; 2.1000" Free Height	
<b>V A L V E T R A I N</b>	8	Spring	90	VS-942	Int. Inner; 2.1200" Free Height	
	8	Spring	90	VS-943	Int. Outer; 2.2500" Free Height	
<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	4	Valve Stem Seal	90	ST-2069	Exh.; Positive type; Rubber	
<b>V A L V E T R A I N</b>	8	Valve Stem Seal	90	ST-2034	Int.; Positive type; Viton®	
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
<b>V A L V E T R A I N</b>	4	Exh.	90	245-1687-56	Std Only 1.6945" OD, 1.3750" ID, .2950" Depth	
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
<b>V A L V E T R A I N</b>	24	Keeper	90	VK-249		
	<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4		Cast Piston	90	13503P	Std.-50-.75-1.00MM Pickup; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 34.0mm CD, 21.0mm Pin Dia., Recessed Head 78.40mm dia.	
<b>B L O C K</b>	4	Cast Piston - Individual	90	W13503P	Std.-50-.75-1.00MM Pickup; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 34.0mm CD, 21.0mm Pin Dia., Recessed Head 78.40mm dia.	
	4	Pin Bushing	90	4464Y		
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90	E-559KC	Std.-50-.75-1.00MM 2-1.50MM, 1-2.80MM	
<b>B L O C K</b>	4	Premium Single Cylinder Set	90	WE-559KC	Std Only 2-1.50MM, 1-2.80MM	

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# Nissan Truck (Includes Minivans and SUV's)

<b>9 2.4L 2389cc SOHC L4 (12 Valve), 89mm Bore 1990</b> (cont.) L/D Truck Eng. Code "KA24E" 1990-97							
BLOCK	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Main Set	90	7285M	Std-.25-.50MM		
	1	Rod Set	90	4-4460P	Std-.25-.50MM		
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90	224-43637	Axxess			
1	Oil Pump	90	224-43451	Pickup			
1	Screen Assy.	90	224-14286				
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Kit Gasket Set	90	260-1795	Axxess; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
1	Kit Gasket Set	90	260-1754	Exc. Axxess; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Brass Block Plug Kit	90	381-8093				
KITS	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	KITS	
	<b>YEARS</b>	<b>DESCRIPTION</b>					
	90	Exc. Axxess; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring	205-6885		----
	90	Axxess; Head bolts not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		Re-ring w/Mains	205-6885M		----
90			Re-ring	205-6886	----		
90			Re-ring w/Mains	205-6886M	----		
<b>10 2.5L 2488cc OHV Diesel L4 (8 Valve), 89mm Bore 1986-83</b> L/D Truck Eng. Code "SD25" 1983-86							
BLOCK	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Pin Bushing Set	86-83	4-67269Y			
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Premium Set	86-83	E-757KC	Std Only 1-2.50MM, 1-2.00MM, 1-4.50MM		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
1	Main Set	86-83	7071M	Std-.25MM			
1	Thrust Washer Set	86-83	67261BF	Std Only			
1	Rod Set	86-83	4-67260CP	Std-.25-.50MM			
1	Cam Set	86-83	1570M	Std Only			
<b>11 3.0L 2960cc SOHC V6 (12 Valve), 87mm Bore 1990-86</b> L/D Truck Eng. Codes "VG30" 1986-98, "VG30E" 1990-98, "VG30I" 1986-89							
VALVE TRAIN	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Timing Belt	90-86	222-104	Square tooth		
	1	Timing Belt Tensioner	90-86	222-124BT			
	1	Timing Belt & Tensioner Set	90-86	BTS-104	Square tooth		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Camshaft	90-86	CS-844	L.H.; Incl. gear		
	1	Camshaft	90-86	CS-843	R.H.; Gear not incl.		
	12	Lifter	90-86	HT-2198	Std Only		
	1	Prelube	90-86	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Cam/Lifter Kit	90-86	KC-843	Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 55-403B		
	1	Cam/Lifter/Timing Kit	90-86	KCT-843	L.H & R.H. camshafts incl.; Incl. square tooth timing belt; Gear for CS843 not incl.; Gear for CS844 incl.; Incl. (1) CS-843, (1) CS-844, (12) HT-2198, (1) 222-104, (1) 55-403B		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
6	Arm	90-86	R-922				
1	Rocker Shaft	90-86	RS-648	Exh.			
1	Rocker Shaft	90-86	RS-649	Int.			
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
6	Exhaust	90-86	V-2330	Std Only Nitrided stem; 1.3820" Head Dia., .3138" Stem Dia., 4.9010" O.A.L.			
6	Intake	90-86	V-2322	Std Only Nitrided stem; 1.6570" Head Dia., .2745" Stem Dia., 4.9450" O.A.L.			
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
6	Guide	90	VG-1403T	Exh.; Threaded; Std. OD; .3160" ID, 2.5000" O.A.L.			
6	Guide	90	VG-1402T	Int.; Threaded; Std. OD; .2760" ID, 2.3150" O.A.L.			
6	Guide	89-86	VG-7578	Exh.; .3152" ID, 2.5000" O.A.L.			
6	Guide	89-86	VG-7588	Int.; .008" O/S OD; .2760" ID, 2.3100" O.A.L.			
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>			
12	Spring	90-86	VS-876	Inner; 1.7550" Free Height			

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# Nissan Truck (Includes Minivans and SUV's)

**3.0L 2960cc SOHC V6 (12 Valve), 87mm Bore 1990-86 11**

**L/D Truck Eng. Codes "VG30" 1986-98, "VG30E" 1990-98, "VG30I" 1986-89 (cont.)**

	QTY	VALVE SPRING (cont.)	YEARS	PART NO.	DESCRIPTION
	12	Spring	90-86	<b>VS-1446</b>	Outer; 2.0650" Free Height
	6	Valve Stem Seal	90-86	<b>ST-2069</b>	Exh.; Positive type; Rubber
	6	Valve Stem Seal	90-86	<b>ST-2034</b>	Int.; Positive type; Viton®
	6	Valve Seat Int.	90-86	<b>245-1812-55</b> Std Only	1.8195" OD, 1.5000" ID, .2780" Depth
	24	Valve, MISC Keeper	90-86	<b>VK-243</b>	
BLOCK	6	Cast Piston	90-88	<b>H832CP</b> Std-.50-.75-1.00MM	Hypereutectic; 2-1.50mm, 1-2.80mm Ring Groove, 1.248" CD, .8259" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
	6	Cast Piston	87	<b>H832CP</b> Std-.50-.75-1.00MM	From 4/87; Hypereutectic; 2-1.50mm, 1-2.80mm Ring Groove, 1.248" CD, .8259" Pin Dia., Flat Head w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
	1	Premium Set	90-86	<b>E-525KC</b> Std Only	1-2.00MM, 1-1.50MM, 1-2.80MM
	6	Premium Single Cylinder Set	90-86	<b>WE-525KC</b> Std Only	1-2.00MM, 1-1.50MM, 1-2.80MM
	1	Main Set	90-86	<b>7099M</b> Std-.25-.50-.75MM	
	1	Rod Set	90-86	<b>6-1845CP</b> Std-.25-.50-.75MM	
	1	Oil Pump	90	<b>224-41956</b>	D21 Pickup; Pathfinder; 4WD; Eng. Code VG30E
	1	Oil Pump	89-88	<b>224-41956</b>	D21 Pickup; Pathfinder; 4WD; Eng. Code VG30I
	1	Oil Pump	89-88	<b>224-41950</b>	D21 Pickup; 2WD
	1	Oil Pump	87	<b>224-41950</b>	From 3/87; D21 Pickup; 2WD
	1	Oil Pump	87	<b>224-41956</b>	Pathfinder, D21 Pickup & Pickup; 4WD; Eng. Code VG30I
	1	Oil Pump	86	<b>224-41956</b>	D21 Pickup & Pickup; 4WD; Eng. Code VG30I
	1	Kit Gasket Set	90-88	<b>260-1498</b>	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	<b>260-1498</b>	From 5/1/87; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
	1	Kit Gasket Set	87	<b>260-1785</b>	To 4/30/87; Exh. pipe flange not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	86	<b>260-1785</b>	Exh. pipe flange not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	
	1	Brass Block Plug Kit	90	<b>381-8092</b>	Eng. Code "VG30E"
	1	Steel Block Plug Kit	90	<b>381-9667</b>	Eng. Code "VG30E"
KITS	<b>RE-RING KIT</b>				
	<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>
	90-88	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6176</b>
			Re-ring w/Mains		<b>205-6176M</b>
	87	From 5/1/87; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6176</b>
			Re-ring w/Mains		<b>205-6176M</b>
	87	To 4/30/87; Exh. pipe flange not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6785</b>
			Re-ring w/Mains		<b>205-6785M</b>
	86	Exh. pipe flange not incl.; Valve cover grommets not incl.; PermaDry® molded rubber valve cover & oil pan gskts. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6785</b>
			Re-ring w/Mains		<b>205-6785M</b>
<b>OVERHAUL KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>			<b>PREMIUM KIT NO.</b>	
90-88	Pathfinder, D21 Pickup & Pickup; 4WD; Eng. Code VG30I; Freeze plugs not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. square tooth timing belt; Gear for CS843 not incl.; Gear for CS844 incl.	Master w/o Pistons		<b>MK-6176A</b>	
87	From 5/1/87; Pathfinder, D21 Pickup & Pickup; 4WD; Eng. Code VG30I; Freeze plugs not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. square tooth timing belt; Gear for CS843 not incl.; Gear for CS844 incl.	Master w/o Pistons		<b>MK-6176A</b>	

## Nissan Truck (Includes Minivans and SUV's)

<b>12</b> 3.5L 3465cc OHV Turbo-Diesel L4 (8 Valve), 102.5mm Bore 1990-89 L/D Truck Eng. Code "FD35T" 1989-91				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	90-89	<b>1281AF</b> Std Only	Position 3
1	Rod Set	90-89	<b>4-1280CP</b> Std Only	
<b>13</b> 4.0L 3956cc OHV L6 (12 Valve), 85.7mm Bore 1969-61 L/D Truck Eng. Code "P40" 1961-69				
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	69-61	<b>10359KX</b> Std-.50-.75-1.00-1.50MM	2-2.50MM, 1-4.76MM
6	Premium Single Cylinder Set	69-61	<b>W-10359KX</b> Std Only	2-2.50MM, 1-4.76MM

## Oldsmobile - See GM Car OMC Marine

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.5L 153 OHV L4 3.875" Bore (Chevrolet) (GMC Eng.) .....		1	4.9L 300 OHV V8 3.75" Bore (Buick) (GMC Eng.) ... ..		7
3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.) ..		2	5.0L 302 OHV V8 4" Bore (Ford Eng.) .....		8
3.7L 225 OHV V6 3.75" Bore (Buick) (GMC Eng.) ...		3	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.) .....		9
4.1L 250 OHV L6 3.875" Bore (Chevrolet) (GMC Eng.) .....		4	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .		10
4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .		5	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.).....	1990-68	11
4.6L 283 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.) .....		6			

<b>Model Index</b>					
<b>Model</b>	<b>Engine Description</b>	<b>Line No.</b>	<b>Model</b>	<b>Engine Description</b>	<b>Line No.</b>
100 (100 HP)...Marine Applications .....	2.5L 153 OHV L4 3.875" Bore (Chevrolet) (GMC Eng.).....	1	250/5.7 Litre (290 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10
110 (110 HP)...Marine Applications .....	2.5L 153 OHV L4 3.875" Bore (Chevrolet) (GMC Eng.).....	1	260 (250 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10
120/2.5 Litre (120 HP)...Marine Applications .....	2.5L 153 OHV L4 3.875" Bore (Chevrolet) (GMC Eng.).....	1	260 (260 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10
130/3.0 Litre (130 HP)...Marine Applications .....	3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.) .....	2	260 (270 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10
140/3.0 Litre (140 HP)...Marine Applications .....	3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.) .....	2	260 (290 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10
150 HP...Marine Applications .....	3.7L 225 OHV V6 3.75" Bore (Buick) (GMC Eng.) .....	3	3.0L Litre (115 HP)...Marine Applications .....	3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.) .....	2
155 HP...Marine Applications .....	3.7L 225 OHV V6 3.75" Bore (Buick) (GMC Eng.) .....	3	3.0L Litre High Output (130 HP)...Marine Applications .....	3.0L 181 OHV L4 4" Bore (Chevrolet) (GMC Eng.) .....	2
165 (165 HP)...Marine Applications .....	4.1L 250 OHV L6 3.875" Bore (Chevrolet) (GMC Eng.).....	4	351 King Cobra (260 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11
175 (175 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8	4.3 Litre (150 HP)...Marine Applications .....	4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .....	5
185 (185 HP)...Marine Applications .....	4.6L 283 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	6	4.3 Litre (160 HP)...Marine Applications .....	4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .....	5
190 (190 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8	4.3 Litre (175 HP)...Marine Applications .....	4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .....	5
200 HP(Late Design)...Marine Applications .....	4.9L 300 OHV V8 3.75" Bore (Buick) (GMC Eng.) .....	7	4.3 Litre (180 HP)...Marine Applications .....	4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .....	5
210 (210 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	4.3 Litre (205 HP)...Marine Applications .....	4.3L 262 OHV V6 4" Bore (Chevrolet) (GMC Eng.) .....	5
215 (215 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	5.0 Litre (160 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
225 (225 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	5.0 Litre (170 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
230 (230 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	5.0 Litre (185 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
235 (235 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	5.0 Litre High Output (175 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
245 (245 HP)...Marine Applications .....	5.0L 307 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.).....	9	5.0 Litre High Output (190 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
250 (250 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11	5.0 Litre High Output (200 HP)...Marine Applications .....	5.0L 302 OHV V8 4" Bore (Ford Eng.).....	8
250 King Cobra (235 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10	5.8 Litre (210 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11
250 King Cobra (270 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10	5.8 Litre (215 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11
250/5.7 Litre (215 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10	5.8 Litre (235 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11
250/5.7 Litre (220 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10	5.8 Litre Cobra (240 HP)...Marine Applications .....	5.8L 351 OHV V8 4" Bore (Windsor) (Ford Eng.) .....	11
250/5.7 Litre (250 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10			
250/5.7 Litre (260 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10			
250/5.7 Litre (270 HP)...Marine Applications .....	5.7L 350 OHV V8 4" Bore (Chevrolet) (GMC Eng.) .....	10			

# OMC Marine

## 1 2.5L 153 OHV L4 (Chevrolet), 3.875" Bore (GMC Eng.) Marine Applications Models 100 (100 HP); 110 (110 HP); 120/2.5 Litre (120 HP)

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter		HT-817 Std Only	Hyd.
8	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
8	Push Rod		RP-3180	9.6800" O.A.L.
8	Push Rod, Bulk		BRP-3180	Carton of 100; 9.6800" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm Assy.		R-832	Incl. arm, ball & nut
8	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
8	Arm		R-832A	
8	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
8	Stud		MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
4	Exhaust		V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
4	Exhaust, Bulk		V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
4	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
4	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide		VG-5061	Exh.; .3430" ID, 2.3800" O.A.L.
4	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
4	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
4	Guide		VG-5005	Int.; .3430" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
4	Guide, Bulk		VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		VS-521	Incl. damper; 2.1090" Free Height
1	Spring		VS-739R	Optional-H/D; 2.0000" Free Height
1	Spring, Bulk		VS-739RB	Optional-H/D; Carton of 300; 2.0000" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
8	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal		MV-1233C	O-Ring; Rubber
8	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
4	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
4	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper		VK-115	1 groove; Square cut key groove
16	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
16	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston		1108P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
4	Cast Piston		1108NP * Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
4	Cast Piston - Individual		W1108NP30 * 30	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
4	Pin		P-2208 Std-3-5-0015	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-450K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-450X Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set		WE-450K Std-20-30-40-60	2-5/64, 1-3/16
4	Standard Single Cylinder Set		WE-450X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4123MA Std-1-10-20-30	A-Series aluminum bearings
1	Rod Set		4-2020CP Std-1-10-20-30-40	
4	Rod Pair		2020CP Std-1-2-10-20-30-40-50	
1	Cam Set		1202M Std Only	

(continued on next page)



# OMC Marine

<b>2.5L 153 OHV L4 (Chevrolet), 3.875" Bore (GMC Eng.) 1</b>					
<b>Marine Applications Models 100 (100 HP); 110 (110 HP); 120/2.5 Litre (120 HP) (cont.)</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Oil Pump		224-4147	
	<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Kit Gasket Set		260-1505M	Cobra drive unit; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
1	Kit Gasket Set		260-1504M	Exc. Cobra drive unit; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit		381-8006		
<b>3.0L 181 OHV L4 (Chevrolet), 4" Bore (GMC Eng.) 2</b>					
<b>Marine Applications Models 3.0 Litre (115 HP); 3.0 Litre High Output (130 HP); 130/3.0 Litre (130 HP); 140/3.0 Litre (140 HP)</b>					
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Camshaft		CS-1068M	
	8	Lifter		HT-817 Std Only	Hyd.
	8	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
	1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Cam/Lifter Kit		KC-1068M	Incl. (1) CS-1068M, (8) HT-817, (1) 55-403B
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
	8	Push Rod		RP-3180	9.6800" O.A.L.
	8	Push Rod, Bulk		BRP-3180	Carton of 100; 9.6800" O.A.L.
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Arm Assy.		R-832	Incl. arm, ball & nut
	8	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
	8	Arm		R-832A	
	8	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
	8	Stud		MR-1949	3/8" x 24 x 2.495"
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
	4	Exhaust		V-4231 Std Only	Chrome plated stem; Swirl Polish; 1.6000" Head Dia., .3407" Stem Dia., 4.9000" O.A.L.
	4	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
	4	Intake		V-1926 Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
	4	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
	4	Intake, Bulk		V-1926B Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring		VS-521	Incl. damper; 2.1090" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal		MV-1233C	O-Ring; Rubber	
8	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper		VK-115	1 groove; Square cut key groove	
16	Keeper		VK-115R	1 groove; Square cut key groove; Hardened	
16	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Cast Piston		H897CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.610" CD, .9275" Pin Dia., Flat Head
	4	Cast Piston		H896CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9279" Pin Dia., Recessed Head .140" deep x 1.610 Radius
	4	Cast Piston - Individual		WH897CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.610" CD, .9275" Pin Dia., Flat Head
	4	Cast Piston - Individual		WH896CP Std-20-30-40-60	Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.625" CD, .9279" Pin Dia., Recessed Head .140" deep x 1.610 Radius
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set		E-381K Std-20-30-40-60	2-5/64, 1-3/16
	1	Standard Set		E-381X Std-20-30-40-60	2-5/64, 1-3/16
4	Premium Single Cylinder Set		WE-381K Std-20-30	2-5/64, 1-3/16	
4	Standard Single Cylinder Set		WE-381X Std-20-30-40	2-5/64, 1-3/16	

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# OMC Marine

## 2 3.0L 181 OHV L4 (Chevrolet), 4" Bore (GMC Eng.) (cont.) Marine Applications Models 3.0 Litre (115 HP); 3.0 Litre High Output (130 HP); 130/3.0 Litre (130 HP); 140/3.0 Litre (140 HP)

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4123MA Std-1-10-20-30	A-Series aluminum bearings
4	Rod Pair		2555A Std-1-2-10-20-30-40-50-60	A-Series aluminum bearings
4	Rod Pair		2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
4	Rod Pair		2555CA60 60	Unplated & resizeable
1	Cam Set		1461M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4147	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1505M	Cobra drive unit; Manifold w/removable end cap; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
1	Kit Gasket Set		260-1506M	Exc. Cobra drive unit; Standard Rotation; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8006	

## 3 3.7L 225 OHV V6 (Buick), 3.75" Bore (GMC Eng.) Marine Applications 150, 155 HP

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334
1	Timing Chain		222-359	54 Links
1	Crank Sprocket		223-323	20 Teeth
1	Cam Sprocket		223-334	40 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter		HT-896 Std Only	Hyd.
12	Lifter, Bulk		HT-896B Std Only	Hyd.; Carton of 126
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod		RP-3173	From 1965; 8.7230" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm		R-1051	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide		VG-5002	Exh.; From 1965; .3420" ID, 3.0600" O.A.L.
6	Guide		VG-5034	Int.; From 1965; Cut to fit; .3430" ID, 2.5000" O.A.L.
6	Guide, Bulk		VG-5002B	Exh.; From 1965; Carton of 50; .3420" ID, 3.0600" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal		ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk		ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
6	Exh.		245-1500-1 Std Only	From 1965; 1.5045" OD, 1.2500" ID, .2160" Depth
6	Exh.		245-1437-3 Std Only	1964; 1.4425" OD, 1.1880" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper		VK-194	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston		1110P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
6	Cast Piston - Individual		W1110P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-222K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-222X Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set		WE-222K Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set		WE-222X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		7144MA Std-1-10-20-30-40	A-Series aluminum bearings
1	Main Set		7150MA10 10-20-30	A-Series aluminum bearings; .020" O/S length flange brg.
1	Rod Set		6-2500RAA Std-10-20-30-40	A-Series aluminum bearings
6	Rod Pair		2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set		1205M Std Only	

**4.1L 250 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.) 4  
Marine Applications Model 165 (165 HP)**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear		221-2527	27 Teeth
1	Cam Gear		221-2524	Alum.; 54 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Camshaft		CS-633	Hyd.
12	Lifter		HT-817 Std Only	Hyd.; Carton of 128
12	Lifter, Bulk		HT-817B Std Only	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	Prelube		55-400	
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit		KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Push Rod		RP-3214R	Chrome-Moly; 9.6800" O.A.L.
12	Push Rod		RP-3180	9.6800" O.A.L.
12	Push Rod, Bulk		BRP-3180	Carton of 100; 9.6800" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Arm Assy.		R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk		R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm		R-832A	
12	Stud		MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud		MR-1949	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exhaust		V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide		VG-5005	Exh.; .3430" ID, 2.2500" O.A.L.
6	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
6	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
6	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
6	Guide, Bulk		VG-5005B	Exh.; Carton of 50; .3430" ID, 2.2500" O.A.L.
6	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
6	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Spring		VS-521	Incl. damper; 2.1090" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
12	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal		MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
6	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
6	Int.		245-1812-4 Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper		VK-115	1 groove; Square cut key groove
24	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
6	Rotocap		RC-157S	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Cast Piston		403P Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep
6	Cast Piston		403CP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>
6	Cast Piston - Individual		W403P Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep
6	Cast Piston - Individual		W403CP30 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.640" CD, .9275" Pin Dia., Recessed Head .085" deep; <b>DurOshield® skirt coated piston</b>
6	Pin		P-2208 Std-3-5-0015	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set		E-234K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-234X Std-20-30-40-60	2-5/64, 1-3/16

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

# OMC Marine

<b>4 4.1L 250 OHV L6 (Chevrolet), 3.875" Bore (GMC Eng.)</b> (cont.) Marine Applications Model 165 (165 HP)				
QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
6	Premium Single Cylinder Set		<b>WE-234K</b> Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set		<b>WE-234X</b> Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4124MA</b> Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>6-2020CP</b> Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set		<b>6-2020CA60</b> 60	Unplated & resizeable
6	Rod Pair		<b>2020CP</b> Std-1-2-10-20-30-40-50	
1	Cam Set		<b>1203M</b> Std Only	
1	Cam Set		<b>1557M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		<b>224-4147</b>	
1	Screen Assy.		<b>224-1347</b>	
1	Screen Assy.		<b>224-1647</b>	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		<b>260-1508M</b>	Standard Rotation
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		<b>381-8006</b>	
<b>5 4.3L 262 OHV V6 (Chevrolet), 4" Bore (GMC Eng.)</b> Marine Applications Models 4.3 Litre (150 HP w/2 Bbl.); 4.3 Litre (160 HP w/2 Bbl.); 4.3 Litre (175 HP w/2 Bbl.); 4.3 Litre (175 HP w/4 Bbl.); 4.3 Litre (180 HP w/4 Bbl.); 4.3 Litre (205 HP w/4 Bbl.)				
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		<b>CS-1049M</b>	O.E. No. 14095789; Standard Rotation
1	Camshaft		<b>CS-1051M</b>	O.E. No. 14096233; Standard Rotation; Rlr. cam; Use HT-2148 rlr. lifter.
12	Lifter		<b>HT-817</b> Std Only	Hyd.
12	Lifter		<b>HT-2148</b> Std Only	Hyd. rlr.
12	Lifter, Bulk		<b>HT-2148B</b> Std Only	Hyd. rlr.; Carton of 128
12	Lifter, Bulk		<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube		<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		<b>260-1509M</b>	Standard Rotation; Eng. w/o Balance shaft; Two-piece rear main brg. seal & four-piece oil pan gskt. incl.
<b>6 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.)</b> Marine Applications Model 185 (185 HP)				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		<b>KT3-163S</b>	Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
1	Timing Chain		<b>222-163</b>	Double rlr.; 58 Links
1	Crank Sprocket		<b>223-289</b>	Double row; 22 Teeth
1	Cam Sprocket		<b>223-288</b>	Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		<b>CS-274</b>	
16	Lifter		<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk		<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube		<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		<b>KC-274</b>	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod		<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod		<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod		<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod		<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk		<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk		<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk		<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk		<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm		<b>R-826A</b>	
16	Stud		<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud		<b>MR-1949</b>	3/8" x 24 x 2.495"

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**4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 6  
Marine Applications Model 185 (185 HP) (cont.)**

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust		<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk		<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake		<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide		<b>VG-5061</b>	Exh.; .3430" ID, 2.3800" O.A.L.
8	Guide		<b>VG-5005</b>	Int.; .3430" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5005H</b>	Int.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5005T</b>	Int.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk		<b>VG-5005B</b>	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		<b>VG-5005TB</b>	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Spring		<b>VS-677</b>	W/"C" suffix; Incl. damper; 2.0300" Free Height
16	Spring		<b>VS-521</b>	W/"S" suffix; Incl. damper; 2.1090" Free Height
16	Spring, Bulk		<b>VS-677B</b>	W/"C" suffix; Incl. damper; Carton of 250; 2.0300" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal		<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk		<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk		<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.		<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.		<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper		<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper		<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		<b>RC-157S</b>	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Cast Piston		<b>235P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 235NP
8	Cast Piston		<b>235NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual		<b>W235P +</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W235NP
8	Cast Piston - Individual		<b>W235NP</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs
8	Powerforged		<b>L-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		<b>WL-2163F30</b> 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set		<b>E-245K</b> Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-245K</b> Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-245X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set		<b>994M</b> Std-1-10-20-30-40	
1	Rod Set		<b>8-2020CP</b> Std-1-10-20-30-40	
8	Rod Pair		<b>2020CP</b> Std-1-2-10-20-30-40-50	
1	Cam Set		<b>1145M</b> Std Only	Babbitt material; Full round design
1	Cam Set		<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set		<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set		<b>1750M</b> Std Only	2.030" housing bore

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# OMC Marine

<b>6 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.)</b> (cont.) Marine Applications Model 185 (185 HP)						
<b>BLOCK</b>	QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Oil Pump		224-4146	5/8" inlet	
	1	Screen Assy.		224-1246	5/8" inlet tube	
<b>BLOCK</b>	QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Kit Gasket Set		260-1510M	Standard Rotation; Two-piece rear main brg. seal, four-piece oil pan gskt., & rim bolt valve cover gskts. incl.	
	QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit		381-8007			
1	Steel Block Plug Kit		381-4011			
<b>OVERHAUL KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
<b>YEARS</b>	<b>DESCRIPTION</b>			Master	MKP-6271A	----
	Standard Rotation			Master w/o Pistons	MK-6271A	----
<b>7 4.9L 300 OHV V8 (Buick), 3.75" Bore (GMC Eng.)</b> Marine Applications 200 HP (Late Design)						
<b>VALVE TRAIN</b>	QTY	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	3 Piece Set		KT3-359S	Incl. (1) 222-359, (1) 223-323, (1) 223-334	
	1	Timing Chain		222-359	54 Links	
	1	Crank Sprocket		223-323	20 Teeth	
	1	Cam Sprocket		223-334	40 Teeth	
	QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Lifter		HT-896 Std Only	Hyd.	
	16	Lifter, Bulk		HT-896B Std Only	Hyd.; Carton of 126	
	QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Push Rod		RP-3173	8.7230" O.A.L.	
	QTY	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	16	Arm		R-1051		
	QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Guide		VG-5002	Exh.; .3420" ID, 3.0600" O.A.L.	
	8	Guide		VG-5005	Int.; .3430" ID, 2.2500" O.A.L.	
	8	Guide		VG-5005H	Int.; Hardened; .3430" ID, 2.2500" O.A.L.	
8	Guide		VG-5005T	Int.; Threaded; .3425" ID, 2.2500" O.A.L.		
8	Guide, Bulk		VG-5002B	Exh.; Carton of 50; .3420" ID, 3.0600" O.A.L.		
8	Guide, Bulk		VG-5005B	Int.; Carton of 50; .3430" ID, 2.2500" O.A.L.		
8	Guide, Bulk		VG-5005TB	Int.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.		
QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Valve Stem Seal		ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE		
16	Valve Stem Seal Bulk		ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Exh.		245-1500-1 Std Only	1.5045" OD, 1.2500" ID, .2160" Depth		
8	Int.		245-1937-1 Std Only	1.9425" OD, 1.6875" ID, .2480" Depth		
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
32	Keeper		VK-194			
<b>BLOCK</b>	QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	8	Cast Piston		279P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.	
	8	Cast Piston - Individual		W279P Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.835" CD, .9397" Pin Dia., Recessed Head .227" deep x 3.050" dia. - 8.4:1 C.R.	
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set		E-240K Std-20-30-40-60	2-5/64, 1-3/16	
	1	Standard Set		E-240X Std-30-40-60	2-5/64, 1-3/16	
	8	Premium Single Cylinder Set		WE-240K Std-20-30-40-60	2-5/64, 1-3/16	
	8	Standard Single Cylinder Set		WE-240X Std-30-40-60	2-5/64, 1-3/16	
	QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Rod Set		8-2500RAA Std-10-20-30-40	A-Series aluminum bearings	
8	Rod Pair		2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings		
1	Cam Set		1421M Std Only			

**Marine Applications** Models 5.0 Litre (160 HP); 5.0 Litre (170 HP); 5.0 Litre (185 HP); 5.0 Litre High Output (175 HP); 5.0 Litre High Output (190 HP); 5.0 Litre High Output (200 HP); 175 (175 HP); 190 (190 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		KT3-358SA	170 HP; Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	3 Piece Set		KT3-358S	190 HP; Incl. silent type chain; Incl. (1) 222-358, (1) 223-406, (1) 223-431
1	Timing Chain		222-358	Silent type; 58 Links
1	Crank Sprocket		223-431	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket		223-430	170 HP; Use w/Silent type chain; 42 Teeth
1	Cam Sprocket		223-406	190 HP; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-560	Standard Rotation; 170 & 175 HP; Hyd.
1	Camshaft		CS-674	Standard Rotation; 190 HP w/firing order 1-3-7-2-6-5-4-8
16	Lifter		HT-900 Std Only	Hyd.
16	Lifter		HT-900R Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.
16	Lifter, Bulk		HT-900B Std Only	Hyd.; Carton of 122
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-560	Standard Rotation; 170 & 175 HP; Hyd.; Incl. (1) CS-560, (16) HT-900, (1) 55-403B
1	Cam/Lifter Kit		KC-674	Standard Rotation; 190 HP; Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3223R	Chrome-Moly; 6.8850" O.A.L.
16	Push Rod		RP-3167	6.8760" O.A.L.
16	Push Rod, Bulk		BRP-3167	Carton of 100; 6.8760" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		R-847	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut
16	Arm Assy., Bulk		R-847B	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1961 Std-3-15	170 & 175 HP; Chrome plated stem; 1.4600" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Exhaust		V-2044 Std Only	190 HP; w/"A11" & "M" suffix; Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L.
8	Exhaust, Bulk		V-1961B Std-15	170 & 175 HP; Chrome plated stem; Carton of 25; 1.4520" Head Dia., .3415" Stem Dia., 5.0700" O.A.L.
8	Intake		V-1932 Std-15	170 & 175 HP; Chrome plated stem; 1.7810" Head Dia., .3420" Stem Dia., 5.0500" O.A.L.
8	Intake, Bulk		V-1932B15 15	170 & 175 HP; Chrome plated stem; Carton of 25; 1.7810" Head Dia., .3570" Stem Dia., 5.0500" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide		VG-5005	.3430" ID, 2.2500" O.A.L.
16	Guide		VG-5005H	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide		VG-5005T	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk		VG-5005B	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk		VG-5005TB	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		VS-919	Exh.; 170 & 175 HP; 1.9000" Free Height
16	Spring		VS-718	Exh. & Int.; 190 HP; w/"A11" & "M" suffix; 2.0280" Free Height
8	Spring		VS-1435	Int.; 170 & 175 HP; 1.9650" Free Height
8	Spring, Bulk		VS-919B	Exh.; 170 & 175 HP; Carton of 300; 1.9000" Free Height
16	Spring, Bulk		VS-718B	Exh. & Int.; 190 HP; w/"A11" & "M" suffix; Carton of 250; 2.0280" Free Height
8	Spring, Bulk		VS-1435B	Int.; 170 & 175 HP; Carton of 250; 1.9650" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		MV-1796C	170 & 175 HP; Umbrella type; Fits Std. to .015" O/S valve stem; Rubber
16	Valve Stem Seal		MV-1906	190 HP; w/"A11" & "M" suffix; Umbrella type; Nylon
16	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

**VALVE TRAIN**

**VALVE TRAIN**

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# OMC Marine

## 8 5.0L 302 OHV V8, 4" Bore (Ford Eng.)

(cont.) **Marine Applications** Models 5.0 Litre (160 HP); 5.0 Litre (170 HP); 5.0 Litre (185 HP); 5.0 Litre High Output (175 HP); 5.0 Litre High Output (190 HP); 5.0 Litre High Output (200 HP); 175 (175 HP); 190 (190 HP)

QTY	VALVE SEAL (cont.)	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal Bulk		MV-1796	170 & 175 HP; Umbrella type; Fits Std. to .015" O/S valve stem; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115	1 groove; Square cut key groove
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Cast Piston - Individual		W272AP Std-20-30-40-60-80	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Prem. Rings		8K272AP20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
1	Cast Piston Set w/Econ. Rings		8X272AP20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.585" CD, .9122" Pin Dia., Recessed Head .110" deep x 2.910" dia. w/4 valve reliefs - 8.9:1 C.R.
8	Powerforged		L-2305F Std-20-30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		WL-2305F Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.605" CD, .9122" Pin Dia., Recessed Head .068" deep w/4 valve reliefs and pressed pin. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-251K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		E-251KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-251X Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-251K Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-251KC Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-251X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		7151M10 10-20-30	.020" O/S length flange brg.
1	Main Set		4125MA Std-1-10-20-30-40	<b>A-Series aluminum bearings;</b> Incl. contoured design thrust brg.
1	Main Set		4125M Std-1-10-20-30-40	Incl. contoured design thrust brg.
1	Rod Set		8-2600A Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2600A10X2 10X2-20X2-30X2	<b>A-Series aluminum bearings;</b> Use in .002" O/S Rod Bore
1	Rod Set		8-2600CP10X2 10X2-20X2-30X2	Use in .002" O/S Rod Bore
1	Rod Set		8-2600CP Std-1-2-10-20-30-40	8-2600CA 60 avail. as unplated & resizeable
1	Rod Set		8-2600CA60 60	Unplated & resizeable
8	Rod Pair		2600CP Std-1-2-10-20-30-40	
8	Rod Pair		2600A Std-1-2-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set		1204M Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-41118	
1	Inter. Shaft		224-61118	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8015	

## 9 5.0L 307 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.)

**Marine Applications** Models 210 (210 HP); 215 (215 HP); 225 (225 HP); 230 (230 HP); 235 (235 HP); 245 (245 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain		222-163	Double rlr.; 58 Links
1	Cam Sprocket		223-288	Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-274	210 & 215 HP

(continued on next page)



**5.0L 307 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 9**  
**Marine Applications Models 210 (210 HP); 215 (215 HP); 225 (225 HP); 230 (230 HP); 235 (235 HP); (cont.)**  
**245 (245 HP)**

<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	(cont.) Lifter		<b>HT-817</b> Std Only	Hyd.
16	Lifter, Bulk		<b>HT-817B</b> Std Only	Hyd.; Carton of 128
1	Prelube		<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>QTY</b>	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Cam/Lifter Kit		<b>KC-274</b>	210 & 215 HP; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Push Rod		<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod		<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod		<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod		<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod		<b>RP-3093</b>	7.7940" O.A.L.
16	Push Rod, Bulk		<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk		<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk		<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Arm		<b>R-862</b>	
16	Arm, Bulk		<b>R-862B</b>	Carton of 64
16	Stud		<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud		<b>MR-1949</b>	3/8" x 24 x 2.495"
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exhaust		<b>V-1888X</b> Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust		<b>V-1199</b> Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk		<b>V-1199B</b> Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake		<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake		<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk		<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Guide		<b>VG-5005</b>	.3430" ID, 2.2500" O.A.L.
16	Guide		<b>VG-5005H</b>	Hardened; .3430" ID, 2.2500" O.A.L.
16	Guide		<b>VG-5005T</b>	Threaded; .3425" ID, 2.2500" O.A.L.
16	Guide, Bulk		<b>VG-5005B</b>	Carton of 50; .3430" ID, 2.2500" O.A.L.
16	Guide, Bulk		<b>VG-5005TB</b>	Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring		<b>VS-727</b>	Exh.; 245 HP Ser. No. 990318A & 230 HP; Incl. damper; 1.9100" Free Height
16	Spring		<b>VS-677</b>	Exh. & Int.; Exc. 245 HP Ser. 990318A & 230 HP; Incl. damper; 2.0300" Free Height
8	Spring		<b>VS-677</b>	Int.; 245 HP Ser. No. 990318A & 230 HP; Incl. damper; 2.0300" Free Height
8	Spring, Bulk		<b>VS-727B</b>	Exh.; 245 HP Ser. No. 990318A & 230 HP; Incl. damper; Carton of 250; 1.9100" Free Height
16	Spring, Bulk		<b>VS-677B</b>	Exh. & Int.; Exc. 245 HP Ser. 990318A & 230 HP; Incl. damper; Carton of 250; 2.0300" Free Height
8	Spring, Bulk		<b>VS-677B</b>	Int.; 245 HP Ser. No. 990318A & 230 HP; Incl. damper; Carton of 250; 2.0300" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal		<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk		<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk		<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Exh.		<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.		<b>245-1812-4</b> Std Only	1.8175" OD, 1.5625" ID, .2160" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper		<b>VK-115</b>	1 groove; Square cut key groove

**VALVE TRAIN**

**VALVE TRAIN**

(continued on next page)

# OMC Marine

## 9 5.0L 307 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.)

(cont.) **Marine Applications** Models 210 (210 HP); 215 (215 HP); 225 (225 HP); 230 (230 HP); 235 (235 HP); 245 (245 HP)

QTY	VALVE, MISC (cont.)	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		295AP + Std-20-30-40-60	225 & 245 Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 295P
8	Cast Piston		295P * Std-20-30-40-60	225 & 245 Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual		W295AP + Std Only	225 & 245 Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W295P
8	Cast Piston - Individual		W295P * Std Only	225 & 245 Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.655" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-245K Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-245X Std-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-245K Std-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-245X Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4663M Std-1-2-10-20-30-40-60	
1	Main Set		4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2555CP Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set		8-2555CA60 60	Unplated & resizeable
8	Rod Pair		2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair		2555CP Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair		2555CA60 60	Unplated & resizeable
1	Cam Set		1235M Std-1-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		224-4146	5/8" inlet
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		260-1510M	Standard Rotation; Two-piece rear main brg. seal, four-piece oil pan gskt., & rim bolt valve cover gskts. incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		381-8007	
1	Steel Block Plug Kit		381-4011	

## 10 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.)

**Marine Applications** Models 250/5.7 Litre (215 HP); 250/5.7 Litre (220 HP); 250/5.7 Litre (250 HP); 250/5.7 Litre (260 HP); 250/5.7 Litre (270 HP); 250/5.7 Litre (290 HP); 250 King Cobra (235 HP); 250 King Cobra (270 HP); 260 (250 HP); 260 (260 HP); 260 (270 HP); 260 (290 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain		222-163	Double rlr.; 58 Links
1	Cam Sprocket		223-288	Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		CS-274	Standard Rotation
16	Lifter		HT-817 Std Only	Hyd.
16	Lifter, Bulk		HT-817B Std Only	Hyd.; Carton of 128
1	Prelube		55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit		KC-274	Standard Rotation; Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod		RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod		RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod		RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod		RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod		RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk		BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk		BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk		BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.

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**5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 10**

**Marine Applications** Models 250/5.7 Litre (215 HP); 250/5.7 Litre (220 HP); 250/5.7 Litre (250 HP); (cont.) 250/5.7 Litre (260 HP); 250/5.7 Litre (270 HP); 250/5.7 Litre (290 HP); 250 King Cobra (235 HP); 250 King Cobra (270 HP); 260 (250 HP); 260 (260 HP); 260 (270 HP); 260 (290 HP)

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.		<b>R-826</b>	Incl. arm, ball & nut
16	Arm Assy., Bulk		<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
16	Arm		<b>R-826A</b>	
16	Stud		<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
16	Stud		<b>MR-1949</b>	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		<b>V-1888X</b> Std-15	250 & 260 HP; w/o "M" & "M1" suffixes; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust		<b>V-1904</b> Std-3-15-30	260 HP; w/"M" & "M1" suffixes; Chrome plated stem; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk		<b>V-1904B</b> Std-15	260 HP; w/"M" & "M1" suffixes; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3414" Stem Dia., 4.9280" O.A.L.
8	Intake		<b>V-1927</b> Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake		<b>V-1926</b> Std-3-15	Chrome plated stem; 1.9400" Head Dia., .3414" Stem Dia., 4.8800" O.A.L.
8	Intake, Bulk		<b>V-1927B</b> Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		<b>V-1926B</b> Std-15	Chrome plated stem; Carton of 25; 1.9400" Head Dia., .3410" Stem Dia., 4.8800" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		<b>VG-5005</b>	Exh.; 250 & 260 HP; .3430" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5005H</b>	Exh.; 250 & 260 HP; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5005T</b>	Exh.; 250 & 260 HP; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5046</b>	Exh.; 290 HP; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide		<b>VG-5038</b>	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk		<b>VG-5005B</b>	Exh.; 250 & 260 HP; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		<b>VG-5005TB</b>	Exh.; 250 & 260 HP; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk		<b>VG-5038B</b>	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring		<b>VS-727</b>	Exh.; 260 HP; Incl. damper; 1.9100" Free Height
16	Spring		<b>VS-677</b>	Exh. & Int.; 250 & 290 HP; Incl. damper; 2.0300" Free Height
16	Spring		<b>VS-677</b>	Exh. & Int.; 260 HP; Incl. damper; 2.0300" Free Height
8	Spring, Bulk		<b>VS-727B</b>	Exh.; 260 HP; Incl. damper; Carton of 250; 1.9100" Free Height
16	Spring, Bulk		<b>VS-677B</b>	Exh. & Int.; 250 & 290 HP; Incl. damper; Carton of 250; 2.0300" Free Height
16	Spring, Bulk		<b>VS-677B</b>	Exh. & Int.; 260 HP; Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		<b>MV-1903</b>	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		<b>ST-2001</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		<b>MV-1233C</b>	O-Ring; Rubber
16	Valve Stem Seal Bulk		<b>MV-1233</b>	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk		<b>ST-2001BC</b>	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		<b>245-1562-1N</b> Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		<b>245-1562-1</b> Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
8	Int.		<b>245-1812-4</b> Std Only	Exc. 290 HP; 1.8175" OD, 1.5625" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		<b>VK-115</b>	1 groove; Square cut key groove
32	Keeper		<b>VK-115R</b>	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		<b>VK-115B</b>	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		<b>RC-157S</b>	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		<b>399P30</b> 30-40	250 & 260 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/2 valve reliefs - 9.0:1 C.R.
8	Cast Piston		<b>H580CP</b> Std-20-30-40-60-80	250, 260 & 290 HP; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

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# OMC Marine

**10 5.7L 350 OHV V8 (Chevrolet), 4" Bore (GMC Eng.)**  
**(cont.) Marine Applications** Models 250/5.7 Litre (215 HP); 250/5.7 Litre (220 HP); 250/5.7 Litre (250 HP); 250/5.7 Litre (260 HP); 250/5.7 Litre (270 HP); 250/5.7 Litre (290 HP); 250 King Cobra (235 HP); 250 King Cobra (270 HP); 260 (250 HP); 260 (260 HP); 260 (270 HP); 260 (290 HP)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		<b>H580P</b> Std-20-30-40-60-80	250, 260 & 290 HP; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs
8	Cast Piston - Individual		<b>W399P30</b> 30-40	250 & 260 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/2 valve reliefs - 9.0:1 C.R.
8	Cast Piston - Individual		<b>WH580P</b> Std-20-30-40-60-80	250, 260 & 290 HP; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs
1	Cast Piston Set w/Prem. Rings		<b>8KH580CP30</b> 30-40-60	250, 260 & 290 HP; Cast; 2-5/64", 1-3/16" Ring Groove, 1.550" CD, .9275" Pin Dia., Recessed Head .185" deep x 3.300" dia. w/2 valve reliefs; <b>DurOshield® skirt coated piston</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set		<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set		<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set		<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set		<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings</b> ; w/.020" O/S OD
1	Rod Set		<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set		<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set		<b>8-2555CA60</b> 60	Unplated & resizeable
8	Rod Pair		<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair		<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair		<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set		<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set		<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set		<b>1750M</b> Std Only	2.030" housing bore
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		<b>260-1517M</b>	Reverse Rotation; One-piece rear main brg. seal, one-piece oil pan gskt. & both rim bolt & center bolt valve cover gskts. incl.
1	Kit Gasket Set		<b>260-1516M</b>	Standard Rotation; One-piece rear main brg. seal, one-piece oil pan gskt., & both rim bolt & center bolt valve cover gskts. incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		<b>381-8007</b>	
1	Steel Block Plug Kit		<b>381-4011</b>	

**11 5.8L 351 OHV V8 (Windsor), 4" Bore (Ford Eng.) 1990-68**  
**Marine Applications** Models 5.8 Litre (210 HP); 5.8 Litre (215 HP); 5.8 Litre (235 HP); 5.8 Litre Cobra (240 HP); 250 (250 HP); 351 King Cobra (260 HP)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set		<b>KT3-358SA</b>	Incl. silent type chain; Incl. (1) 222-358, (1) 223-430, (1) 223-431
1	Timing Chain		<b>222-358</b>	Silent type; 58 Links
1	Crank Sprocket		<b>223-431</b>	If eng. is equipped with an oil shield, the oil shield must be discarded when installing crank sprocket 223-431; Use w/Silent type chain; 21 Teeth
1	Cam Sprocket		<b>223-430</b>	Use w/Silent type chain; 42 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft		<b>CS-674</b>	Standard Rotation
16	Lifter		<b>HT-900</b> Std Only	Hyd.
16	Lifter		<b>HT-900R</b> Std Only	Speed-Pro Hi-Revolution Hyd.; Use w/adj. rocker assy.

(continued on next page)

**5.8L 351 OHV V8 (Windsor), 4" Bore (Ford Eng.) 1990-68 11**  
**Marine Applications Models 5.8 Litre (210 HP); 5.8 Litre (215 HP); 5.8 Litre (235 HP); 5.8 Litre Cobra (cont.)**  
**(240 HP); 250 (250 HP); 351 King Cobra (260 HP)**

	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	QTY 16 1		<b>HT-900B</b> Std Only <b>55-400</b>	Hyd.; Carton of 122 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY 1		<b>KC-674</b>	Standard Rotation; Hyd.; Incl. (1) CS-674, (16) HT-900, (1) 55-403B	
	QTY 16 16		<b>RP-3225R</b> <b>RP-3166</b>	Chrome-Moly; 8.1440" O.A.L. Std. length; 8.1420" O.A.L.	
	QTY 16 16		<b>R-847</b> <b>R-847B</b>	Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut Incl. arm, ball & nut; rail style rockers; Cast iron; w/stud type mount; Incl. 3/8" nut; Incl. 5/16" nut; Carton of 64	
	QTY 8 8 8 8 8		<b>V-2044</b> Std Only <b>V-1893</b> Std-15 <b>V-1893B15</b> 15 <b>V-3926</b> Std-15 <b>V-3926B15</b> 15	Chrome plated stem; 1.4610" Head Dia., .3414" Stem Dia., 5.0700" O.A.L. Chrome plated stem; 1.5400" Head Dia., .3415" Stem Dia., 5.0700" O.A.L. Chrome plated stem; Carton of 25; 1.5400" Head Dia., .3565" Stem Dia., 5.0700" O.A.L. Chrome plated stem; 1.8420" Head Dia., .3420" Stem Dia., 5.0700" O.A.L. Chrome plated stem; Carton of 25; 1.8410" Head Dia., .3570" Stem Dia., 5.0700" O.A.L.	
	QTY 16 16 16 16 16		<b>VG-5005</b> <b>VG-5005H</b> <b>VG-5005T</b> <b>VG-5005B</b> <b>VG-5005TB</b>	.3430" ID, 2.2500" O.A.L. Hardened; .3430" ID, 2.2500" O.A.L. Threaded; .3425" ID, 2.2500" O.A.L. Carton of 50; .3430" ID, 2.2500" O.A.L. Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.	
	QTY 16 16 16 16		<b>VS-718</b> <b>VS-682</b> <b>VS-718B</b> <b>VS-682B</b>	From 4/23/70; 2.0280" Free Height To 4/22/70; Incl. damper; 2.1200" Free Height From 4/23/70; Carton of 250; 2.0280" Free Height To 4/22/70; Incl. damper; Carton of 200; 2.1200" Free Height	
	QTY 16 16 16 16		<b>MV-1903</b> <b>ST-2001</b> <b>MV-1906</b> <b>ST-2001BC</b>	Use w/repair guide; Positive type; Rubber Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE Umbrella type; Nylon Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
	QTY 8 8		<b>245-1562-1</b> Std Only <b>245-1625-1</b> Std Only	1975-76; 1.5675" OD, 1.3125" ID, .2160" Depth 1968-74; 1.6300" OD, 1.3750" ID, .2160" Depth	
	QTY 32 32 32		<b>VK-115</b> <b>VK-115R</b> <b>VK-115B</b>	1 groove; Square cut key groove 1 groove; Square cut key groove; Hardened 1 groove; Square cut key groove; Carton of 1000	
	BLOCK	QTY 8		<b>463P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
		8		<b>W463P</b> Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
		1		<b>8K463P30</b> 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
		1		<b>8X463P30</b> 30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.752" CD, .9122" Pin Dia., Recessed Head .140" deep w/2 valve reliefs - 8.1:1 C.R.
		8		<b>L-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep. <b>DurOshield® skirt coated piston.</b>

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# OMC Marine

**11 5.8L 351 OHV V8 (Windsor), 4" Bore (Ford Eng.) 1990-68**  
 (cont.) **Marine Applications** Models 5.8 Litre (210 HP); 5.8 Litre (215 HP); 5.8 Litre (235 HP); 5.8 Litre Cobra (240 HP); 250 (250 HP); 351 King Cobra (260 HP)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
8	Forged Piston - Individual		<b>WL-2446F</b> Std-30-40	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.772" CD, .9122" Pin Dia., Recessed Head .110" deep. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-77	<b>7154M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set		<b>5078M</b> Std-1-10-20-30-40	
1	Main Set		<b>5107M</b> Std-1-10-20-30-40	
1	Main Set		<b>5078MA</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-3380CPA</b> Std-1-10-20-30-40	
1	Rod Set		<b>8-3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-3380A10X2</b> 10X2-20X2-30X2	<b>A-Series aluminum bearings; Use in .002" O/S Rod Bore</b>
1	Rod Set		<b>8-3380CPA10X2</b> 10X2-20X2-30X2	Use in .002" O/S Rod Bore
8	Rod Pair		<b>3380CPA</b> Std-1-10-20-30-40	
8	Rod Pair		<b>3380A</b> Std-1-10-20-30-40	<b>A-Series aluminum bearings</b>
1	Cam Set		<b>1204M</b> Std-10	Babbitt material; Full round design
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		<b>224-41143</b>	
1	Inter. Shaft		<b>224-61143</b>	
1	Screen Assy.		<b>224-11143</b>	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		<b>381-8015</b>	

# Opel

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.1L 1077cc OHV L4 75mm Bore (8 Valve) .....	1974-64	1	1.9L 1897cc SOHC L4 93mm Bore (8 Valve).....	1975-68	4
1.5L 1492cc SOHC L4 82.5mm Bore (8 Valve).....	1968	2			
1.8L 1817cc SOHC L4 84mm Bore (8 Valve) (Isuzu Eng.) .....	1979-76	3			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G180Z.....	1.8L 1817cc SOHC L4 84mm Bore (8 Valve) (Isuzu Eng.).....	3	1.9S.....	1.9L 1897cc SOHC L4 93mm Bore (8 Valve) .....	4

**1 1.1L 1077cc OHV L4 (8 Valve), 75mm Bore 1974-64**  
 Eng. Codes "1.1N" 1965-74, "1.1R" 1969-72, "1.1S" 1970, "1.1SR" 1964-70

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Spring Insert	74-64	<b>259-106B</b>	.030"; Carton of 100

**2 1.5L 1492cc SOHC L4 (8 Valve), 82.5mm Bore 1968**  
 Eng. Code "1.5S" 1968

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	68	<b>222-340CT</b>	

**3 1.8L 1817cc SOHC L4 (8 Valve), 84mm Bore (Isuzu Eng.) 1979-76**  
 VIN Code "B" 1976-79, Eng. Code "G180Z" 1976-79

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	79-76	<b>CS-720</b>	
1	Prelube	79-76	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

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# Opel

## 1.8L 1817cc SOHC L4 (8 Valve), 84mm Bore (Isuzu Eng.) 1979-76 **3**

VIN Code "B" 1976-79, Eng. Code "G180Z" 1976-79 (cont.)

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
8	Arm	79-76	R-901		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	79-76	V-2180 Std Only	Chrome plated stem; 1.3360" Head Dia., .3125" Stem Dia., 4.3620" O.A.L.	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	79-76	VG-697	Exh.; .3148" ID, 2.1600" O.A.L.	
4	Guide	79-76	VG-698	Int.; .3145" ID, 1.8000" O.A.L.	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
4	Int.	79-76	245-1750-51 Std Only	1.600" ID top taper; 1.7570" OD, 1.4100" ID, .2800" Depth	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	79-76	VK-215		
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
1	Pin Bushing Set	79-76	4-3574Y		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	79-76	E-357KC Std-1.00MM	2-2.00MM, 1-4.00MM	
1	Standard Set	79-76	E-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	79-76	WE-357KC Std-.50-.75MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	79-76	WE-357X Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	79-76	5028M Std-.25-.50-.75MM		
1	Thrust Washer Set	79-76	3571BF Std Only	Position 3	
1	Rod Set	79-76	4-3570CPB Std-.25-.50-.75-1.00MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	79-76	260-1090	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	
RE-RING KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
		79-76	PermaDry® molded rubber oil pan gskt. incl.; Premium valve stem seals incl.	205-829	205-329

## 1.9L 1897cc SOHC L4 (8 Valve), 93mm Bore 1975-68 **4**

Eng. Code "1.9S" 1967-75

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	75-68	222-340CT	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	75-68	245-1500-3 Std Only	1.5045" OD, 1.2500" ID, .2480" Depth
4	Int.	75-68	245-1750-4 Std Only	1.7555" OD, 1.4375" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Spring Insert	75-68	259-200B	.030"; Carton of 100
8	Spring Insert	75-68	259-200A	.060"; Carton of 100

# Peugeot

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.5L 1468cc OHV L4 80mm Bore (8 Valve) .....	1967-60	1	1.9L 1905cc DOHC L4 83mm Bore (16 Valve) .....	1990-89	5
1.6L 1618cc OHV L4 84mm Bore (8 Valve) .....	1969-61	2	2.0L 1971cc OHV L4 88mm Bore (8 Valve) .....	1987-71	6
1.8L 1796cc OHV L4 84mm Bore (8 Valve) .....	1970	3	2.1L 2112cc OHV Diesel L4 90mm Bore (8 Valve) ..	1976-74	7
1.9L 1905cc SOHC L4 83mm Bore (8 Valve).....	1990-89	4			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
XC-5 .....	1.6L 1618cc OHV L4 84mm Bore (8 Valve) .....	2	XN-2 .....	2.0L 1971cc OHV L4 88mm Bore (8 Valve) .....	6
XC-6 .....	1.6L 1618cc OHV L4 84mm Bore (8 Valve) .....	2	XN-6 .....	2.0L 1971cc OHV L4 88mm Bore (8 Valve) .....	6
XD-90 .....	2.1L 2112cc OHV Diesel L4 90mm Bore (8 Valve) .....	7	XU-9J2.....	1.9L 1905cc SOHC L4 83mm Bore (8 Valve) .....	4
XM-1 .....	1.8L 1796cc OHV L4 84mm Bore (8 Valve) .....	3	XU-9J4.....	1.9L 1905cc DOHC L4 83mm Bore (16 Valve) .....	5
XN-1 .....	2.0L 1971cc OHV L4 88mm Bore (8 Valve) .....	6			

# Peugeot

<b>1 1.5L 1468cc OHV L4 (8 Valve), 80mm Bore 1967-60</b> Eng. Codes "TN-3" 1955-65, "XB-2" 1955-65, "XB-5" 1966-67						
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Rod Set	67-60	4-2865RA Std Only	404 crankshaft rod journals can be reground to .50MM; 504 crankshaft has roll-hardened journals and can be reground to only .30MM		
<b>2 1.6L 1618cc OHV L4 (8 Valve), 84mm Bore 1969-61</b> Eng. Codes "XC-5" 1961-66, "XC-6" 1967-70						
QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
1	Pin Bushing Set	69-64	4-2514X			
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Rod Set	69-61	4-2865RA Std Only	404 crankshaft rod journals can be reground to .50MM; 504 crankshaft has roll-hardened journals and can be reground to only .30MM		
<b>3 1.8L 1796cc OHV L4 (8 Valve), 84mm Bore 1970</b> Eng. Code "XM-1" 1969-70						
QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
1	Pin Bushing Set	70	4-2514X			
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Rod Set	70	4-2865RA Std Only	404 crankshaft rod journals can be reground to .50MM; 504 crankshaft has roll-hardened journals and can be reground to only .30MM		
<b>4 1.9L 1905cc SOHC L4 (8 Valve), 83mm Bore 1990-89</b> Eng. Code "XU-9J2" 1989-92						
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Rod Set	90-89	4-1305RA Std Only			
<b>5 1.9L 1905cc DOHC L4 (16 Valve), 83mm Bore 1990-89</b> Eng. Code "XU-9J4" 1989-92						
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Rod Set	90-89	4-1305RA Std Only			
<b>6 2.0L 1971cc OHV L4 (8 Valve), 88mm Bore 1987-71</b> Eng. Codes "XN-1" 1971-79, "XN-2" 1980-87, "XN-6" 1971-87						
<b>B L O C K</b>	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
	1	Pin Bushing Set	87-71	4-2514X		
	1	Main Set	81	6354M Std Only	To 10/81; 504 crankshaft has roll-hardened journals and can be reground to only .30MM	
	1	Main Set	80-71	6354M Std Only	504 crankshaft has roll-hardened journals and can be reground to only .30MM	
	1	Thrust Washer Set	87-71	61904BF Std Only	Position 5; w/A/T	
	1	Rod Set	87-71	4-2865RA Std Only	404 crankshaft rod journals can be reground to .50MM; 504 crankshaft has roll-hardened journals and can be reground to only .30MM	
<b>B L O C K</b>	<b>7 2.1L 2112cc OHV Diesel L4 (8 Valve), 90mm Bore 1976-74</b> Eng. Code "XD-90" 1974-76					
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
	1	Premium Set	76-74	E-827KC Std Only	3-2.00MM, 1-4.50MM	

**Plymouth - See Chrysler Corp. Car**

**Plymouth Minivans - See Dodge Truck**

**Pontiac - See GM Car**

**Renault**

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 1289cc OHV L4 73mm Bore (8 Valve) .....	1979-76	1	1.6L 1565cc OHV Turbo L4 77mm Bore (8 Valve)...	1983-82	4
1.4L 1397cc OHV L4 76mm Bore (8 Valve) .....	1987-80	2	1.6L 1647cc OHV L4 79mm Bore (8 Valve) .....	1983-72	5
1.6L 1565cc OHV L4 77mm Bore (8 Valve) .....	1975-69	3			



Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
A7L	1.6L 1565cc OHV Turbo L4 77mm Bore (8 Valve)	4	821	1.6L 1565cc OHV L4 77mm Bore (8 Valve)	3
C3J	1.4L 1397cc OHV L4 76mm Bore (8 Valve)	2	841	1.6L 1647cc OHV L4 79mm Bore (8 Valve)	5
807	1.6L 1565cc OHV L4 77mm Bore (8 Valve)	3	843	1.6L 1647cc OHV L4 79mm Bore (8 Valve)	5
810	1.3L 1289cc OHV L4 73mm Bore (8 Valve)	1	847	1.4L 1397cc OHV L4 76mm Bore (8 Valve)	2
<b>1.3L 1289cc OHV L4 (8 Valve), 73mm Bore 1979-76</b>					<b>1</b>
Eng. Code "810" 1968-79					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	79-76	60476BF Std Only	Position 3	
<b>1.4L 1397cc OHV L4 (8 Valve), 76mm Bore 1987-80</b>					<b>2</b>
Eng. Codes "C3J" 1983-87, "847" 1980-84					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Chain	82-81	222-3DR58	Double rlr.; 58 Links	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	87-80	60476BF Std Only	Position 3	
<b>1.6L 1565cc OHV L4 (8 Valve), 77mm Bore 1975-69</b>					<b>3</b>
Eng. Codes "807" 1972-75, "821" 1968-72					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	75-69	60476BF Std Only	Position 3	
<b>1.6L 1565cc OHV Turbo L4 (8 Valve), 77mm Bore 1983-82</b>					<b>4</b>
Eng. Code "A7L" 1982-85					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	83-82	60476BF Std Only	Position 3	
<b>1.6L 1647cc OHV L4 (8 Valve), 79mm Bore 1983-72</b>					<b>5</b>
Eng. Code "841" 1972-74 & 1981-83, "843" 1974-79					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Thrust Washer Set	83-81	60476BF Std Only	Position 3	
1	Thrust Washer Set	79-72	60476BF Std Only	Position 3	

## Rover Truck

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.3L 2286cc OHV L4 90.5mm Bore (8 Valve) L/D Truck	1973-58	1	3.5L 3528cc OHV V8 88.9mm Bore (Buick) L/D Truck	1988-70	2
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
14D	3.5L 3528cc OHV V8 88.9mm Bore (Buick) L/D Truck	2	398	3.5L 3528cc OHV V8 88.9mm Bore (Buick) L/D Truck	2
355	3.5L 3528cc OHV V8 88.9mm Bore (Buick) L/D Truck	2			
<b>2.3L 2286cc OHV L4 (8 Valve), 90.5mm Bore 1973-58</b>					<b>1</b>
L/D Truck					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	73-58	E-658KC Std Only	2-.071, 1-3/16	
<b>3.5L 3528cc OHV V8 (Buick), 88.9mm Bore 1988-70</b>					<b>2</b>
L/D Truck Eng. Codes "14D" 1982-86, "31D" 1987-88, "355" 1972-77, "398" 1978-81					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	73-70	E-236K Std-30	2-5/64, 1-3/16	
1	Standard Set	73-70	E-236X Std-30-40	2-5/64, 1-3/16	
8	Premium Single Cylinder Set	73-70	WE-236K Std-30	2-5/64, 1-3/16	

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# Rover Truck

<b>2 3.5L 3528cc OHV V8 (Buick), 88.9mm Bore 1988-70</b>					
<b>(cont.) L/D Truck Eng. Codes "14D" 1982-86, "31D" 1987-88, "355" 1972-77, "398" 1978-81</b>					
<b>B L O C K</b>	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	8	Standard Single Cylinder Set	73-70	WE-236X Std-30-40	2-5/64, 1-3/16
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	88-70	4096MA Std-10-20-30	A-Series aluminum bearings
	1	Main Set	88-70	7427MA40 40	A-Series aluminum bearings; w/.020" O/S length flange brg.
	1	Rod Set	88-70	8-2500RAA Std-10-20-30-40	A-Series aluminum bearings
8	Rod Pair	88-70	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings	
1	Cam Set	88-70	1421M Std Only		

# Saab

<b>Engine Finding Index</b>					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.5L 1498cc OHV V4 90mm Bore (8 Valve) (Ford Europe Eng.)	1969-67	1	2.0L 1985cc DOHC Turbo L4 90mm Bore (16 Valve)	1990-85	4
1.7L 1699cc OHV V4 90mm Bore (8 Valve) (Ford Europe Eng.)	1974-69	2	2.0L 1985cc SOHC L4 90mm Bore (8 Valve)	1988-73	5
2.0L 1985cc DOHC L4 90mm Bore (16 Valve)	1990-86	3	2.0L 1985cc SOHC Turbo L4 90mm Bore (8 Valve)	1984-78	6

<b>Engine Code Index</b>					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
B20	2.0L 1985cc SOHC L4 90mm Bore (8 Valve)	5	B202L	2.0L 1985cc DOHC Turbo L4 90mm Bore (16 Valve)	4
B201	2.0L 1985cc SOHC L4 90mm Bore (8 Valve)	5	B204L	2.0L 1985cc DOHC Turbo L4 90mm Bore (16 Valve)	4
B2011	2.0L 1985cc SOHC L4 90mm Bore (8 Valve)	5	B205L	2.0L 1985cc DOHC Turbo L4 90mm Bore (16 Valve)	4
B202	2.0L 1985cc SOHC Turbo L4 90mm Bore (8 Valve)	6	B205R	2.0L 1985cc DOHC Turbo L4 90mm Bore (16 Valve)	4
B2021	2.0L 1985cc DOHC L4 90mm Bore (16 Valve)	3			

<b>1 1.5L 1498cc OHV V4 (8 Valve), 90mm Bore (Ford Europe Eng.) 1969-67</b>					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	69-67	4-3055CP10 10		
4	Rod Pair	69-67	3055CP Std-10-20-30		

<b>2 1.7L 1699cc OHV V4 (8 Valve), 90mm Bore (Ford Europe Eng.) 1974-69</b>					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	74-69	4-3055CP10 10		
4	Rod Pair	74-69	3055CP Std-10-20-30		

<b>3 2.0L 1985cc DOHC L4 (16 Valve), 90mm Bore 1990-86</b>					
Eng. Code "B2021" 1986-90					
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Int.	90-86	245-1375-51 Std Only	1.3820" OD, 1.0600" ID, .2800" Depth	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	90-86	4-1470CP Std-.25MM		

<b>4 2.0L 1985cc DOHC Turbo L4 (16 Valve), 90mm Bore 1990-85</b>					
Eng. Codes "B202L" 1985-94, "B204L" 1994-98, "B205L" 1999-2001, "B205R" 1999-2003					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	90-85	4-1470CP Std-.25MM		

<b>5 2.0L 1985cc SOHC L4 (8 Valve), 90mm Bore 1988-73</b>					
Eng. Codes "B20" 1972-80, "B201" 1981-88, "B2011" 1979-88					
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	81-75	VG-774	Std. OD; .3145" ID, 1.8425" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	88-73	ST-2056	Positive type; Rubber	
8	Valve Stem Seal	88-73	ST-2137	Positive type; Viton®	

(continued on next page)

<b>2.0L 1985cc SOHC L4 (8 Valve), 90mm Bore 1988-73</b> <b>5</b>				
Eng. Codes "B20" 1972-80, "B201" 1981-88, "B201L" 1979-88 (cont.)				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Rod Set	88-73	<b>4-1470CP</b> Std-.25MM	

<b>2.0L 1985cc SOHC Turbo L4 (8 Valve), 90mm Bore 1984-78</b> <b>6</b>				
Eng. Code "B201L" 1978-84				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Rod Set	84-78	<b>4-1470CP</b> Std-.25MM	

## Standard Motors

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.3L 1296cc OHV L4 73.7mm Bore (8 Valve) .....	1972-70	1	2.5L 2498cc OHV L6 74.7mm Bore (12 Valve) .....	1976-68	4
1.5L 1493cc OHV L4 73.7mm Bore (8 Valve) .....	1980-73	2	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	1981-77	5
2.0L 1998cc OHV L6 74.7mm Bore (12 Valve) .....	1973-67	3			

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
ADM.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve) .....	2	KD.....	2.0L 1998cc OHV L6 74.7mm Bore (12 Valve) .....	3
ADS.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve) .....	2	KF.....	2.0L 1998cc OHV L6 74.7mm Bore (12 Valve) .....	3
CC.....	2.5L 2498cc OHV L6 74.7mm Bore (12 Valve) .....	4	10E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
CF.....	2.5L 2498cc OHV L6 74.7mm Bore (12 Valve) .....	4	11E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
CP.....	2.5L 2498cc OHV L6 74.7mm Bore (12 Valve) .....	4	12E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
CR.....	2.5L 2498cc OHV L6 74.7mm Bore (12 Valve) .....	4	13E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
FE.....	1.3L 1296cc OHV L4 73.7mm Bore (8 Valve) .....	1	14E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
FM.....	1.5L 1493cc OHV L4 73.7mm Bore (8 Valve) .....	2	15E.....	3.5L 3528cc OHV V8 88.9mm Bore (Buick) (Rover Eng.) .....	5
KC.....	2.0L 1998cc OHV L6 74.7mm Bore (12 Valve) .....	3			

<b>1.3L 1296cc OHV L4 (8 Valve), 73.7mm Bore 1972-70</b> <b>1</b>				
Eng. Code "FE" 1967-72				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	72-70	<b>65931AF</b> Std Only	Position 3

<b>1.5L 1493cc OHV L4 (8 Valve), 73.7mm Bore 1980-73</b> <b>2</b>				
Eng. Codes "ADM" 1973-80, "ADS" 1973-80, "FM" 1973-80				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	80-73	<b>65931AF</b> Std Only	Position 3

<b>2.0L 1998cc OHV L6 (12 Valve), 74.7mm Bore 1973-67</b> <b>3</b>				
Eng. Codes "KC" 1967, "KD" 1968-71, "KF" 1972-73				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	73-67	<b>65931AF</b> Std Only	Position 3

<b>2.5L 2498cc OHV L6 (12 Valve), 74.7mm Bore 1976-68</b> <b>4</b>				
Eng. Codes "CC" 1967-76, "CF" 1974-76, "CP" 1972-76, "CR" 1974-76				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	76-68	<b>65931AF</b> Std Only	Position 3

<b>3.5L 3528cc OHV V8 (Buick), 88.9mm Bore (Rover Eng.) 1981-77</b> <b>5</b>				
Eng. Codes "10E" 1977-82, "11E" 1977-82, "12E" 1977-82, "13E" 1977-82, "14E" 1980-82, "15E" 1980-82				
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	81-77	<b>4096MA</b> Std-10-20-30	<b>A-Series aluminum bearings</b>
1	Main Set	81-77	<b>7427MA40</b> 40	<b>A-Series aluminum bearings; w/.020" O/S length flange brg.</b>
1	Rod Set	81-77	<b>8-2500RAA</b> Std-10-20-30-40	<b>A-Series aluminum bearings</b>

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# Standard Motors

**5 3.5L 3528cc OHV V8 (Buick), 88.9mm Bore (Rover Eng.) 1981-77**  
 (cont.) Eng. Codes "10E" 1977-82, "11E" 1977-82, "12E" 1977-82, "13E" 1977-82, "14E" 1980-82, "15E" 1980-82

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	81-77	2500RAA Std-1-2-10-20-30-40	A-Series aluminum bearings
1	Cam Set	81-77	1421M Std Only	

# Studebaker Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.8L 169.6 OHV L6 3" Bore (12 Valve) .....	1964-61	..... 1	4.2L 259 OHV V8 3.5625" Bore (16 Valve) .....	1964-55	..... 5
3.2L 194 OHV L6 3.5625" Bore (Chevrolet) (GMC Eng.) .....	1966-65	..... 2	4.6L 283 OHV V8 3.875" Bore (Chevrolet) (GMC Eng.) .....	1966-65	..... 6
3.7L 224 OHV V8 3.5625" Bore (16 Valve) .....	1955	..... 3	4.7L 289 OHV V8 3.5625" Bore (16 Valve) .....	1964-55	..... 7
3.8L 232 OHV V8 3.375" Bore (16 Valve) .....	1954-51	..... 4			

**1 2.8L 169.6 OHV L6 (12 Valve), 3" Bore 1964-61**  
 VIN Code "S" 1961-64

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	64-61	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
12	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	Valve Stem Seal	64-61	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	64-61	MV-1598C	Umbrella type; Rubber
12	Valve Stem Seal Bulk	64-61	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	64-61	MV-1598	Umbrella type; Carton of 100; Rubber
24	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
	Keeper	64-61	VK-115	1 groove; Square cut key groove
24	Keeper	64-61	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	64-61	VK-115B	1 groove; Square cut key groove; Carton of 1000

**2 3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore (GMC Eng.) 1966-65**

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Crank Gear	66-65	221-2537	27 Teeth
1	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	66-65	HT-817 Std Only	Hyd.
12	Lifter, Bulk	66-65	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	66-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
1	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	66-65	KC-633	Hyd.; Incl. (1) CS-633, (12) HT-817, (1) 55-403B
12	PUSH ROD	YEARS	PART NO.	DESCRIPTION
12	Push Rod	66-65	RP-3214R	Chrome-Moly; 9.6800" O.A.L.
12	Push Rod	66-65	RP-3180	9.6800" O.A.L.
12	Push Rod, Bulk	66-65	BRP-3180	Carton of 100; 9.6800" O.A.L.
12	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
12	Arm Assy.	66-65	R-832	Incl. arm, ball & nut
12	Arm Assy., Bulk	66-65	R-832B	Incl. arm, ball & nut; Carton of 64
12	Arm	66-65	R-832A	
12	Pivot Ball	66-65	MR-1780	
12	Nut	66-65	MR-1751	Self-locking, 3/8" x 24 threads
12	Stud	66-65	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
12	Stud	66-65	MR-1949	3/8" x 24 x 2.495"
6	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	66-65	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
6	Exhaust	66-65	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Exhaust, Bulk	66-65	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
6	Intake	66-65	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
6	Intake, Bulk	66-65	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.

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# Studebaker Car

## 3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore (GMC Eng.) 1966-65 **2**

(cont.)

3.2L 194 OHV L6 (Chevrolet), 3.5625" Bore (GMC Eng.) 1966-65 <b>2</b>				
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	66-65	VS-653	w/o Rotocaps; 1.9000" Free Height
12	Spring	66-65	VS-521	W/Rotocaps; Incl. damper; 2.1090" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	66-65	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	66-65	MV-1233C	O-Ring; Rubber
12	Valve Stem Seal Bulk	66-65	MV-1233	O-Ring; Carton of 100; Rubber
12	Valve Stem Seal Bulk	66-65	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	66-65	VK-115	1 groove; Square cut key groove
24	Keeper	66-65	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	66-65	VK-115B	1 groove; Square cut key groove; Carton of 1000
6	Rotocap	66-65	RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	66-65	311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
6	Cast Piston - Individual	66-65	W311P Std Only	Cast; 2-5/64", 1-3/16" Ring Groove, 1.779" CD, .9275" Pin Dia., Flat Head - 8.3:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	66-65	E-250X Std-30-40	2-5/64, 1-3/16
6	Standard Single Cylinder Set	66-65	WE-250X Std Only	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	66-65	4124MA Std-1-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set	66-65	6-2020CP Std-10-20-30-40	6-2020CA 60 avail. as unplated & resizeable
1	Rod Set	66-65	6-2020CA60 60	Unplated & resizeable
6	Rod Pair	66-65	2020CP Std-1-2-10-20-30-40-50	
1	Cam Set	66-65	1203M Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	66-65	224-4147	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	66-65	260-1005	
3.7L 224 OHV V8 (16 Valve), 3.5625" Bore 1955 <b>3</b>				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	55	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	55	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	55	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	55	ST-2092	Positive type; Rubber
16	Valve Stem Seal	55	MV-1598C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	55	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	55	MV-1598	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	55	VK-115	1 groove; Square cut key groove
32	Keeper	55	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	55	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	55	1785CP Std-20	
3.8L 232 OHV V8 (16 Valve), 3.375" Bore 1954-51 <b>4</b>				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	54-52	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	54-52	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	54-52	MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk	54-52	MV-1233	O-Ring; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	54-52	VK-115	1 groove; Square cut key groove
32	Keeper	54-52	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	54-52	VK-115B	1 groove; Square cut key groove; Carton of 1000

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# Studebaker Car

4 3.8L 232 OHV V8 (16 Valve), 3.375" Bore 1954-51 (cont.)				
QTY	SLEEVE	YEARS	PART NO.	DESCRIPTION
1	Repair Sleeve	54-52	SL-13M Std Only	3/32" wall, must be cut to correct length
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	54-51	1785CP Std-20	
5 4.2L 259 OHV V8 (16 Valve), 3.5625" Bore 1964-55 VIN Code "V" 1960-64				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	64-55	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	64-55	VG-456	Int.; .532" OD; .3120" ID, 2.0940" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	64-55	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	64-55	ST-2092	Positive type; Rubber
16	Valve Stem Seal	64-55	MV-1598C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	64-55	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	64-55	MV-1598	Umbrella type; Carton of 100; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	64-55	245-1625-15 Std Only	1.6300" OD, 1.3750" ID, .2656" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	64-55	VK-115	1 groove; Square cut key groove
32	Keeper	64-55	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	64-55	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	64-55	1785CP Std-20	
6 4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 1966-65				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	3 Piece Set	66-65	KT3-489S	Incl. (1) 222-489, (1) 223-261, (1) 223-262
1	Timing Chain	66-65	222-489	46 Links
1	Crank Sprocket	66-65	223-262	18 Teeth
1	Cam Sprocket	66-65	223-261	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	66-65	CS-274	Hyd.
16	Lifter	66-65	HT-817 Std Only	Hyd.
16	Lifter, Bulk	66-65	HT-817B Std Only	Hyd.; Carton of 128
1	Prelube	66-65	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	66-65	KC-274	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) 55-403B
1	Cam/Lifter/Timing Kit	66-65	KCT-274A	Hyd.; Incl. (1) CS-274, (16) HT-817, (1) KT3-489S, (1) 55-403B
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
16	Push Rod	66-65	RP-3212R	Chrome-Moly; 7.7900" O.A.L.
16	Push Rod	66-65	RP-3212R100	Chrome-Moly; 7.8900" O.A.L.
16	Push Rod	66-65	RP-3212R150	Chrome-Moly; 7.9400" O.A.L.
16	Push Rod	66-65	RP-3212R200	Chrome-Moly; 7.9900" O.A.L.
16	Push Rod	66-65	RP-3093	7.7940" O.A.L.
16	Push Rod, Bulk	66-65	BRP-3093	Carton of 100; 7.7940" O.A.L.
16	Push Rod, Bulk	66-65	BRP-3212R	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
16	Push Rod, Bulk	66-65	BRP-3212R100	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
16	Arm Assy.	66-65	R-826	Incl. arm, ball & nut
16	Arm Assy., Bulk	66-65	R-826B	Incl. arm, ball & nut; Carton of 64
16	Arm	66-65	R-826A	
16	Pivot Ball	66-65	MR-1783	
16	Nut	66-65	MR-1751	Self-locking, 3/8" x 24 threads
16	Stud	66-65	MR-1752	.003" O/S, 3/8" x 24 x 2.495"
16	Stud	66-65	MR-1949	3/8" x 24 x 2.495"
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	66-65	V-1888X Std-15	Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Exhaust	66-65	V-1199 Std-3-5-15-30	1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Exhaust, Bulk	66-65	V-1199B Std-15	Carton of 25; 1.5000" Head Dia., .3415" Stem Dia., 4.9280" O.A.L.
8	Intake	66-65	V-1200 Std-3-15-30	1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk	66-65	V-1200B Std Only	Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.

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# Studebaker Car

4.6L 283 OHV V8 (Chevrolet), 3.875" Bore (GMC Eng.) 1966-65 **6**

(cont.)

VALVE TRAIN		QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN		8	Guide	66-65	VG-5006	Exh.; .3440" ID, 2.3750" O.A.L.	
		16	Guide	66-65	VG-5005T	Exh. & Int.; Threaded; .3425" ID, 2.2500" O.A.L.	
		8	Guide	66-65	VG-5005	Int.; .3430" ID, 2.2500" O.A.L.	
VALVE TRAIN		QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
		16	Spring	66-65	VS-521	Incl. damper; 2.1090" Free Height	
VALVE TRAIN		QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
		16	Valve Stem Seal	66-65	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE	
		16	Valve Stem Seal	66-65	MV-1233C	O-Ring; Rubber	
		16	Valve Stem Seal Bulk	66-65	MV-1233	O-Ring; Carton of 100; Rubber	
		16	Valve Stem Seal Bulk	66-65	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE	
VALVE TRAIN		QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
		32	Keeper	66-65	VK-115	1 groove; Square cut key groove	
		32	Keeper	66-65	VK-115R	1 groove; Square cut key groove; Hardened	
		32	Keeper, Bulk	66-65	VK-115B	1 groove; Square cut key groove; Carton of 1000	
BLOCK		QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
		8	Cast Piston	66-65	235P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use 235NP	
		8	Cast Piston	66-65	235NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
		8	Cast Piston - Individual	66-65	W235P + Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; When depleted use W235NP	
		8	Cast Piston - Individual	66-65	W235NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.780" CD, .9278" Pin Dia., Flat Head w/4 valve reliefs	
		8	Powerforged	66-65	L-2163F30 30-40-60	Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.795" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>	
BLOCK		QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
		1	Premium Set	66-65	E-245K Std-20-30-40-60	2-5/64, 1-3/16	
		1	Standard Set	66-65	E-245X Std-20-30-40-60-80	2-5/64, 1-3/16	
		8	Premium Single Cylinder Set	66-65	WE-245K Std-30-40-60	2-5/64, 1-3/16	
BLOCK		QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
		1	Main Set	66-65	994M Std-1-10-20-30-40		
		1	Rod Set	66-65	8-2020CP Std-1-10-20-30-40		
		8	Rod Pair	66-65	2020CP Std-1-2-10-20-30-40-50		
BLOCK		1	Cam Set	66-65	1235M Std-1-10	Babbitt material; Full round design	
		QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
		1	Oil Pump	66-65	224-4143	High Volume, check pan for clearance; 5/8" inlet; Use shaft w/steel guide	
		1	Oil Pump	66-65	224-4146	5/8" inlet	
BLOCK		1	Pump Repair Kit	66-65	224-519		
		1	Inter. Shaft	66-65	224-6146E	Has steel shaft guide; Eliminates nylon shaft guide	
		QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
BLOCK		1	Kit Gasket Set	66-65	260-1000		
		2	Head Bolt Set	66-65	260-2500		
BLOCK		QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
		1	Brass Block Plug Kit	66-65	381-8007		
BLOCK		1	Steel Block Plug Kit	66-65	381-4011		
		KITS		RE-RING KIT		YEARS	DESCRIPTION
KITS		66-65		Re-ring		205-619	205-119
		66-65		Re-ring w/Mains		205-619M	205-119M
KITS		OVERHAUL KIT		YEARS	DESCRIPTION	PREMIUM KIT NO.	ECONOMY KIT NO.
		66-65		Incl. 5/8" inlet oil pump		Master	MKP-619D
KITS				Master w/o Pistons		MK-619D	MK-119D
				Master w/o Rods & Mains		505-619D	505-119D

# Studebaker Car

7 4.7L 289 OHV V8 (16 Valve), 3.5625" Bore 1964-55 VIN Code "P" 1960-64					
<b>VALVE TRAIN</b>	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Guide	64-56	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
	8	Guide	64-56	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	16	Valve Stem Seal	64-56	ST-2003	Positive type; Installation requires valve guide machining; Rubber
	16	Valve Stem Seal	64-56	ST-2092	Positive type; Rubber
	16	Valve Stem Seal	64-56	MV-1598C	Umbrella type; Rubber
	16	Valve Stem Seal Bulk	64-56	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
	16	Valve Stem Seal Bulk	64-56	MV-1598	Umbrella type; Carton of 100; Rubber
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	8	Exh.	64-56	245-1625-15 Std Only	1.6300" OD, 1.3750" ID, .2656" Depth
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	32	Keeper	64-56	VK-115	1 groove; Square cut key groove
	32	Keeper	64-56	VK-115R	1 groove; Square cut key groove; Hardened
	32	Keeper, Bulk	64-56	VK-115B	1 groove; Square cut key groove; Carton of 1000
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Rod Pair	64-55	1785CP Std-20		

# Studebaker Truck

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
2.8L 169.6 OHV L6 3" Bore (12 Valve) L/D Truck.....	1964-61	..... 1	4.7L 289 OHV V8 3.5625" Bore (16 Valve) L/D Truck.....	1964-57	..... 4
3.7L 224 OHV V8 3.5625" Bore (16 Valve) L/D Truck.....	1956-55	..... 2			
4.2L 259 OHV V8 3.5625" Bore (16 Valve) L/D Truck.....	1964-57	..... 3			

1 2.8L 169.6 OHV L6 (12 Valve), 3" Bore 1964-61 L/D Truck VIN Code "S" 1961-64				
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
6	Guide	64-61	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	64-61	ST-2001	Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	64-61	MV-1598C	Umbrella type; Rubber
12	Valve Stem Seal Bulk	64-61	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
12	Valve Stem Seal Bulk	64-61	MV-1598	Umbrella type; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
24	Keeper	64-61	VK-115	1 groove; Square cut key groove
24	Keeper	64-61	VK-115R	1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	64-61	VK-115B	1 groove; Square cut key groove; Carton of 1000
2 3.7L 224 OHV V8 (16 Valve), 3.5625" Bore 1956-55 L/D Truck				
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	56-55	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	56-55	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Valve Stem Seal	56-55	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	56-55	ST-2092	Positive type; Rubber
16	Valve Stem Seal	56-55	MV-1598C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	56-55	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	56-55	MV-1598	Umbrella type; Carton of 100; Rubber
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
32	Keeper	56-55	VK-115	1 groove; Square cut key groove
32	Keeper	56-55	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	56-55	VK-115B	1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Rod Pair	56-55	1785CP Std-20	



# Studebaker Truck

4.2L 259 OHV V8 (16 Valve), 3.5625" Bore 1964-57 **3**  
L/D Truck

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	64-57	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	64-57	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	64-57	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	64-57	ST-2092	Positive type; Rubber
16	Valve Stem Seal	64-57	MV-1598C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	64-57	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	64-57	MV-1598	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	64-57	VK-115	1 groove; Square cut key groove
32	Keeper	64-57	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	64-57	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	64-57	1785CP	Std-20

4.7L 289 OHV V8 (16 Valve), 3.5625" Bore 1964-57 **4**  
L/D Truck

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	64-57	VG-449	Exh.; .3445" ID, 2.6250" O.A.L.
8	Guide	64-57	VG-450	Int.; .3435" ID, 3.0000" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	64-57	ST-2003	Positive type; Installation requires valve guide machining; Rubber
16	Valve Stem Seal	64-57	ST-2092	Positive type; Rubber
16	Valve Stem Seal	64-57	MV-1598C	Umbrella type; Rubber
16	Valve Stem Seal Bulk	64-57	ST-2003BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber
16	Valve Stem Seal Bulk	64-57	MV-1598	Umbrella type; Carton of 100; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	64-57	VK-115	1 groove; Square cut key groove
32	Keeper	64-57	VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk	64-57	VK-115B	1 groove; Square cut key groove; Carton of 1000
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
8	Rod Pair	64-59	1785CP	Std-20

# Subaru Car

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.1L 1088cc OHV H4 76mm Bore (8 Valve).....	1971-70	1	1.8L 1781cc SOHC Turbo H4 92mm Bore (8 Valve).....	1990-85	8
1.2L 1189cc SOHC L3 78mm Bore (9 Valve).....	1990-87	2	1.8L 1781cc OHV Turbo H4 92mm Bore (8 Valve) ..	1984-83	9
1.3L 1267cc OHV H4 82mm Bore (8 Valve).....	1972-70	3	2.2L 2212cc SOHC H4 96.9mm Bore (16 Valve).....	1990	10
1.4L 1361cc OHV H4 85mm Bore (8 Valve).....	1976-73	4	2.2L 2212cc SOHC Turbo H4 96.9mm Bore (16 Valve).....	1990	11
1.6L 1595cc OHV H4 92mm Bore (8 Valve).....	1988-76	5	2.7L 2672cc SOHC H6 92mm Bore (12 Valve).....	1990-88	12
1.8L 1781cc OHV H4 92mm Bore (8 Valve).....	1988-80	6			
1.8L 1781cc SOHC H4 92mm Bore (8 Valve).....	1990-85	7			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
EA62.....	1.3L 1267cc OHV H4 82mm Bore (8 Valve).....	3	EF12.....	1.2L 1189cc SOHC L3 78mm Bore (9 Valve).....	2
EA63.....	1.4L 1361cc OHV H4 85mm Bore (8 Valve).....	4	EJ22E.....	2.2L 2212cc SOHC H4 96.9mm Bore (16 Valve).....	10
EA71.....	1.6L 1595cc OHV H4 92mm Bore (8 Valve).....	5	EJ22EZ.....	2.2L 2212cc SOHC H4 96.9mm Bore (16 Valve).....	10
EA81.....	1.8L 1781cc OHV H4 92mm Bore (8 Valve).....	6	EJ22T.....	2.2L 2212cc SOHC Turbo H4 96.9mm Bore (16 Valve).....	11
EA81T.....	1.8L 1781cc OHV Turbo H4 92mm Bore (8 Valve).....	9	EJ22Z.....	2.2L 2212cc SOHC H4 96.9mm Bore (16 Valve).....	10
EA82.....	1.8L 1781cc SOHC H4 92mm Bore (8 Valve).....	7	ER27.....	2.7L 2672cc SOHC H6 92mm Bore (12 Valve).....	12
EA82T.....	1.8L 1781cc SOHC Turbo H4 92mm Bore (8 Valve).....	8			

# Subaru Car

<b>1 1.1L 1088cc OHV H4 (8 Valve), 76mm Bore 1971-70</b> Eng. Code "EA61" 1970-71					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	71-70	<b>E-356KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16	
1	Standard Set	71-70	<b>E-356X</b> Std-20-30-40-60	2-5/64, 1-3/16	
4	Standard Single Cylinder Set	71-70	<b>WE-356X</b> Std-20-30-40-60	2-5/64, 1-3/16	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	71-70	<b>4-67365RA</b> Std-.25-.50MM		
<b>2 1.2L 1189cc SOHC L3 (9 Valve), 78mm Bore 1990-87</b> Eng. Code "EF12" 1987-94					
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
3	Exhaust	90-87	<b>V-4197</b> Std Only	Chrome plated stem; 1.2990" Head Dia., .2738" Stem Dia., 4.2720" O.A.L.	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90-87	<b>7350M</b> Std Only		
3	Rod Pair	90-87	<b>4575P</b> Std-.25MM		
<b>3 1.3L 1267cc OHV H4 (8 Valve), 82mm Bore 1972-70</b> Eng. Code "EA62" 1970-72					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	72	<b>E-359KC</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM
	1	Standard Set	72	<b>E-359X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	72	<b>WE-359KC</b> Std-.75-1.00MM	2-2.00MM, 1-4.00MM
	4	Standard Single Cylinder Set	72	<b>WE-359X.75MM</b> .75-1.00MM	2-2.00MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	72-70	<b>4-67365RA</b> Std-.25-.50MM		
<b>B L O C K</b>	<b>4 1.4L 1361cc OHV H4 (8 Valve), 85mm Bore 1976-73</b> Eng. Code "EA63" 1973-76				
	<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Int.	76-73	<b>245-1625-54</b> Std Only	1.6320" OD, 1.3290" ID, .2800" Depth
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	76-73	<b>E-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM
1	Standard Set	76-73	<b>E-360X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	76-73	<b>WE-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	76-73	<b>WE-360X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	76-73	<b>4-67365RA</b> Std-.25-.50MM		
<b>5 1.6L 1595cc OHV H4 (8 Valve), 92mm Bore 1988-76</b> Eng. Code "EA71" 1976-88					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	88-82	<b>E-435KC</b> Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
1	Premium Set	81-76	<b>E-392KC</b> Std Only	2-2.00MM, 1-4.00MM	
1	Standard Set	81-76	<b>E-392X</b> Std Only	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	88-82	<b>WE-435KC</b> Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	87-76	<b>4-67365RA</b> Std-.25-.50MM		
<b>6 1.8L 1781cc OHV H4 (8 Valve), 92mm Bore 1988-80</b> Eng. Code "EA81" 1980-89					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	88-82	<b>E-435KC</b> Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM
	1	Premium Set	81-80	<b>E-392KC</b> Std Only	2-2.00MM, 1-4.00MM
	1	Standard Set	81-80	<b>E-392X</b> Std Only	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	88-82	<b>WE-435KC</b> Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	88-80	<b>6796M</b> Std-.25MM		
1	Rod Set	88-80	<b>4-67365RA</b> Std-.25-.50MM		
<b>7 1.8L 1781cc SOHC H4 (8 Valve), 92mm Bore 1990-85</b> Eng. Code "EA82" 1985-94					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Belt	90-85	<b>222-115</b>	L.H.	
1	Timing Belt	90-85	<b>222-116</b>	R.H.	

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1.8L 1781cc SOHC H4 (8 Valve), 92mm Bore 1990-85 <b>7</b>					
Eng. Code "EA82" 1985-94 (cont.)					
QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt Tensioner	90-85	222-336BT	L.H.	
1	Timing Belt Tensioner	90-85	222-337BT	R.H.	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
8	Lifter	90-85	HT-6035 Std Only	Hyd.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-85	E-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	90-85	WE-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-85	6796M Std-.25MM		
1	Rod Set	90-85	4-67365RA Std-.25-.50MM		
1.8L 1781cc SOHC Turbo H4 (8 Valve), 92mm Bore 1990-85 <b>8</b>					
Eng. Code "EA82T" 1985-90					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90-85	222-115	L.H.	
1	Timing Belt	90-85	222-116	R.H.	
1	Timing Belt Tensioner	90-85	222-336BT	L.H.	
1	Timing Belt Tensioner	90-85	222-337BT	R.H.	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
8	Lifter	90-85	HT-6035 Std Only	Hyd.	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	90-85	E-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	90-85	WE-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	90-85	6796M Std-.25MM		
1	Rod Set	90-85	4-67365RA Std-.25-.50MM		
1.8L 1781cc OHV Turbo H4 (8 Valve), 92mm Bore 1984-83 <b>9</b>					
Eng. Code "EA81T" 1983-84					
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	84-83	6796M Std-.25MM		
1	Rod Set	84-83	4-67365RA Std-.25-.50MM		
2.2L 2212cc SOHC H4 (16 Valve), 96.9mm Bore 1990 <b>10</b>					
Eng. Codes "EJ22E" 1990-2001, "EJ22EZ" 1997-2001, "EJ222" 1999-2001					
V A L V E  T R A I N	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90	222-B254	w/Fed. & Calif. Emis.
	1	Timing Belt	90	222-B172	Exc. Fed. & Calif. Emis.
	1	Timing Belt & Tensioner Set	90	BTS-172 *	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	8	Lifter	90	HT-2254 Std Only	Hyd. lash adj.
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	8	Exhaust	90	V-4368 Std Only	Chrome plated stem; 1.1020" Head Dia., .2344" Stem Dia., 3.9830" O.A.L.
	8	Intake	90	V-4367 Std Only	1.2800" Head Dia., .2344" Stem Dia., 3.9760" O.A.L.
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90	VG-1425T	Exh. & Int.; .2367" ID, 2.0650" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
16	Valve Stem Seal	90	ST-2148	Exh. & Int.; Positive type; Viton®	
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION	
8	Exh.	90	245-1250-63 Std Only	1.2500" OD, .9300" ID, .3250" Depth	
8	Int.	90	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90	E-882KC Std-1.00MM	1-1.20MM, 1-1.50MM, 1-3.00MM
	4	Premium Single Cylinder Set	90	WE-882KC.50MM .50MM	1-1.20MM, 1-1.50MM, 1-3.00MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90	7362M Std-.25-.50MM	.25MM & .50MM sets contain .15MM O/S length flange brg.
4	Rod Pair	90	4775A Std-.25-.50MM		
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION	
1	Kit Gasket Set	90	260-1846	Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	

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<b>11 2.2L 2212cc SOHC Turbo H4 (16 Valve), 96.9mm Bore 1990</b> Eng. Code "EJ22T" 1990-95					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Belt	90	222-B172		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exhaust	90	V-4368 Std Only	Chrome plated stem; 1.1020" Head Dia., .2344" Stem Dia., 3.9830" O.A.L.	
8	Intake	90	V-4367 Std Only	1.2800" Head Dia., .2344" Stem Dia., 3.9760" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Guide	90	VG-1425T	Exh. & Int.; .2367" ID, 2.0650" O.A.L.	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Exh.	90	245-1250-63 Std Only	1.2500" OD, .9300" ID, .3250" Depth	
8	Int.	90	245-1375-55 Std Only	1.3820" OD, 1.1200" ID, .3250" Depth	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	90	7362M Std-.25-.50MM	.25MM & .50MM sets contain .15MM O/S length flange brg.	
4	Rod Pair	90	4775A Std-.25-.50MM		
<b>12 2.7L 2672cc SOHC H6 (12 Valve), 92mm Bore 1990-88</b> Eng. Code "ER27" 1988-91					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Timing Belt	90-88	222-B151	L.H.	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
12	Lifter	89-88	HT-6035 Std Only	Hyd.	

# Subaru Truck

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.6L 1595cc OHV H4 92mm Bore (8 Valve) L/D Truck.....	1980-78	..... 1	1.8L 1781cc OHV H4 92mm Bore (8 Valve) L/D Truck.....	1987-81	..... 2
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
EA71.....	1.6L 1595cc OHV H4 92mm Bore (8 Valve) L/D Truck.....	1	EA81.....	1.8L 1781cc OHV H4 92mm Bore (8 Valve) L/D Truck.....	2

<b>1 1.6L 1595cc OHV H4 (8 Valve), 92mm Bore 1980-78</b> L/D Truck Eng. Code "EA71" 1978-80					
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	80-78	E-392KC Std Only	2-2.00MM, 1-4.00MM	
1	Standard Set	80-78	E-392X Std Only	2-2.00MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	80-78	4-67365RA Std-.25-.50MM		
<b>2 1.8L 1781cc OHV H4 (8 Valve), 92mm Bore 1987-81</b> L/D Truck Eng. Code "EA81" 1980-87					
<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Premium Set	87-82	E-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM
	1	Premium Set	81	E-392KC Std Only	2-2.00MM, 1-4.00MM
	1	Standard Set	81	E-392X Std Only	2-2.00MM, 1-4.00MM
	4	Premium Single Cylinder Set	87-82	WE-435KC Std Only	1-1.20MM, 1-1.50MM, 1-4.00MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	87-81	6796M Std-.25MM		
1	Rod Set	87-81	4-67365RA Std-.25-.50MM		
<b>B L O C K</b>					

# Suzuki Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.0L 993cc SOHC L3 74mm Bore (6 Valve).....	1988-85	..... 1	1.3L 1298cc DOHC L4 74mm Bore (16 Valve) .....	1990-89	..... 3
1.0L 993cc SOHC Turbo L3 74mm Bore (6 Valve) ..	1988-85	..... 2	1.3L 1324cc SOHC L4 74mm Bore (8 Valve).....	1990-89	..... 4

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
G10.....	1.0L 993cc SOHC L3 74mm Bore (6 Valve).....	1	G13A .....	1.3L 1324cc SOHC L4 74mm Bore (8 Valve).....	4
G10-T .....	1.0L 993cc SOHC Turbo L3 74mm Bore (6 Valve).....	2	G13B .....	1.3L 1298cc DOHC L4 74mm Bore (16 Valve).....	3

### 1.0L 993cc SOHC L3 (6 Valve), 74mm Bore 1988-85 **1** Eng. Code "G10" 1985-88 & 1992-94

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	88-85	<b>V-2334X</b> Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
6	VALVE GUIDE Guide	88-85	<b>VG-817</b>	.2757" ID, 1.8950" O.A.L.
3	PISTON Cast Piston	88-85	<b>12221P1.00MM</b> 1.00MM	O.E. No. 12100-82820; Cast; 1-1.20mm, 1-1.50mm, 1-2.80mm Ring Groove, 28.5mm CD, 17.0mm Pin Dia., Flat Head w/2 valve reliefs
1	RINGS Premium Set	88-85	<b>E-549KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
3	Premium Single Cylinder Set	88-85	<b>WE-549KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
1	ENGINE BEARINGS Main Set	88-85	<b>6685M</b> Std-.25-.50MM	
1	Thrust Washer Set	88-85	<b>1063AF</b> Std Only	Position 3
1	Rod Set	88-85	<b>3-1140RA</b> Std-.25-.50-.75MM	
1	GASKETS Kit Gasket Set	88-85	<b>260-1637</b>	Premium valve stem seals incl.
1	Head Bolt Set	88-85	<b>260-2523</b>	Replacement recommended
<b>RE-RING KIT</b>				
YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
88-85	Premium valve stem seals incl.	Re-ring	<b>205-6347</b>	----
		Re-ring w/Mains	<b>205-6347M</b>	----

### 1.0L 993cc SOHC Turbo L3 (6 Valve), 74mm Bore 1988-85 **2** Eng. Code "G10-T" 1985-88

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
3	Exhaust	88-85	<b>V-2334X</b> Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
6	VALVE GUIDE Guide	88-87	<b>VG-817</b>	.2757" ID, 1.8950" O.A.L.
6	Guide	88-85	<b>VG-816</b>	.2170" ID, 1.2600" O.A.L.
1	ENGINE BEARINGS Main Set	88-85	<b>6685M</b> Std-.25-.50MM	
1	Thrust Washer Set	88-85	<b>1063AF</b> Std Only	Position 3
1	Rod Set	88-85	<b>3-1140RA</b> Std-.25-.50-.75MM	
1	GASKETS Head Bolt Set	88-85	<b>260-2523</b>	Replacement recommended

### 1.3L 1298cc DOHC L4 (16 Valve), 74mm Bore 1990-89 **3** Eng. Code "G13B" 1989-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-89	<b>222-B171</b>	
16	CAMSHAFT/LIFTER Lifter	90-89	<b>HT-2272</b> Std Only	Hyd. bucket type lifter
4	VALVE Exhaust	90-89	<b>V-2334X</b> Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
8	VALVE GUIDE Guide	90-89	<b>VG-817</b>	Exh. & Int.; .2757" ID, 1.8950" O.A.L.
8	VALVE SPRING Spring	90-89	<b>VS-970</b>	Exh. & Int.; 1.9580" Free Height
4	VALVE SEAT Int.	90-89	<b>245-1187-52</b> Std Only	1.1945" OD, .9340" ID, .2570" Depth
1	ENGINE BEARINGS Main Set	90-89	<b>7095M</b> Std-.25MM	

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<b>3 1.3L 1298cc DOHC L4 (16 Valve), 74mm Bore 1990-89</b> (cont.) Eng. Code "G13B" 1989-94				
<b>QTY</b>	<b>ENGINE BEARINGS</b> (cont.)	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Thrust Washer Set	90-89	<b>1063AF</b> Std Only	Position 3
1	Rod Set	90-89	<b>4-1140RA</b> Std-.25-.50-.75-1.00MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90-89	<b>224-43456</b>	Without sensor
<b>4 1.3L 1324cc SOHC L4 (8 Valve), 74mm Bore 1990-89</b> Eng. Code "G13A" 1989-97				
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-89	<b>222-95</b>	
1	Timing Belt Tensioner	90-89	<b>222-182BT</b>	
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	90-89	<b>V-2334X</b> Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Guide	90-89	<b>VG-817</b>	.2757" ID, 1.8950" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	90-89	<b>VS-970</b>	1.9580" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90-89	<b>ST-2119</b>	Exh. & Int.; O.E. design; Positive type; Viton®
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	90-89	<b>VK-248</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-89	<b>E-776KC</b> Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
1	Premium Set	90-89	<b>E-527KC</b> Std Only	1-1.20MM, 1-2.80MM
4	Premium Single Cylinder Set	90-89	<b>WE-527KC</b> Std Only	1-1.20MM, 1-2.80MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	90-89	<b>7095M</b> Std-.25MM	
1	Thrust Washer Set	90-89	<b>1063AF</b> Std Only	Position 3
1	Rod Set	90-89	<b>4-1140RA</b> Std-.25-.50-.75-1.00MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Oil Pump	90-89	<b>224-43456</b>	Without sensor

## Suzuki SUV's - See Suzuki Truck Suzuki Truck (Includes SUV's)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.0L 970cc SOHC L4 65.5mm Bore (8 Valve) L/D Truck	1984-82	1	1.6L 1590cc SOHC L4 75mm Bore (8 Valve) L/D Truck	1990-89	3
1.3L 1324cc SOHC L4 74mm Bore (8 Valve) L/D Truck	1990-86	2			
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
F10A	1.0L 970cc SOHC L4 65.5mm Bore (8 Valve) L/D Truck	1	G16KC	1.6L 1590cc SOHC L4 75mm Bore (8 Valve) L/D Truck	3
G13A	1.3L 1324cc SOHC L4 74mm Bore (8 Valve) L/D Truck	2			

<b>1 1.0L 970cc SOHC L4 (8 Valve), 65.5mm Bore 1984-82</b> L/D Truck Eng. Code "F10A" 1980-85				
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	84-82	<b>E-753KC</b> Std-.50MM	2-1.50MM, 1-2.80MM
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Main Set	84-82	<b>6660M</b> Std-.25MM	
1	Thrust Washer Set	84-82	<b>66756BF</b> Std Only	Position 3
1	Rod Set	84-82	<b>4-66755CP</b> Std-.25-.50MM	

## Suzuki Truck (Includes SUV's)

1.3L 1324cc SOHC L4 (8 Valve), 74mm Bore 1990-86 <b>2</b>					
L/D Truck Eng. Code "G13A" 1985-95					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90-86	222-95		
1	Timing Belt Tensioner	90-86	222-182BT		
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
4	Exhaust	90-86	V-2334X Std Only	Chrome plated stem; 1.1810" Head Dia., .2738" Stem Dia., 4.5100" O.A.L.	
8	VALVE GUIDE Guide	90-86	VG-817	.2757" ID, 1.8950" O.A.L.	
8	VALVE SPRING Spring	90-86	VS-970	1.9580" Free Height	
8	VALVE SEAL Valve Stem Seal	89-86	ST-2119	Exh. & Int.; O.E. design; Positive type; Viton®	
16	VALVE, MISC Keeper	90-86	VK-248		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90-86	E-776KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
	1	ENGINE BEARINGS Main Set	90-86	7095M Std-.25MM	
	1	Thrust Washer Set	90-86	1063AF Std Only	Position 3
1	Rod Set	90-86	4-1140RA Std-.25-.50-.75-1.00MM		
1	OIL PUMP Oil Pump	90-86	224-43456	Without sensor	
1.6L 1590cc SOHC L4 (8 Valve), 75mm Bore 1990-89 <b>3</b>					
L/D Truck Eng. Code "G16KC" 1989-95					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Timing Belt	90-89	222-B164	
	1	Timing Belt Tensioner	90-89	222-182BT	
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION
	4	Exhaust	90-89	V-2631 Std Only	Chrome plated stem; 1.2780" Head Dia., .2736" Stem Dia., 4.5060" O.A.L.
	4	Intake	90-89	V-2630 Std Only	Chrome plated stem; 1.4410" Head Dia., .2740" Stem Dia., 4.5500" O.A.L.
	8	VALVE GUIDE Guide	90-89	VG-817	.2757" ID, 1.8950" O.A.L.
8	VALVE SPRING Spring	90-89	VS-970	Exh. & Int.; 1.9580" Free Height	
4	VALVE SEAT Exh.	90-89	245-1375-56 Std Only	1.3820" OD, 1.1020" ID, .2600" Depth	
4	Int.	90-89	245-1500-79 Std Only	1.5000" OD, 1.2950" ID, .2620" Depth	
16	VALVE, MISC Keeper	90-89	VK-248		
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90-89	E-515KC Std-.50-.75-1.00MM	1-1.20MM, 1-1.50MM, 1-2.80MM
	4	Premium Single Cylinder Set	90-89	WE-515KC Std-.50MM	1-1.20MM, 1-1.50MM, 1-2.80MM
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	90-89	7208M Std-.25-.50MM	
1	Thrust Washer Set	90-89	4191AF Std Only	Position 3	
1	Rod Set	90-89	4-4190CP Std-.25-.50MM		
1	GASKETS Kit Gasket Set	90-89	260-1812	Premium valve stem seals incl.	
RE-RING KIT					
YEARS	DESCRIPTION				
90-89	Premium valve stem seals incl.				
		Re-ring		<b>PREMIUM KIT NO. 205-6812</b>	
		Re-ring w/Mains		<b>ECONOMY KIT NO. ----- 205-6812M</b>	

# Toyota Car

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.1L 1077cc OHV L4 75mm Bore (8 Valve) .....	1969-68	1	2.0L 1995cc SOHC L4 84mm Bore (8 Valve).....	1986-83	17
1.2L 1166cc OHV L4 75mm Bore (8 Valve).....	1979-69	2	2.0L 1998cc DOHC L4 86mm Bore (16 Valve).....	1990-86	18
1.3L 1290cc OHV L4 75mm Bore (8 Valve).....	1984-81	3	2.0L 1998cc DOHC Turbo L4 86mm Bore (16 Valve).....	1990-88	19
1.5L 1452cc SOHC L4 77.5mm Bore (8 Valve).....	1988-80	4	2.2L 2164cc DOHC L4 87mm Bore (16 Valve).....	1990	20
1.5L 1456cc SOHC L4 73mm Bore (12 Valve).....	1990-87	5	2.2L 2189cc SOHC L4 88.5mm Bore (8 Valve).....	1980-75	21
1.6L 1587cc SOHC L4 81mm Bore (8 Valve).....	1987-83	6	2.3L 2253cc SOHC L6 75mm Bore (12 Valve).....	1972-67	22
1.6L 1587cc SOHC L4 81mm Bore (8 Valve).....	1988-84	7	2.4L 2366cc SOHC L4 92mm Bore (8 Valve).....	1985-81	23
1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	1990-85	8	2.5L 2507cc DOHC V6 87.5mm Bore (24 Valve).....	1990-88	24
1.6L 1588cc OHV L4 85mm Bore (8 Valve).....	1979-71	9	2.6L 2563cc SOHC L6 80mm Bore (12 Valve).....	1980-71	25
1.8L 1770cc OHV L4 85mm Bore (8 Valve).....	1982-80	10	2.8L 2759cc SOHC L6 83mm Bore (12 Valve).....	1982-81	26
1.8L 1839cc SOHC Diesel L4 83mm Bore (8 Valve).....	1985-84	11	2.8L 2759cc DOHC L6 83mm Bore (12 Valve).....	1988-82	27
1.8L 1839cc SOHC Turbo-Diesel L4 83mm Bore (8 Valve).....	1985-84	12	3.0L 2954cc DOHC L6 83mm Bore (24 Valve).....	1990-86	28
1.9L 1858cc SOHC L4 86mm Bore (8 Valve).....	1972-69	13	3.0L 2954cc DOHC Turbo L6 83mm Bore (24 Valve).....	1990-87	29
1.9L 1897cc OHV L4 88mm Bore (8 Valve).....	1970-61	14	4.0L 3968cc DOHC V8 87.5mm Bore (32 Valve).....	1990	30
2.0L 1968cc SOHC L4 88.5mm Bore (8 Valve).....	1974-72	15			
2.0L 1974cc SOHC Turbo-Diesel L4 86mm Bore (8 Valve).....	1986	16			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
KC.....	1.1L 1077cc OHV L4 75mm Bore (8 Valve) .....	1	3SGTE.....	2.0L 1998cc DOHC Turbo L4 86mm Bore (16 Valve) .....	19
1AC.....	1.5L 1452cc SOHC L4 77.5mm Bore (8 Valve) .....	4	3TC.....	1.8L 1770cc OHV L4 85mm Bore (8 Valve) .....	10
1CLC.....	1.8L 1839cc SOHC Diesel L4 83mm Bore (8 Valve) .....	11	4AC.....	1.6L 1587cc SOHC L4 81mm Bore (8 Valve) .....	6
1CTLC.....	1.8L 1839cc SOHC Turbo-Diesel L4 83mm Bore (8 Valve).....	12	4AF.....	1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	8
1UZFE.....	4.0L 3968cc DOHC V8 87.5mm Bore (32 Valve) .....	30	4AFE.....	1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	8
18RC.....	2.0L 1968cc SOHC L4 88.5mm Bore (8 Valve).....	15	4AGE.....	1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	8
2CTLC.....	2.0L 1974cc SOHC Turbo-Diesel L4 86mm Bore (8 Valve).....	16	4AGEC.....	1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	8
2M.....	2.3L 2253cc SOHC L6 75mm Bore (12 Valve).....	22	4AGELC.....	1.6L 1587cc DOHC L4 81mm Bore (16 Valve).....	8
2SELC.....	2.0L 1995cc SOHC L4 84mm Bore (8 Valve).....	17	4ALC.....	1.6L 1587cc SOHC L4 81mm Bore (8 Valve).....	7
2T.....	1.6L 1588cc OHV L4 85mm Bore (8 Valve).....	9	4KC.....	1.3L 1290cc OHV L4 75mm Bore (8 Valve).....	3
2TC.....	1.6L 1588cc OHV L4 85mm Bore (8 Valve).....	9	4KE.....	1.3L 1290cc OHV L4 75mm Bore (8 Valve).....	3
2VZFE.....	2.5L 2507cc DOHC V6 87.5mm Bore (24 Valve).....	24	4M.....	2.6L 2563cc SOHC L6 80mm Bore (12 Valve).....	25
20R.....	2.2L 2189cc SOHC L4 88.5mm Bore (8 Valve).....	21	4ME.....	2.6L 2563cc SOHC L6 80mm Bore (12 Valve).....	25
22R.....	2.4L 2366cc SOHC L4 92mm Bore (8 Valve).....	23	5ME.....	2.8L 2759cc SOHC L6 83mm Bore (12 Valve).....	26
22REC.....	2.4L 2366cc SOHC L4 92mm Bore (8 Valve).....	23	5MGE.....	2.8L 2759cc DOHC L6 83mm Bore (12 Valve).....	27
3AC.....	1.5L 1452cc SOHC L4 77.5mm Bore (8 Valve).....	4	5SFE.....	2.2L 2164cc DOHC L4 87mm Bore (16 Valve).....	20
3E.....	1.5L 1456cc SOHC L4 73mm Bore (12 Valve).....	5	5SNFE.....	2.2L 2164cc DOHC L4 87mm Bore (16 Valve).....	20
3EE.....	1.5L 1456cc SOHC L4 73mm Bore (12 Valve).....	5	7MGE.....	3.0L 2954cc DOHC L6 83mm Bore (24 Valve).....	28
3KC.....	1.2L 1166cc OHV L4 75mm Bore (8 Valve).....	2	7MGTE.....	3.0L 2954cc DOHC Turbo L6 83mm Bore (24 Valve).....	29
3RC.....	1.9L 1897cc OHV L4 88mm Bore (8 Valve).....	14	8R.....	1.9L 1858cc SOHC L4 86mm Bore (8 Valve).....	13
3SFE.....	2.0L 1998cc DOHC L4 86mm Bore (16 Valve).....	18	8RC.....	1.9L 1858cc SOHC L4 86mm Bore (8 Valve).....	13
3SGELC.....	2.0L 1998cc DOHC L4 86mm Bore (16 Valve).....	18			

### 1 1.1L 1077cc OHV L4 (8 Valve), 75mm Bore 1969-68 Eng. Code "KC" 1968-69

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	69-68	VK-210	2 groove
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	69-68	WE-362KC Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove

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<b>1.1L 1077cc OHV L4 (8 Valve), 75mm Bore 1969-68 1</b>				
Eng. Code "KC" 1968-69 (cont.)				
QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
4	Standard Single Cylinder Set	69-68	<b>WE-362X</b> Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-68	<b>6768M</b> Std Only	
1	Thrust Washer Set	69-68	<b>67271BF</b> Std Only	Position 3
1	Rod Set	69-68	<b>4-67270CP</b> Std-.25MM	
<b>1.2L 1166cc OHV L4 (8 Valve), 75mm Bore 1979-69 2</b>				
Eng. Code "3KC" 1969-79				
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	79-69	<b>ST-2037</b>	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	79-69	<b>VK-210</b>	2 groove
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	79-69	<b>WE-362KC</b> Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove
4	Standard Single Cylinder Set	79-69	<b>WE-362X</b> Std Only	2-2.00MM, 1-4.00MM; w/Deep oil groove
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-69	<b>6768M</b> Std Only	
1	Thrust Washer Set	79-69	<b>67271BF</b> Std Only	Position 3
1	Rod Set	79-69	<b>4-67270CP</b> Std-.25MM	
<b>1.3L 1290cc OHV L4 (8 Valve), 75mm Bore 1984-81 3</b>				
Eng. Codes "4KC" 1981-82, "4KE" 1983-84				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	82-81	<b>KT-1018S</b>	Eng. Code "4KC"; From 9/81; Incl. sprockets, chain, tensioner, guides, gskts. & oil seal
1	Timing Chain Tensioner	84-83	<b>222-70CT</b>	To 12/83; Single row
1	Timing Chain Tensioner	82	<b>222-70CT</b>	Single row
1	Timing Chain Tensioner	81	<b>222-70CT</b>	From 8/81; Single row
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	84-82	<b>ST-2073</b>	Positive type; Rubber
8	Valve Stem Seal	81	<b>ST-2073</b>	From 3/81; Positive type; Rubber
8	Valve Stem Seal	81	<b>ST-2037</b>	To 2/81; Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	84-81	<b>VK-210</b>	2 groove
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	82-81	<b>WE-362KC</b> Std Only	Eng. Code "4KC"; 2-2.00MM, 1-4.00MM; w/Deep oil groove
4	Standard Single Cylinder Set	82-81	<b>WE-362X</b> Std Only	Eng. Code "4KC"; 2-2.00MM, 1-4.00MM; w/Deep oil groove
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	83-81	<b>6768M</b> Std Only	
1	Thrust Washer Set	84-81	<b>67271BF</b> Std Only	Position 3
1	Rod Set	83-81	<b>4-67270CP</b> Std-.25MM	
<b>1.5L 1452cc SOHC L4 (8 Valve), 77.5mm Bore 1988-80 4</b>				
Eng. Codes "1AC" 1980, "3AC" 1981-88				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-80	<b>222-70</b>	
1	Timing Belt Tensioner	88-80	<b>222-66BT</b>	
1	Timing Belt & Tensioner Set	88-87	<b>BTS-233</b>	
1	Timing Belt & Tensioner Set	86-80	<b>BTS-70</b>	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	88-80	<b>V-2255</b> Std Only	Nitrided stem; 1.2200" Head Dia., .2745" Stem Dia., 4.2120" O.A.L.
4	Intake	88-80	<b>V-2256</b> Std Only	Chrome plated stem; 1.4173" Head Dia., .2746" Stem Dia., 4.2120" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	88-80	<b>VG-731</b>	Exh.; .2764" ID, 1.9400" O.A.L.
4	Guide	88-80	<b>VG-732</b>	Int.; .2764" ID, 1.6900" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	88-80	<b>VS-813</b>	1.7620" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	88-80	<b>ST-2073</b>	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-80	<b>VK-240</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-80	<b>E-489KC</b> Std-.50-.75MM	2-1.50MM, 1-2.80MM

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## 4 1.5L 1452cc SOHC L4 (8 Valve), 77.5mm Bore 1988-80 (cont.) Eng. Codes "1AC" 1980, "3AC" 1981-88

BLOCK	QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION	BLOCK
	1	Standard Set	88-80	<b>E-489X</b> Std.-.50-.75-1.00MM	2-1.50MM, 1-2.80MM	
	4	Premium Single Cylinder Set	88-80	<b>WE-489KC</b> Std Only	2-1.50MM, 1-2.80MM	
	4	Standard Single Cylinder Set	88-80	<b>WE-489X</b> Std Only	2-1.50MM, 1-2.80MM	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	88-85	<b>6680MA</b> Std.-.25-.50-.75MM	<b>A-Series aluminum bearings</b>		
1	Main Set	84-83	<b>6680MA</b> Std.-.25-.50-.75MM	From 10/83; <b>A-Series aluminum bearings</b>		
1	Main Set	83	<b>6799M</b> Std.-.25MM	To 9/83		
1	Main Set	82-80	<b>6799M</b> Std.-.25MM			
1	Thrust Washer Set	88-80	<b>3926AF</b> Std Only	Position 3		
1	Rod Set	88-84	<b>4-1025PA</b> Std.-.25-.50-.75MM			
1	Rod Set	83	<b>4-1025PA</b> Std.-.25-.50-.75MM	From 10/83		
1	Rod Set	83	<b>4-3925P</b> Std.-.25-.50MM	To 9/83		
1	Rod Set	82-80	<b>4-3925P</b> Std.-.25-.50MM			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
1	Kit Gasket Set	88-83	<b>260-1286</b>	Eng. Code "3AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	88-80	<b>381-8070</b>			
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION				
	88-84	Eng. Code "3AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6058</b>	<b>205-1058</b>	
	83	Eng. Code "3AC"; To 9/83; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6057</b>	<b>205-1057</b>	
83	Eng. Code "3AC"; From 10/83; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6058</b>	<b>205-1058</b>		

## 5 1.5L 1456cc SOHC L4 (12 Valve), 73mm Bore 1990-87 Eng. Codes "3E" 1987-90, "3EE" 1990-94

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Timing Belt	90-87	<b>222-B233</b>		
	1	Timing Belt & Tensioner Set	90-87	<b>BTS-233</b>		
	1	Belt Idler	90-87	<b>222-206BT</b>	L.H.	
	1	Belt Idler	90-87	<b>222-207BT</b>	R.H.	
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
	1	Camshaft	90-87	<b>CS-1463</b>		
	1	Prelube	90-87	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
	8	Arm	90-87	<b>R-964</b>		
	QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
	4	Exhaust	90-87	<b>V-2500</b> Std Only	1 groove; Nitrided stem; 1.2250" Head Dia., .2350" Stem Dia., 3.6350" O.A.L.	
	4	Exhaust, Bulk	90-87	<b>V-2500B</b> Std Only	1 groove; Nitrided stem; Carton of 25; 1.2250" Head Dia., .2350" Stem Dia., 3.6350" O.A.L.	
	4	Intake	90-87	<b>V-2501</b> Std Only	Front Outer; Chrome plated stem; 1.1810" Head Dia., .2350" Stem Dia., 3.6350" O.A.L.	
	4	Intake	90-87	<b>V-2505</b> Std Only	Rear Inner; Chrome plated stem; .9450" Head Dia., .2350" Stem Dia., 3.6220" O.A.L.	
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	90-87	<b>VG-792</b>	.2369" ID, 1.5900" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	90-87	<b>VS-870</b>	1.6510" Free Height		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	90	<b>ST-2112</b>	Int.; From 9/90; Positive type		
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
4	Int. Rear Inner	90-87	<b>245-1187-51</b> Std Only	1.1945" OD, .9050" ID, .2570" Depth		
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
16	Keeper	90-87	<b>VK-242</b>			
QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
4	Cast Piston	90-88	<b>12895P</b> Std.-.50-.75-1.00MM	Eng. Codes "3E" & "3EE"; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.171" CD, .7089" Pin Dia., Recessed Head 3.18mm deep w/2 valve reliefs		
4	Cast Piston	87	<b>12895P</b> Std.-.50-.75-1.00MM	Eng. Codes "3E" & "3EE"; From 8/86; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.171" CD, .7089" Pin Dia., Recessed Head 3.18mm deep w/2 valve reliefs		

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## 1.5L 1456cc SOHC L4 (12 Valve), 73mm Bore 1990-87 **5**

Eng. Codes "3E" 1987-90, "3EE" 1990-94 (cont.)

	QTY	PART NO.	YEARS	DESCRIPTION		
BLOCK	4	<b>PISTON (cont.)</b> Cast Piston - Individual	90-88	<b>W12895P</b> Std-.50-.75-1.00MM	<b>DESCRIPTION</b> Eng. Codes "3E" & "3EE"; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.171" CD, .7089" Pin Dia., Recessed Head 3.18mm deep w/2 valve reliefs	
	4	Cast Piston - Individual	87	<b>W12895P</b> Std-.50-.75-1.00MM	Eng. Codes "3E" & "3EE"; From 8/86; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.171" CD, .7089" Pin Dia., Recessed Head 3.18mm deep w/2 valve reliefs	
	1	<b>RINGS</b> Premium Set	90-87	<b>E-511KC</b> Std-.25-.50-.75-1.00MM	<b>DESCRIPTION</b> 2-1.50MM, 1-3.00MM	
	1	Standard Set	90-87	<b>E-511X</b> Std-.50-.75MM	2-1.50MM, 1-3.00MM	
	4	Premium Single Cylinder Set	90-87	<b>WE-511KC</b> Std-.50-1.00MM	2-1.50MM, 1-3.00MM	
	1	<b>ENGINE BEARINGS</b> Main Set	90-87	<b>7116MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>	
	1	Thrust Washer Set	90-87	<b>1099AF</b> Std Only	Position 3	
	1	Rod Set	90-87	<b>4-1610CP</b> Std-.25-.50MM		
	1	<b>OIL PUMP</b> Oil Pump	90-87	<b>224-41936</b>	<b>DESCRIPTION</b>	
	1	Screen Assy.	90-87	<b>224-14287</b>	Eng. Codes "3E" & "3EE"	
1	<b>GASKETS</b> Kit Gasket Set	90-87	<b>260-1499</b>	<b>DESCRIPTION</b> PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	<b>FREEZE PLUGS</b> Brass Block Plug Kit	90-87	<b>381-8096</b>	<b>DESCRIPTION</b>		
KITS	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		----	205-1177M
	90-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6177M	----
	90-87	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6177	205-1177
	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	90-88	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6313	----
	90-88	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6313	----
	90-87	Eng. Codes "3E" & "3EE"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		MKP-6177C	----
	90-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-6177C	----
	87	From 8/86; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6313	----
	87	From 8/86; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; Incl. <b>A-Series aluminum bearings</b>	Block		BK-6313	----
	<b>1.6L 1587cc SOHC L4 (8 Valve), 81mm Bore 1987-83 <b>6</b></b>					
Eng. Code "4AC" 1983-87						
1	<b>TIMING</b> Timing Belt	87-83	<b>222-70</b>	<b>DESCRIPTION</b>		
1	Timing Belt Tensioner	87-83	<b>222-66BT</b>			
1	Timing Belt & Tensioner Set	87-83	<b>BTS-70</b>			
4	<b>VALVE</b> Exhaust	87-83	<b>V-2255</b> Std Only	<b>DESCRIPTION</b> Nitrided stem; 1.2200" Head Dia., .2745" Stem Dia., 4.2120" O.A.L.		
4	Intake	87-83	<b>V-2256</b> Std Only	Chrome plated stem; 1.4173" Head Dia., .2746" Stem Dia., 4.2120" O.A.L.		

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## 6 1.6L 1587cc SOHC L4 (8 Valve), 81mm Bore 1987-83 (cont.) Eng. Code "4AC" 1983-87

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	87-83	VG-731	Exh.; .2764" ID, 1.9400" O.A.L.
4	Guide	87-83	VG-732	Int.; .2764" ID, 1.6900" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	87-83	VS-813	1.7620" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	87-83	ST-2070	Positive type; Rubber
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-83	E-456KC Std.-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
1	Standard Set	87-83	E-456X Std.-.75-1.00MM	2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	87-83	WE-456KC Std.-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-84	6680MA Std.-.25-.50-.75MM	A-Series aluminum bearings
1	Main Set	83	6680MA Std.-.25-.50-.75MM	From 2/83; A-Series aluminum bearings
1	Thrust Washer Set	87-83	3926AF Std Only	Position 3
1	Rod Set	87-84	4-1025PA Std.-.25-.50-.75MM	
1	Rod Set	83	4-1025PA Std.-.25-.50-.75MM	From 8/83
1	Rod Set	83	4-3925P Std.-.25-.50MM	To 7/83
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	87-86	260-1500	Eng. Code "4AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	85-83	260-1501	Eng. Code "4AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	87-83	381-8070	
RE-RING KIT				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
87-86	Eng. Code "4AC"; Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	205-6180M	----
87-86	Eng. Code "4AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6180	----
85-84	Eng. Code "4AC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6179	----
83	Eng. Code "4AC"; To 7/83; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6178	----
83	Eng. Code "4AC"; From 8/83; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6179	----

## 7 1.6L 1587cc SOHC L4 (8 Valve), 81mm Bore 1988-84 Eng. Code "4ALC" 1984-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-84	222-70	
1	Timing Belt Tensioner	88-84	222-66BT	
1	Timing Belt & Tensioner Set	88-84	BTS-70	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	88-84	V-2255 Std Only	Nitrided stem; 1.2200" Head Dia., .2745" Stem Dia., 4.2120" O.A.L.
4	Intake	88-84	V-2256 Std Only	Chrome plated stem; 1.4173" Head Dia., .2746" Stem Dia., 4.2120" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	86	VG-731	Exh.; To 1/86; .2764" ID, 1.9400" O.A.L.
4	Guide	86	VG-732	Int.; To 1/86; .2764" ID, 1.6900" O.A.L.
4	Guide	85-84	VG-731	Exh.; .2764" ID, 1.9400" O.A.L.
4	Guide	85-84	VG-732	Int.; .2764" ID, 1.6900" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	88-84	VS-813	1.7620" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	88-84	ST-2073	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	88-84	VK-240	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-85	E-456KC Std.-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
1	Premium Set	84	E-456KC Std.-.50-.75-1.00MM	From 8/83; 2-1.50MM, 1-2.80MM

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**1.6L 1587cc SOHC L4 (8 Valve), 81mm Bore 1988-84 7**

Eng. Code "4ALC" 1984-88 (cont.)

QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Standard Set	88-85	<b>E-456X</b> Std-.75-1.00MM	2-1.50MM, 1-2.80MM
1	Standard Set	84	<b>E-456X</b> Std-.75-1.00MM	From 8/83; 2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	88-85	<b>WE-456KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	84	<b>WE-456KC</b> Std-.50-.75-1.00MM	From 8/83; 2-1.50MM, 1-2.80MM
<b>BLOCK</b>				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-85	<b>6680MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Main Set	84	<b>6680MA</b> Std-.25-.50-.75MM	From 10/83; <b>A-Series aluminum bearings</b>
1	Main Set	84	<b>6799M</b> Std-.25MM	To 9/83
1	Thrust Washer Set	88-84	<b>3926AF</b> Std Only	
1	Rod Set	88-85	<b>4-1025PA</b> Std-.25-.50-.75MM	Eng. Codes "4AC" & "4ALC"
1	Rod Set	84	<b>4-1025PA</b> Std-.25-.50-.75MM	From 10/83
1	Rod Set	84	<b>4-3925P</b> Std-.25-.50MM	To 9/83
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	88-86	<b>260-1456</b>	Eng. Code "4ALC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	88-84	<b>381-8070</b>	
<b>KITS</b>				
YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
88-86	Eng. Code "4ALC"; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains	<b>205-6127M</b>	----
88-86	Eng. Code "4ALC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6127</b>	----

**1.6L 1587cc DOHC L4 (16 Valve), 81mm Bore 1990-85 8**

Eng. Codes "4AF" 1988-89, "4AFE" 1988-97, "4AGE" 1988-91, "4AGEC" 1985-87, "4AGELC" 1985-89

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	<b>222-B176</b>	Eng. Code "4AGE"
1	Timing Belt	90-88	<b>222-36</b>	Eng. Codes "4AF" & "4AFE"
1	Timing Belt	90-88	<b>222-112</b>	Eng. Codes "4AGEC" & "4AGELC"
1	Timing Belt	87-85	<b>222-112</b>	Eng. Codes "4AGEC" & "4AGELC"
1	Timing Belt Tensioner	90-88	<b>222-66BT</b>	Eng. Codes "4AF" & "4AFE"
1	Timing Belt & Tensioner Set	90-88	<b>BTS-36</b>	Eng. Codes "4AF" & "4AFE"
1	Timing Belt & Tensioner Set	87-85	<b>BTS-70</b>	
1	Crank Sprocket	90-85	<b>223-2021</b>	Eng. Codes "4AGE" & "4AGELC"; 18 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	90-85	<b>AT-6003</b> Std Only	Mech.
1	Prelube	90-85	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90-88	<b>V-2575</b> Std Only	Eng. Codes "4AF" & "4AFE"; .9640" Head Dia., .2350" Stem Dia., 3.6190" O.A.L.
8	Intake	90-88	<b>V-2574</b> Std Only	Eng. Codes "4AF" & "4AFE"; 1.1820" Head Dia., .2355" Stem Dia., 3.6000" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90-88	<b>VG-913</b>	Eng. Codes "4AF" & "4AFE"; .2370" ID, 1.5200" O.A.L.
16	Guide	90-88	<b>VG-791</b>	Eng. Codes "4AGE" & "4AGEC"; .2350" ID, 1.6000" O.A.L.
16	Guide	87-85	<b>VG-791</b>	.2350" ID, 1.6000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring	90	<b>VS-932</b>	Eng. Code "4AFE"; 1.7320" Free Height
16	Spring	89-88	<b>VS-932</b>	Eng. Codes "4AF" & "4AFE"; 1.7320" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal	90	<b>ST-2079</b>	Exh. & Int.; To 10/90; Positive type; Rubber
16	Valve Stem Seal	89-88	<b>ST-2079</b>	Exh. & Int.; Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90-88	<b>245-1062-50</b> Std Only	Eng. Codes "4AF" & "4AFE"; 1.0695" OD, .7900" ID, .2540" Depth
8	Exh.	90-88	<b>245-1125-51</b> Std Only	Eng. Codes "4AGE" & "4AGEC"; 1.1320" OD, .8540" ID, .2370" Depth
8	Int.	90-85	<b>245-1250-54</b> Std Only	1.056" ID top taper; 1.2570" OD, 1.0100" ID, .2570" Depth
8	Exh.	87-85	<b>245-1125-51</b> Std Only	1.1320" OD, .8540" ID, .2370" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper	90-85	<b>VK-242</b>	

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## 8 1.6L 1587cc DOHC L4 (16 Valve), 81mm Bore 1990-85

(cont.) Eng. Codes "4AF" 1988-89, "4AFE" 1988-97, "4AGE" 1988-91, "4AGEC" 1985-87, "4AGELC" 1985-89

QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	90-88	<b>12764P</b> Std-.50-.75-1.00MM	Eng. Codes "4AF" & "4AFE"; Use w/E-540KC or E-540X ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep
4	Cast Piston	88-87	<b>12902P</b> Std-.50-1.00MM	Eng. Codes "4AGEC" & "4AGELC"; To 8/87; Use w/E-456KC or E-456X ring set; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 30.5mm CD, 18.0mm Pin Dia., Domed Head 0.20mm high w/4 valve reliefs
4	Cast Piston	86-85	<b>12902P</b> Std-.50-1.00MM	Eng. Codes "4AGEC" & "4AGELC"; Use w/E-456KC or E-456X ring set; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 30.5mm CD, 18.0mm Pin Dia., Domed Head 0.20mm high w/4 valve reliefs
4	Cast Piston - Individual	90-88	<b>W12764P</b> Std Only	Eng. Codes "4AF" & "4AFE"; Use w/WE-540KC ring set; Cast; 2-1.50mm, 1-3.00mm Ring Groove, 1.190" CD, .7089" Pin Dia., Recessed Head .108" deep
4	Cast Piston - Individual	88-87	<b>W12902P</b> Std-.50MM	Eng. Codes "4AGEC" & "4AGELC"; To 8/87; Use w/WE-456KC or WE-456X ring set; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 30.5mm CD, 18.0mm Pin Dia., Domed Head 0.20mm high w/4 valve reliefs
4	Cast Piston - Individual	86-85	<b>W12902P</b> Std-.50MM	Eng. Codes "4AGEC" & "4AGELC"; Use w/WE-456KC or WE-456X ring set; Cast; 2-1.50mm, 1-2.80mm Ring Groove, 30.5mm CD, 18.0mm Pin Dia., Domed Head 0.20mm high w/4 valve reliefs
4	Pin Bushing	90-88	<b>4604Y</b>	Eng. Codes "4AGE" & "4AGELC"
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90	<b>E-540KC</b> Std-.50-.75-1.00MM	Eng. Code "4AFE"; 2-1.50MM, 1-3.00MM
1	Premium Set	90	<b>E-517KC</b> Std-.50MM	Eng. Code "4AGE"; 1-1.20MM, 1-1.50MM, 1-2.80MM
1	Premium Set	89-88	<b>E-540KC</b> Std-.50-.75-1.00MM	Eng. Codes "4AF" & "4AFE"; 2-1.50MM, 1-3.00MM
1	Premium Set	89-88	<b>E-456KC</b> Std-.50-.75-1.00MM	Eng. Codes "4AGE", "4AGEC" & "4AGELC"; 2-1.50MM, 1-2.80MM
1	Premium Set	87-85	<b>E-456KC</b> Std-.50-.75-1.00MM	Eng. Codes "4AGEC" & "4AGELC"; 2-1.50MM, 1-2.80MM
1	Standard Set	90	<b>E-540X</b> Std Only	Eng. Code "4AFE"; 2-1.50MM, 1-3.00MM
1	Standard Set	89-88	<b>E-540X</b> Std Only	Eng. Codes "4AF" & "4AFE"; 2-1.50MM, 1-3.00MM
1	Standard Set	89-88	<b>E-456X</b> Std-.75-1.00MM	Eng. Codes "4AGE" & "4AGELC"; 2-1.50MM, 1-2.80MM
1	Standard Set	87-85	<b>E-456X</b> Std-.75-1.00MM	Eng. Codes "4AGEC" & "4AGELC"; 2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	90	<b>WE-540KC</b> Std-.50MM	Eng. Code "4AFE"; 2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	90	<b>WE-517KC</b> Std Only	Eng. Code "4AGE"; 1-1.20MM, 1-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	89-88	<b>WE-540KC</b> Std-.50MM	Eng. Codes "4AF" & "4AFE"; 2-1.50MM, 1-3.00MM
4	Premium Single Cylinder Set	89-88	<b>WE-456KC</b> Std-.50-.75-1.00MM	Eng. Codes "4AGE" & "4AGELC"; 2-1.50MM, 1-2.80MM
4	Premium Single Cylinder Set	87-85	<b>WE-456KC</b> Std-.50-.75-1.00MM	Eng. Codes "4AGEC" & "4AGELC"; 2-1.50MM, 1-2.80MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-85	<b>6680MA</b> Std-.25-.50-.75MM	<b>A-Series aluminum bearings</b>
1	Thrust Washer Set	90-85	<b>3926AF</b> Std Only	Position 3
1	Rod Set	90-85	<b>4-1025PA</b> Std-.25-.50-.75MM	Eng. Codes "4AGEC", "4AGELC" & "4AGZE"
1	Rod Set	87-85	<b>4-1025PA</b> Std-.25-.50-.75MM	Eng. Codes "4AF" & "4AFE"
4	Rod Pair	90-88	<b>4600P</b> Std-.25MM	Eng. Codes "4AGE" & "4AGZE"
4	Rod Pair	90-88	<b>4600P</b> Std-.25MM	Eng. Codes "4AGEC" & "4AGELC"
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Screen Assy.	90-85	<b>224-14289</b>	Eng. Codes "4AFE", "4AGEC" & "4AGELC"
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	<b>260-1457</b>	Eng. Code "4AFE"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	90	<b>260-1779</b>	Eng. Code "4AGE"; To 2/28/90; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89-88	<b>260-1457</b>	Eng. Codes "4AF" & "4AFE"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	89-88	<b>260-1779</b>	Eng. Codes "4AGE" & "4AGELC"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	87-85	<b>260-1779</b>	Eng. Codes "4AGEC" & "4AGELC"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-85	<b>381-8070</b>	
RE-RING KIT			<b>PREMIUM</b>	<b>ECONOMY</b>
YEARS	DESCRIPTION		<b>KIT NO.</b>	<b>KIT NO.</b>
89-88	Eng. Codes "4AGEC" & "4AGELC"; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6779E</b>	<b>205-1779E</b>

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<b>1.6L 1587cc DOHC L4 (16 Valve), 81mm Bore 1990-85 8</b>					
Eng. Codes "4AF" 1988-89, "4AFE" 1988-97, "4AGE" 1988-91, "4AGEC" 1985-87, "4AGELC" 1985-89 (cont.)					
<b>K I T S</b>	<b>RE-RING KIT (cont.)</b>			<b>PREMIUM</b>	<b>ECONOMY</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>		<b>KIT NO.</b>	<b>KIT NO.</b>
	89-88	Eng. Codes "4AGEC" & "4AGELC"; Head bolts not incl.; Re-ring w/Mains PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series</b> <b>aluminum bearings</b>		<b>205-6779EM</b>	<b>205-1779EM</b>
	87-85	Eng. Codes "4AGEC" & "4AGELC"; Head bolts not incl.; Re-ring PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		<b>205-6779E</b>	<b>205-1779E</b>
87-85	Eng. Codes "4AGEC" & "4AGELC"; Head bolts not incl.; Re-ring w/Mains PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. <b>A-Series</b> <b>aluminum bearings</b>		<b>205-6779EM</b>	<b>205-1779EM</b>	
<b>1.6L 1588cc OHV L4 (8 Valve), 85mm Bore 1979-71 9</b>					
Eng. Codes "2T" 1971, "2TC" 1971-79					
<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Complete Set	79-71	<b>KT-1022S</b>	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal	
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Lifter	79-74	<b>AT-6006</b> Std Only	Mech.	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	79-71	<b>ST-2037</b>	Positive type; Rubber	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	79-71	<b>VK-210</b>	2 groove	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Cast Piston	76	<b>12152P1.50MM</b> 1.50MM	To 8/76; Use w/E-360KC or E-360X ring set; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 39.0mm plus 14.0mm dome" CD, 22.0mm Pin Dia., Domed Head 14.00mm high - 8.5:1 C.R.	
4	Cast Piston	75	<b>12152P1.50MM</b> 1.50MM	Use w/E-360KC or E-360X ring set; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 39.0mm plus 14.0mm dome" CD, 22.0mm Pin Dia., Domed Head 14.00mm high - 8.5:1 C.R.	
4	Cast Piston	74	<b>12152P1.50MM</b> 1.50MM	From 8/74; Use w/E-360KC or E-360X ring set; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 39.0mm plus 14.0mm dome" CD, 22.0mm Pin Dia., Domed Head 14.00mm high - 8.5:1 C.R.	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Premium Set	79-78	<b>E-436KC</b> Std-.50MM	2-1.50MM, 1-4.00MM	
1	Premium Set	77-71	<b>E-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
1	Standard Set	79-78	<b>E-436X</b> Std-.75-1.00MM	2-1.50MM, 1-4.00MM	
1	Standard Set	77-71	<b>E-360X</b> Std-.50-.75-1.00-1.50MM	2-2.00MM, 1-4.00MM	
4	Premium Single Cylinder Set	79-78	<b>WE-436KC</b> Std Only	2-1.50MM, 1-4.00MM	
4	Premium Single Cylinder Set	77-71	<b>WE-360KC</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
4	Standard Single Cylinder Set	79-78	<b>WE-436X</b> Std Only	2-1.50MM, 1-4.00MM	
4	Standard Single Cylinder Set	77-71	<b>WE-360X</b> Std-.50-.75-1.00MM	2-2.00MM, 1-4.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	79-71	<b>6786M</b> Std-.25-.50-.75MM	w/o thrust washer	
1	Thrust Washer Set	79-71	<b>67277BF</b> Std Only	Position 3	
1	Rod Set	79-71	<b>4-67275CP</b> Std-.25-.50-.75MM		
1	Cam Set	79-71	<b>1794M</b> Std Only	Full round design	
1	Cam Set	79-71	<b>1708M</b> Std Only	O.E. split type design	
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	79-75	<b>224-41904</b>	Incl. screen	
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Kit Gasket Set	79-77	<b>260-1062</b>	Premium valve stem seals incl.	
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	79-71	<b>381-8034</b>		
<b>RE-RING KIT</b>					
<b>YEARS</b>	<b>DESCRIPTION</b>		<b>PREMIUM</b>	<b>ECONOMY</b>	
79-78	Premium valve stem seals incl.	Re-ring	<b>205-852</b>	<b>205-352</b>	
77	Premium valve stem seals incl.	Re-ring	<b>205-805</b>	<b>205-305</b>	

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## 10 1.8L 1770cc OHV L4 (8 Valve), 85mm Bore 1982-80 Eng. Code "3TC" 1980-82

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	82-80	KT-1022S	Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
8	CAMSHAFT/LIFTER Lifter	82-80	AT-6006 Std Only	Mech.
8	VALVE SEAL Valve Stem Seal	82-80	ST-2039	Positive type; Rubber
16	VALVE, MISC Keeper	82-80	VK-210	2 groove
1	RINGS Premium Set	82-80	E-436KC Std-.50MM	2-1.50MM, 1-4.00MM
1	Standard Set	82-80	E-436X Std-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	82-80	WE-436KC Std Only	2-1.50MM, 1-4.00MM
4	Standard Single Cylinder Set	82-80	WE-436X Std Only	2-1.50MM, 1-4.00MM
1	ENGINE BEARINGS Main Set	82-80	6786M Std-.25-.50-.75MM	w/o thrust washer
1	Thrust Washer Set	82-80	67277BF Std Only	Position 3
1	Rod Set	82-80	4-67275CP Std-.25-.50-.75MM	
1	Cam Set	82-80	1794M Std Only	Full round design
1	Cam Set	82-80	1708M Std Only	O.E. split type design
1	OIL PUMP Oil Pump	82-80	224-41904	Incl. screen
1	GASKETS Kit Gasket Set	80	260-1062	Premium valve stem seals incl.
1	FREEZE PLUGS Brass Block Plug Kit	82-80	381-8034	
<b>RE-RING KIT</b>				
80	YEARS DESCRIPTION			
	Premium valve stem seals incl.		Re-ring	
			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
			205-852	205-352

## 11 1.8L 1839cc SOHC Diesel L4 (8 Valve), 83mm Bore 1985-84 Eng. Code "1CLC" 1984-85

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85	222-B98	To 8/85
1	Timing Belt	84	222-B98	
1	Timing Belt Tensioner	85	222-316BT	Lower; To 8/85
1	Timing Belt Tensioner	85	222-317BT	Upper; To 8/85; Spring loaded
1	Timing Belt Tensioner	84	222-316BT	Lower
1	Timing Belt Tensioner	84	222-317BT	Upper; Spring loaded
8	VALVE SEAL Valve Stem Seal	85-84	ST-2037	Positive type; Rubber
16	VALVE, MISC Keeper	85-84	VK-241	
4	PISTON Cast Piston	84	12552P Std Only	From 8/83 to 8/84; Cast; 2-2.00mm, 1-4.00mm Ring Groove, 47.0mm CD, 27.0mm Pin Dia., Recessed Head 1.20mm deep
1	ENGINE BEARINGS Main Set	85-84	6798MA Std-.25MM	A-Series aluminum bearings
1	Thrust Washer Set	85-84	3916AF Std Only	Position 3
1	Rod Set	85-84	4-3915CP Std Only	

## 12 1.8L 1839cc SOHC Turbo-Diesel L4 (8 Valve), 83mm Bore 1985-84 Eng. Code "1CTL" 1984-86

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85	222-B98	To 8/85
1	Timing Belt	84	222-B98	
1	Timing Belt Tensioner	85-84	222-317BT	Spring loaded
1	Timing Belt Tensioner	85-84	222-316BT	Stationary
16	VALVE, MISC Keeper	85-84	VK-241	
1	ENGINE BEARINGS Main Set	85-84	7111MA Std-.25MM	A-Series aluminum bearings
1	Thrust Washer Set	85-84	3916AF Std Only	Position 3



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<b>1.9L 1858cc SOHC L4 (8 Valve), 86mm Bore 1972-69 13</b>				
Eng. Codes "8R" 1969-71, "8RC" 1969-71				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	71-69	<b>KT-1021S</b>	Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
8	<b>VALVE SEAL</b> Valve Stem Seal	72-69	<b>ST-2037</b>	<b>DESCRIPTION</b> Positive type; Rubber
16	<b>VALVE, MISC</b> Keeper	72-69	<b>VK-210</b>	<b>DESCRIPTION</b> 2 groove
<b>B L O C K</b>	<b>PISTON</b> Cast Piston	71	<b>12110P</b> Std-.50MM	<b>DESCRIPTION</b> Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.8mm CD, 22.0mm Pin Dia., Flat Head - 9.0:1 C.R.
	<b>ENGINE BEARINGS</b> Rod Set	72-69	<b>4-3960CPA</b> Std-.25-.50-.75-100MM	<b>DESCRIPTION</b>
	1 1	Cam Set Aux. Shaft Set	72-69 72-69	<b>1569M</b> Std Only <b>1729M</b>
<b>1.9L 1897cc OHV L4 (8 Valve), 88mm Bore 1970-61 14</b>				
Eng. Codes "3RB" 1961-66, "3RC" 1967-70				
4	<b>VALVE GUIDE</b> Guide	70-61	<b>VG-670</b>	<b>DESCRIPTION</b> Int.; .3552" ID, 2.4020" O.A.L.
8	<b>VALVE SEAL</b> Valve Stem Seal	70-61	<b>ST-2037</b>	<b>DESCRIPTION</b> Positive type; Rubber
16	<b>VALVE, MISC</b> Keeper	70-61	<b>VK-210</b>	<b>DESCRIPTION</b> 2 groove
4	<b>PISTON</b> Cast Piston	67-65	<b>12090NP1.00MM</b> 1.00MM	<b>DESCRIPTION</b> Cast; 2-2.50mm, 1-5.00mm Ring Groove, 41.0mm CD, 24.0mm Pin Dia., Flat Head - 8.0:1 C.R.
1 1	Thrust Washer Set Cam Set	70-65 70-65	<b>67033BF</b> Std Only <b>1564M</b> Std Only	<b>DESCRIPTION</b> Position 2
<b>2.0L 1968cc SOHC L4 (8 Valve), 88.5mm Bore 1974-72 15</b>				
Eng. Code "18RC" 1972-74				
1	<b>TIMING</b> Complete Set	74-72	<b>KT-1021S</b>	<b>DESCRIPTION</b> Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
8	<b>VALVE SEAL</b> Valve Stem Seal	74-72	<b>ST-2037</b>	<b>DESCRIPTION</b> Positive type; Rubber
16	<b>VALVE, MISC</b> Keeper	74-72	<b>VK-210</b>	<b>DESCRIPTION</b> 2 groove
<b>B L O C K</b>	<b>PISTON</b> Pin Bushing Set	74-72	<b>4-3964Y</b>	<b>DESCRIPTION</b>
	<b>RINGS</b> Standard Set	74-72	<b>E-364X</b> Std Only	<b>DESCRIPTION</b> 1-2.00MM, 1-2.50MM, 1-4.00MM
	Standard Set	74-72	<b>E-437X</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
	Premium Single Cylinder Set	74-72	<b>WE-364KC</b> Std-.50-.75MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	Premium Single Cylinder Set	74-72	<b>WE-437KC</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
	Standard Single Cylinder Set	74-72	<b>WE-364X</b> Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	Standard Single Cylinder Set	74-72	<b>WE-437X</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
<b>ENGINE BEARINGS</b> Rod Set	74-72	<b>4-3960CPA</b> Std-.25-.50-.75-100MM	<b>DESCRIPTION</b>	
1	Aux. Shaft Set	74-72	<b>1729M</b>	
<b>2.0L 1974cc SOHC Turbo-Diesel L4 (8 Valve), 86mm Bore 1986 16</b>				
Eng. Code "2CTL" 1986				
1 1	<b>ENGINE BEARINGS</b> Main Set Thrust Washer Set	86 86	<b>7111MA</b> Std-.25MM <b>3916AF</b> Std Only	<b>DESCRIPTION</b> <b>A-Series aluminum bearings</b> Position 3
<b>2.0L 1995cc SOHC L4 (8 Valve), 84mm Bore 1986-83 17</b>				
Eng. Code "2SELC" 1983-86				
1 1 1	<b>TIMING</b> Timing Belt Timing Belt Tensioner Belt Idler	86-83 86-83 86-83	<b>222-87</b> <b>222-104BT</b> <b>222-111BT</b>	<b>DESCRIPTION</b>

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## 17 2.0L 1995cc SOHC L4 (8 Valve), 84mm Bore 1986-83

(cont.) Eng. Code "2SELC" 1983-86

QTY	PART NO.	YEARS	DESCRIPTION
8	<b>CAMSHAFT/LIFTER</b> Lifter	86-83	<b>HT-6004</b> Std Only Hyd.
4	<b>VALVE</b> Exhaust	86-83	<b>V-2357</b> Std Only Nitrided stem; 1.3386" Head Dia., .3135" Stem Dia., 4.3010" O.A.L.
8	<b>VALVE SEAL</b> Valve Stem Seal	86-83	<b>ST-2074</b> Positive type; Rubber
4	<b>VALVE SEAT</b> Exh.	86-83	<b>245-1437-66</b> Std Only 1.4445" OD, 1.1200" ID, .3000" Depth
16	<b>VALVE, MISC</b> Keeper	86-83	<b>VK-210</b> 2 groove
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	86-83	<b>E-519K.50MM</b> .50MM
	1	86-83	<b>E-519X</b> Std Only
	4	86-83	<b>WE-519KC</b> Std Only
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	86-83	<b>6622MA</b> Std-.25MM
	1	86-83	<b>67277BF</b> Std Only
	1	86-83	<b>4-3895RA</b> Std-.25MM

## 18 2.0L 1998cc DOHC L4 (16 Valve), 86mm Bore 1990-86

Eng. Codes "3SFE" 1987-92, "3SGELC" 1986-89

QTY	PART NO.	YEARS	DESCRIPTION
1	<b>TIMING</b> Timing Belt	90-86	<b>222-138</b>
1	Timing Belt Tensioner	90-86	<b>222-301BT</b> Upper
1	Timing Belt & Tensioner Set	89-87	<b>BTS-199</b>
1	Belt Idler	90-86	<b>222-111BT</b> Lower
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	90-87	<b>CS-1551</b>
	16	90-86	<b>AT-6003</b> Std Only
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	90-87	<b>KC-1551</b>
	1	90-87	<b>55-400</b>
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	16	90-86	<b>VG-811</b>
	16	90-86	<b>VS-869</b>
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	8	90	<b>ST-2079</b>
	16	90	<b>ST-2079</b>
	8	90	<b>ST-2113</b>
	16	89-86	<b>ST-2079</b>
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	8	90-86	<b>245-1250-55</b> Std Only
	8	90-86	<b>245-1437-67</b> Std Only
<b>V</b> <b>A</b> <b>L</b> <b>V</b> <b>E</b> <b>T</b> <b>R</b> <b>A</b> <b>I</b> <b>N</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	32	90-86	<b>VK-242</b>
	<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	<b>QTY</b>	<b>YEARS</b>
4		90-87	<b>H833CP</b> Std-.50-.75-1.00MM
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	1	90-86	<b>4-3899Y</b>
	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
1	90	<b>E-523KC</b> Std-.75-1.00MM	
1	89-86	<b>E-523KC</b> Std-.75-1.00MM	
1	90	<b>E-523X</b> Std Only	
1	89-86	<b>E-523X</b> Std Only	
4	90	<b>WE-523KC</b> Std-.50MM	
4	89-86	<b>WE-523KC</b> Std-.50MM	
<b>B</b> <b>L</b> <b>O</b> <b>C</b> <b>K</b>	<b>QTY</b>	<b>YEARS</b>	<b>PART NO.</b>
	1	90-86	<b>6622MA</b> Std-.25MM
	1	90-86	<b>67277BF</b> Std Only
1	90-86	<b>4-3895RA</b> Std-.25MM	

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## 2.0L 1998cc DOHC L4 (16 Valve), 86mm Bore 1990-86 18

Eng. Codes "3SFE" 1987-92, "3SGELC" 1986-89 (cont.)

BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
BLOCK	1	Oil Pump	90-86	224-41948			
	1	Screen Assy.	90-87	224-14288	Eng. Code "3SFE"		
	1	Screen Assy.	89-86	224-14288	Eng. Code "3SGELC"		
BLOCK	QTY	GASKETS	YEARS	PART NO.	DESCRIPTION		
	1	Kit Gasket Set	90-87	260-1502	Eng. Code "3SFE"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
	1	Brass Block Plug Kit	90-86	381-8091			
KITS	RE-RING KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
		90	Eng. Code "3SFE"; To 5/90; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6181	----
		89-87	Eng. Code "3SFE"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6181	----
	OVERHAUL KIT		YEARS	DESCRIPTION		PREMIUM KIT NO.	ECONOMY KIT NO.
		90	Eng. Code "3SFE"; To 5/90; Cam kit & freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-6181A	----
		90	To 5/90; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block		BKP-6314 BK-6314	----
		89-87	Eng. Code "3SFE"; Cam kit & freeze plugs not incl.; Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-6181A	----
		89-87	Incl. <b>A-Series aluminum bearings</b> ; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs Block		BKP-6314 BK-6314	----

## 2.0L 1998cc DOHC Turbo L4 (16 Valve), 86mm Bore 1990-88 19

Eng. Code "3SGTE" 1988-95

BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION		
BLOCK	1	Timing Belt Tensioner	90	222-331BT	Spring loaded		
	1	Timing Belt & Tensioner Set	89-88	BTS-199			
	1	Belt Idler	90	222-111BT	Lower		
BLOCK	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	16	Guide	90-88	VG-811	.2400" ID, 1.7700" O.A.L.		
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION		
8	Valve Stem Seal	90	ST-2079	Exh.; To 6/90; Positive type; Rubber			
8	Valve Stem Seal	90	ST-2079	Int.; Positive type; Rubber			
8	Valve Stem Seal	89	ST-2079	Exh.; From 9/89; Positive type; Rubber			
BLOCK	QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION		
	8	Exh.	90-88	245-1250-55 Std Only	1.100" ID top taper; 1.2570" OD, 1.0050" ID, .2550" Depth		
	8	Int.	90-88	245-1437-67 Std Only	1.270" ID top taper; 1.4445" OD, 1.1800" ID, .2550" Depth		
BLOCK	QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION		
	32	Keeper	90-88	VK-242			
	QTY	PISTON	YEARS	PART NO.	DESCRIPTION		
1	Pin Bushing Set	90-88	4-3899Y				
BLOCK	QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
	1	Premium Set	90	E-606KC Std-.50MM	From 5/90; 1-1.20MM, 1-1.50MM, 1-4.00MM		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
1	Main Set	90-88	6622MA Std-.25MM	<b>A-Series aluminum bearings</b>			
1	Thrust Washer Set	90-88	67277BF Std Only	Position 3			
1	Rod Set	90-88	4-3895RA Std-.25MM				
BLOCK	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION		
	1	Oil Pump	90-88	224-41985	w/o Sensor		
	1	Screen Assy.	90-88	224-14288			
	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION		
1	Brass Block Plug Kit	90-88	381-8091				

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## 20 2.2L 2164cc DOHC L4 (16 Valve), 87mm Bore 1990 Eng. Codes "5SFE" 1990-2001, "5SNFE" 2000-2001 (CNG)

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN	
	1	Timing Belt	90	222-138			
	1	Timing Belt Tensioner	90	222-301BT	Upper		
	1	Timing Belt & Tensioner Set	90	BTS-199			
	1	Belt Idler	90	222-111BT	Lower		
	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
	16	Lifter	90	AT-6003 Std Only	Mech.		
	QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
	16	Guide	90	VG-791	Exh. & Int.; Celica; .2350" ID, 1.6000" O.A.L.		
	QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
16	Spring	90	VS-869	Celica; 1.7960" Free Height			
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION			
8	Valve Stem Seal	90	ST-2079	Exh.; Positive type; Rubber			
8	Valve Stem Seal	90	ST-2113	Int.; Positive type; Viton®			
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION			
8	Exh.	90	245-1062-50 Std Only	1.0695" OD, .7900" ID, .2540" Depth			
8	Int.	90	245-1375-56 Std Only	1.3820" OD, 1.1020" ID, .2600" Depth			
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION			
32	Keeper	90	VK-242				
BLOCK	QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK	
	4	Cast Piston	90	H827P Std-.50MM	Hypereutectic; 2-1.50mm, 1-4.00mm Ring Groove, 1.268" CD, .8664" Pin Dia., Recessed Head .180" deep w/4 valve reliefs		
	1	Pin Bushing Set	90	4-3899Y			
	QTY	RINGS	YEARS	PART NO.	DESCRIPTION		
	1	Premium Set	90	E-609KC Std Only	2-1.50MM, 1-3.00MM		
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION		
	1	Main Set	90	6622MA Std-.25MM	A-Series aluminum bearings		
1	Thrust Washer Set	90	67277BF Std Only				
1	Rod Set	90	4-4450P Std-.25-.50MM				
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION			
1	Oil Pump	90	224-41948	Celica			
1	Screen Assy.	90	224-14288	Celica			
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION			
1	Kit Gasket Set	90	260-1750	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION			
1	Brass Block Plug Kit	90	381-8091				
KITS	RE-RING KIT				PREMIUM KIT NO.	ECONOMY KIT NO.	KITS
	YEARS	DESCRIPTION					
90		Incl. A-Series aluminum bearings; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring w/Mains		205-6750AM	----	
90		PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6750A	----	

## 21 2.2L 2189cc SOHC L4 (8 Valve), 88.5mm Bore 1980-75 Eng. Code "20R" 1975-80

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	VALVE TRAIN
	1	Complete Set	80-75	KT-1019S	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal	
	1	Timing Chain	80-75	222-3DR98	Double rlr.; 98 Links	
	1	Timing Chain Tensioner	80-75	222-16CT		
	1	Timing Chain Guide	80-75	222-26GP	Tension Side	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION		
1	Camshaft	80-75	CS-719			
1	Prelube	80-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION		
8	Arm	80-75	R-890			
1	Rocker Shaft	80-75	RS-628	Exh.		
1	Rocker Shaft	80-75	RS-629	Int.		
1	Rocker Shaft	80-75	RS-704	Int.		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION		
8	Guide	80-75	VG-706	Exh. & Int.; .3160" ID, 2.2600" O.A.L.		
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION		
8	Spring	80-75	VS-786	1.8250" Free Height		

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## 2.2L 2189cc SOHC L4 (8 Valve), 88.5mm Bore 1980-75 **21**

Eng. Code "20R" 1975-80 (cont.)

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	80-75	ST-2037	Positive type; Rubber
16	VALVE, MISC Keeper	80-75	VK-210	DESCRIPTION 2 groove
1	PISTON Pin Bushing Set	80-75	4-3964Y	DESCRIPTION
1	RINGS Standard Set	80	E-437X Std Only	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
1	Standard Set	79-75	E-364X Std Only	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM
4	Premium Single Cylinder Set	80	WE-437KC Std Only	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
4	Premium Single Cylinder Set	79-75	WE-364KC Std.-50-.75MM	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM
4	Standard Single Cylinder Set	80	WE-437X Std Only	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
4	Standard Single Cylinder Set	79-75	WE-364X Std.-50-.75-1.00MM	DESCRIPTION 1-2.00MM, 1-2.50MM, 1-4.00MM
1	ENGINE BEARINGS Main Set	80-75	7142M Std.-25-.50-.75MM	DESCRIPTION
1	Thrust Washer Set	80-75	67332AF Std.-25MM	Position 3
1	Rod Set	80-75	4-3960CPA Std.-25-.50-.75-100MM	
1	Cam Set	80-75	1859M Std Only	
1	OIL PUMP Oil Pump	80-78	224-41902	DESCRIPTION
1	GASKETS Kit Gasket Set	80-75	260-1065	DESCRIPTION PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	FREEZE PLUGS Brass Block Plug Kit	80-75	381-8042	DESCRIPTION
KITS	<b>RE-RING KIT</b>			
	YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>
	80	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	----- 205-353
	79-75	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	----- 205-301
KITS	<b>OVERHAUL KIT</b>			
	YEARS	DESCRIPTION		<b>PREMIUM KIT NO.</b>
	80	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	----- MK-353A
	79-78	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons	----- MK-301C
<b>2.3L 2253cc SOHC L6 (12 Valve), 75mm Bore 1972-67 <b>22</b></b>				
Eng. Code "2M" 1967-72				
1	TIMING Timing Chain Tensioner	72-68	222-18CT	DESCRIPTION Adjuster
24	VALVE, MISC Keeper	72-67	VK-210	DESCRIPTION 2 groove
1	PISTON Pin Bushing Set	72-68	6-3969Y	DESCRIPTION
1	ENGINE BEARINGS Main Set	72-68	6734M Std Only	DESCRIPTION
1	Thrust Washer Set	72-68	67033BF Std Only	Position 4
1	Rod Set	72-68	6-3965CP Std.-25-.50MM	
1	Cam Set	72-68	1569M Std Only	
1	FREEZE PLUGS Brass Block Plug Kit	72-71	381-8048	DESCRIPTION
<b>2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1985-81 <b>23</b></b>				
Eng. Codes "22R" 1981-85, "22REC" 1983-85				
1	TIMING Complete Set	85	KT-1028S	DESCRIPTION Incl. sprockets, single rlr. chain, tensioner, guides; If the cyl. head or eng. block has been resurfaced use shim
1	Complete Set	84-83	KT-1020S	Incl. sprockets, single rlr. chain, tensioner, guides, gskts. & oil seal
1	Complete Set	82-81	KT-1019S	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal
1	Timing Chain	85	222-S96T2	Single rlr.; 96 Links
1	Timing Chain	84-83	222-SR98T3	Single rlr.; 98 Links
1	Timing Chain	82-81	222-3DR98	Double rlr.; 98 Links

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**23 2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1985-81**  
 (cont.) Eng. Codes "22R" 1981-85, "22REC" 1983-85

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	85-83	222-100CT	
1	Timing Chain Tensioner	82-81	222-16CT	
1	Timing Chain Guide	85	222-133GP	L.H.
1	Timing Chain Guide	85	222-132GP	R.H.
1	Timing Chain Guide	84-83	222-101GP	R.H.
1	Timing Chain Guide	82-81	222-26GP	L.H.
1	Crank Sprocket	85-83	223-593	18 Teeth
1	Cam Sprocket	85-83	223-600	36 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	85-81	CS-719	
1	Prelube	85-81	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
8	Arm	85-81	R-890	
1	Rocker Shaft	85-81	RS-628	Exh.
1	Rocker Shaft	85-81	RS-629	Int.
1	Rocker Shaft	85-81	RS-704	Int.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	85-81	V-2263 Std Only	Chrome plated stem; 1.4567" Head Dia., .3135" Stem Dia., 4.4200" O.A.L.
4	Exhaust, Bulk	85-81	V-2263B Std Only	1 groove; Chrome plated stem; Carton of 25; 1.4567" Head Dia., .3135" Stem Dia., 4.4200" O.A.L.
4	Intake	85-81	V-2264 Std Only	1 groove; Nitrided stem; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.
4	Intake, Bulk	85-81	V-2264B Std Only	1 groove; Nitrided stem; Carton of 25; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	85	VG-793	Exh. & Int.; .3150" ID, 2.2500" O.A.L.
4	Guide	85	VG-706	Exh. & Int.; .3160" ID, 2.2600" O.A.L.
8	Guide	84-81	VG-706	Exh. & Int.; .3160" ID, 2.2600" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	85	VS-1445	1.9730" Free Height
8	Spring	84-81	VS-786	1.8250" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	85-81	ST-2037	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	85-81	245-1562-67 Std Only	1.5695" OD, 1.2550" ID, .3190" Depth
4	Int.	85-81	245-1937-52 Std Only	1.9445" OD, 1.5730" ID, .3790" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85-81	VK-210	2 groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	84-81	12326P Std.-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 5.00mm deep w/dome
4	Cast Piston - Individual	84-81	W12326P Std.-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 5.00mm deep w/dome
1	Cast Piston Set w/Prem. Rings	84-81	4K12326P Std.-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief
1	Pin Bushing Set	85-81	4-3964Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85	E-510K Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	85	E-510KC Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	84-81	E-416KC Std.-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
1	Standard Set	85	E-510X Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	84-81	E-416X Std.-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Premium Single Cylinder Set	85	WE-510KC Std.-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	85	WE-510K1.00MM 1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	84-81	WE-416KC Std.-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Standard Single Cylinder Set	84-81	WE-416X Std.-.50-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	85-83	7148M Std.-.25-.50-.75MM	
1	Main Set	82	7148M Std.-.25-.50-.75MM	From 3/82
1	Main Set	82	7142M Std.-.25-.50-.75MM	To 2/82
1	Main Set	81	7142M Std.-.25-.50-.75MM	

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**2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1985-81 23**

Eng. Codes "22R" 1981-85, "22REC" 1983-85 (cont.)

	QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION	
<b>B L O C K</b>	<b>ENGINE BEARINGS</b>					
		(cont.)				
	1	Thrust Washer Set	85	<b>67333AF</b> Std Only	Position 3	
	1	Thrust Washer Set	84	<b>67333AF</b> Std Only	Position 3; From 4/84	
	1	Thrust Washer Set	84	<b>67332AF</b> Std-.25MM	Position 3; To 3/84	
	1	Thrust Washer Set	83-81	<b>67332AF</b> Std-.25MM	Position 3	
	1	Rod Set	85-81	<b>4-3960CPA</b> Std-.25-.50-.75-100MM		
	1	Cam Set	85-81	<b>1859M</b> Std Only		
		<b>OIL PUMP</b>				
	1	Oil Pump	85	<b>224-41940</b>	Eng. Code "22R"	
1	Oil Pump	84-81	<b>224-41902</b>	Eng. Code "22R"		
1	Screen Assy.	85-82	<b>224-14235</b>	Eng. Code "22R"; Exc. Celica		
1	Screen Assy.	81	<b>224-14235</b>	Exc. Celica & Corona		
	<b>GASKETS</b>					
1	Kit Gasket Set	85	<b>260-1503</b>	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	84-83	<b>260-1188</b>	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
1	Kit Gasket Set	82-81	<b>260-1091</b>	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
	<b>FREEZE PLUGS</b>					
1	Brass Block Plug Kit	85-81	<b>381-8042</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>					
	YEARS	DESCRIPTION			<b>PREMIUM KIT NO.</b>	
	85	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-6182</b>	
			Re-ring w/Mains		<b>205-6182M</b>	
	84-83	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-854</b>	
			Re-ring w/Mains		<b>205-854M</b>	
	82-81	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		<b>205-830</b>	
					<b>205-330</b>	
	<b>OVERHAUL KIT</b>					
	YEARS	DESCRIPTION			<b>PREMIUM KIT NO.</b>	
85	Eng. Code "22R"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; If the cyl. head or eng. block has been resurfaced use shim	Master w/o Pistons		<b>MK-6182A</b>		
84	Eng. Code "22R"; To 3/84; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		<b>MKP-854A</b>		
		Master w/o Pistons		<b>MK-854A</b>		
83	Eng. Code "22R"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		<b>MKP-854A</b>		
		Master w/o Pistons		<b>MK-854A</b>		
82	Eng. Code "22R"; From 3/82; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		<b>MKP-830C</b>		
		Master w/o Pistons		<b>MK-830C</b>		
<b>2.5L 2507cc DOHC V6 (24 Valve), 87.5mm Bore 1990-88 24</b>						
Eng. Code "2VZFE" 1988-92						
<b>V A L V E  T R A I N</b>	1	Timing Belt	90-88	<b>222-157</b>		
	12	Lifter	90-88	<b>AT-6003</b> Std Only	Mech.	
	6	Exhaust	90-88	<b>V-2584X</b> Std Only	Chrome plated stem; 1.0790" Head Dia., .2351" Stem Dia., 3.7870" O.A.L.	
	12	Guide	90-88	<b>VG-791</b>	.2350" ID, 1.6000" O.A.L.	
	12	Spring	90-88	<b>VS-934</b>	1.6800" Free Height	
	12	Valve Stem Seal	90-88	<b>ST-2079</b>	Positive type; Rubber	
	6	Exh.	90-88	<b>245-1187-53</b> Std Only	1.1945" OD, .9350" ID, .2350" Depth	
	24	Keeper	90-88	<b>VK-242</b>		
	6	Premium Single Cylinder Set	90-88	<b>WE-563KC</b> Std Only	2-1.50MM, 1-3.00MM	

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<b>24 2.5L 2507cc DOHC V6 (24 Valve), 87.5mm Bore 1990-88</b>				
(cont.) Eng. Code "2VZFE" 1988-92				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7114MA Std-.25-.50MM	A-Series aluminum bearings
1	Thrust Washer Set	90-88	3956BF Std Only	
1	Rod Set	90-88	6-4010RA Std-.25-.50MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8097	
<b>25 2.6L 2563cc SOHC L6 (12 Valve), 80mm Bore 1980-71</b>				
Eng. Codes "4M" 1971-79, "4ME" 1979-80				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Chain Tensioner	80-71	222-18CT	Adjuster
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	80-71	VK-210	2 groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	80-71	6-3969Y	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	80-71	6734M Std Only	
1	Thrust Washer Set	80-71	67033BF Std Only	Position 4
1	Rod Set	80-71	6-3965CP Std-.25-.50MM	
1	Cam Set	76-72	1569M Std Only	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	80-71	381-8048	
<b>26 2.8L 2759cc SOHC L6 (12 Valve), 83mm Bore 1982-81</b>				
Eng. Code "5ME" 1981-82				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	82-81	VK-210	2 groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	82-81	6-3969Y	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	82-81	6734M Std Only	
1	Thrust Washer Set	82-81	67033BF Std Only	Position 4
1	Rod Set	82-81	6-3965CP Std-.25-.50MM	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	82-81	381-8048	
<b>27 2.8L 2759cc DOHC L6 (12 Valve), 83mm Bore 1988-82</b>				
Eng. Code "5MGE" 1982-88				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-84	222-101	
1	Timing Belt Tensioner	88-82	222-96BT	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	88-82	HT-6004 Std Only	Hyd.
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Arm	88-82	R-970	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	88-82	ST-2037	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	88-82	VK-210	2 groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	84	12963P1.00MM 1.00MM	To 8/84; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 33.0mm CD, 22.0mm Pin Dia., Domed Head w/2 valve reliefs
6	Cast Piston	83	12963P1.00MM 1.00MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 33.0mm CD, 22.0mm Pin Dia., Domed Head w/2 valve reliefs
6	Cast Piston	82	12963P1.00MM 1.00MM	From 8/81; Cast; 2-1.50mm, 1-4.00mm Ring Groove, 33.0mm CD, 22.0mm Pin Dia., Domed Head w/2 valve reliefs
1	Pin Bushing Set	88-82	6-3969Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	88-82	E-491KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
1	Standard Set	88-82	E-491X Std Only	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	88-82	WE-491KC Std-.50MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-85	6693M Std-.25-.50MM	
1	Main Set	84	6693M Std-.25-.50MM	From 8/84
1	Main Set	84	6734M Std Only	To 7/84

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## 2.8L 2759cc DOHC L6 (12 Valve), 83mm Bore 1988-82 **27**

Eng. Code "5MGE" 1982-88 (cont.)

<b>B L O C K</b>	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>
	1	(cont.) Main Set	83-82	<b>6734M</b> Std Only		
	1	Thrust Washer Set	88-82	<b>67033BF</b> Std Only	Position 4	
	1	Rod Set	88-85	<b>6-1165CP</b> Std-.25-.50-.75MM		
	1	Rod Set	84	<b>6-1165CP</b> Std-.25-.50-.75MM	From 8/84	
	1	Rod Set	84	<b>6-3965CP</b> Std-.25-.50MM	To 7/84	
1	Rod Set	83-82	<b>6-3965CP</b> Std-.25-.50MM			
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	88-82	<b>260-1292</b>	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	88-82	<b>381-8048</b>			

<b>K I T S</b>	<b>RE-RING KIT</b>			<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	88-85	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6185</b>	----	
	84	To 7/84; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6064</b>	----	
	84	From 8/84; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6185</b>	----	
83-82	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	<b>205-6064</b>	----		

## 3.0L 2954cc DOHC L6 (24 Valve), 83mm Bore 1990-86 **28**

Eng. Code "7MGE" 1986-92

<b>V A L V E T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E T R A I N</b>
	1	Timing Belt	90-86	<b>222-126</b>		
	1	Belt Idler	90-86	<b>222-205BT</b>		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	90-86	<b>CS-1545</b>	Exh.	
	1	Camshaft	90-86	<b>CS-1544</b>	Int.	
	24	Lifter	90-86	<b>AT-6003</b> Std Only	Mech.	
	1	Prelube	90-86	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.	
	<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Guide	90-86	<b>VG-791</b>	Exh.; .2350" ID, 1.6000" O.A.L.	
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	24	Valve Stem Seal	90-86	<b>ST-2079</b>	Positive type; Rubber	
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Exh.	90-86	<b>245-1187-52</b> Std Only	1.1945" OD, .9340" ID, .2570" Depth		
12	Int.	90-86	<b>245-1312-60</b> Std Only	1.3195" OD, 1.0700" ID, .2570" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
48	Keeper	90-86	<b>VK-242</b>			

<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>B L O C K</b>
	1	Pin Bushing Set	90-86	<b>6-3969Y</b>		
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90-86	<b>E-491KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
	1	Standard Set	90-86	<b>E-491X</b> Std Only	2-1.50MM, 1-4.00MM	
	6	Premium Single Cylinder Set	90-86	<b>WE-491KC</b> Std-.50MM	2-1.50MM, 1-4.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-86	<b>6693M</b> Std-.25-.50MM		
	1	Thrust Washer Set	90-86	<b>67033BF</b> Std Only	Position 4	
	1	Rod Set	90-86	<b>6-1165CP</b> Std-.25-.50-.75MM		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-89	<b>224-41942</b>	Supra		
1	Oil Pump	88-86	<b>224-41942</b>			
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-88	<b>381-8097</b>			

## 3.0L 2954cc DOHC Turbo L6 (24 Valve), 83mm Bore 1990-87 **29**

Eng. Code "7MGTE" 1987-92

<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Timing Belt	90-87	<b>222-126</b>	
1	Belt Idler	90-87	<b>222-205BT</b>	

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# Toyota Car

## 29 3.0L 2954cc DOHC Turbo L6 (24 Valve), 83mm Bore 1990-87

(cont.) Eng. Code "7MGTE" 1987-92

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
12	Lifter	90-87	AT-6003 Std Only	Mech.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
12	Guide	90-87	VG-791	Exh.; .2350" ID, 1.6000" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
12	Exh.	90-87	245-1187-52 Std Only	1.1945" OD, .9340" ID, .2570" Depth
12	Int.	90-87	245-1312-60 Std Only	1.3195" OD, 1.0700" ID, .2570" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
48	Keeper	90-87	VK-242	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	90-87	6-3969Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-87	E-491KC Std-.50-.75MM	2-1.50MM, 1-4.00MM
6	Premium Single Cylinder Set	90-87	WE-491KC Std-.50MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-87	6693M Std-.25-.50MM	
1	Thrust Washer Set	90-87	67033BF Std Only	Position 4
1	Rod Set	90-87	6-1165CP Std-.25-.50-.75MM	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90-87	224-41942	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-88	381-8097	

## 30 4.0L 3968cc DOHC V8 (32 Valve), 87.5mm Bore 1990

Eng. Code "1UZFE" 1990-2000

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B190	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
16	Exhaust	90	V-4502 Std Only	Chrome plated stem; 1.1020" Head Dia., .2350" Stem Dia., 3.8190" O.A.L.
16	Intake	90	V-4501 Std Only	Chrome plated stem; 1.3190" Head Dia., .2354" Stem Dia., 3.7400" O.A.L.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7366M Std Only	
1	Thrust Washer Set	90	4786F Std Only	Position 3
8	Rod Pair	90	4785P Std-.25MM	
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90	260-1802	LS400; Head bolts not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; RTV sealant incl. for Upper oil pan gskt.

**Toyota Minivans - See Toyota Truck**

**Toyota SUV's - See Toyota Truck**

# Toyota Truck (Includes Minivans and SUV's)

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.9L 1858cc SOHC L4 86mm Bore (8 Valve) L/D Truck.....	1971-70	1	2.4L 2446cc SOHC Diesel L4 92mm Bore (8 Valve) L/D Truck.....	1987-84	10
1.9L 1897cc OHV L4 88mm Bore (8 Valve) L/D Truck.....	1970-65	2	2.4L 2446cc SOHC Turbo-Diesel L4 92mm Bore (8 Valve) L/D Truck.....	1987-84	11
2.0L 1968cc SOHC L4 88.5mm Bore (8 Valve) L/D Truck.....	1974-72	3	3.0L 2958cc SOHC V6 87.5mm Bore (12 Valve) L/D Truck.....	1990-88	12
2.0L 1998cc OHV L4 86mm Bore (8 Valve) L/D Truck.....	1985-84	4	3.2L 3168cc OHV Diesel L4 98mm Bore (8 Valve) L/D Truck.....	1980-78	13
2.2L 2188cc SOHC Diesel L4 90mm Bore (8 Valve) L/D Truck.....	1983-81	5	3.4L 3431cc OHV Diesel L4 102mm Bore (8 Valve) L/D Truck.....	1987-81	14
2.2L 2189cc SOHC L4 88.5mm Bore (8 Valve) L/D Truck.....	1980-75	6	3.9L 3878cc OHV L6 90mm Bore (12 Valve) L/D Truck.....	1974-60	15
2.2L 2237cc OHV L4 91mm Bore (8 Valve) L/D Truck.....	1990-86	7	4.0L 3955cc OHV L6 94mm Bore (12 Valve) L/D Truck.....	1990-88	16
2.4L 2366cc SOHC L4 92mm Bore (8 Valve) L/D Truck.....	1990-81	8	4.2L 4230cc OHV L6 94mm Bore (12 Valve) L/D Truck.....	1987-75	17
2.4L 2366cc SOHC Turbo L4 92mm Bore (8 Valve) L/D Truck.....	1989-85	9			

Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
F.....	3.9L 3878cc OHV L6 90mm Bore (12 Valve) L/D Truck.....	15	22REC.....	2.4L 2366cc SOHC L4 92mm Bore (8 Valve) L/D Truck.....	8
L.....	2.2L 2188cc SOHC Diesel L4 90mm Bore (8 Valve) L/D Truck.....	5	22RTEC.....	2.4L 2366cc SOHC Turbo L4 92mm Bore (8 Valve) L/D Truck.....	9
18RC.....	2.0L 1968cc SOHC L4 88.5mm Bore (8 Valve) L/D Truck.....	3	3B.....	3.4L 3431cc OHV Diesel L4 102mm Bore (8 Valve) L/D Truck.....	14
2B.....	3.2L 3168cc OHV Diesel L4 98mm Bore (8 Valve) L/D Truck.....	13	3FE.....	4.0L 3955cc OHV L6 94mm Bore (12 Valve) L/D Truck.....	16
2F.....	4.2L 4230cc OHV L6 94mm Bore (12 Valve) L/D Truck.....	17	3RC.....	1.9L 1897cc OHV L4 88mm Bore (8 Valve) L/D Truck.....	2
2L.....	2.4L 2446cc SOHC Diesel L4 92mm Bore (8 Valve) L/D Truck.....	10	3VZE.....	3.0L 2958cc SOHC V6 87.5mm Bore (12 Valve) L/D Truck.....	12
2LT.....	2.4L 2446cc SOHC Turbo-Diesel L4 92mm Bore (8 Valve) L/D Truck.....	11	3YEC.....	2.0L 1998cc OHV L4 86mm Bore (8 Valve) L/D Truck.....	4
20R.....	2.2L 2189cc SOHC L4 88.5mm Bore (8 Valve) L/D Truck.....	6	4YEC.....	2.2L 2237cc OHV L4 91mm Bore (8 Valve) L/D Truck.....	7
22R.....	2.4L 2366cc SOHC L4 92mm Bore (8 Valve) L/D Truck.....	8	8RC.....	1.9L 1858cc SOHC L4 86mm Bore (8 Valve) L/D Truck.....	1
22RE.....	2.4L 2366cc SOHC L4 92mm Bore (8 Valve) L/D Truck.....	8			

1.9L 1858cc SOHC L4 (8 Valve), 86mm Bore 1971-70 <span style="float: right;">1</span> L/D Truck Eng. Code "8RC" 1970-71					
BLOCK	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	Complete Set	71-70	KT-1021S	Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
	QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	8	Valve Stem Seal	71-70	ST-2037	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	71-70	VK-210	2 groove	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	BLOCK
4	Cast Piston	71-70	12110P	Std.-50MM Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.8mm CD, 22.0mm Pin Dia., Flat Head - 9.0:1 C.R.	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Rod Set	71-70	4-3960CPA	Std.-.25-.50-.75-100MM	
1	Cam Set	71-70	1569M	Std Only	
1	Aux. Shaft Set	71-70	1729M		
1.9L 1897cc OHV L4 (8 Valve), 88mm Bore 1970-65 <span style="float: right;">2</span> L/D Truck Eng. Codes "3RB" 1965-67, "3RC" 1968-70					
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
4	Guide	70-65	VG-670	Int.; .3552" ID, 2.4020" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	70-65	ST-2079	Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	70-65	VK-210	2 groove	

(continued on next page)

## Toyota Truck (Includes Minivans and SUV's)

<b>2</b> 1.9L 1897cc OHV L4 (8 Valve), 88mm Bore 1970-65 (cont.) L/D Truck Eng. Codes "3RB" 1965-67, "3RC" 1968-70				
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Cast Piston	67-65	<b>12090NP1.00MM</b> 1.00MM	Cast; 2-2.50mm, 1-5.00mm Ring Groove, 41.0mm CD, 24.0mm Pin Dia., Flat Head - 8.0:1 C.R.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Thrust Washer Set	70-65	<b>67033BF</b> Std Only	Position 2
1	Cam Set	70-65	<b>1564M</b> Std Only	
<b>3</b> 2.0L 1968cc SOHC L4 (8 Valve), 88.5mm Bore 1974-72 L/D Truck Eng. Code "18RC" 1972-74				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	74-72	<b>KT-1021S</b>	Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	74-72	<b>ST-2037</b>	Positive type; Rubber
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Int.	74-72	<b>245-1750-4</b> Std Only	w/Cast integral seats; 1.7555" OD, 1.4375" ID, .2480" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	74-72	<b>VK-210</b>	2 groove
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	74-72	<b>4-3964Y</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Standard Set	74-72	<b>E-364X</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM
1	Standard Set	74-72	<b>E-437X</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
4	Premium Single Cylinder Set	74-72	<b>WE-364KC</b> Std-.50-.75MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Premium Single Cylinder Set	74-72	<b>WE-437KC</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
4	Standard Single Cylinder Set	74-72	<b>WE-364X</b> Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Standard Single Cylinder Set	74-72	<b>WE-437X</b> Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	74-72	<b>4-3960CPA</b> Std-.25-.50-.75-100MM	
1	Aux. Shaft Set	74-72	<b>1729M</b>	
<b>4</b> 2.0L 1998cc OHV L4 (8 Valve), 86mm Bore 1985-84 L/D Truck Eng. Code "3YEC" 1984-85				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Complete Set	85-84	<b>KT-1022S</b>	Incl. sprockets, chain, tensioner, guides, gsks. & oil seal
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	85-84	<b>CS-875</b>	
8	Lifter	85-84	<b>HT-6005</b> Std Only	Hyd.
1	Prelube	85-84	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	85-84	<b>RP-3268</b>	6.3800" O.A.L.
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
4	Exhaust	85-84	<b>V-2496</b> Std Only	Nitrided stem; 1.4160" Head Dia., .3140" Stem Dia., 4.2680" O.A.L.
4	Intake	85-84	<b>V-2497</b> Std Only	Chrome plated stem; 1.5800" Head Dia., .3140" Stem Dia., 4.2620" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	85-84	<b>ST-2080</b>	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85-84	<b>VK-241</b>	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-84	<b>E-523KC</b> Std-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	85-84	<b>E-523X</b> Std Only	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	85-84	<b>WE-523KC</b> Std-.50MM	2-1.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	85-84	<b>6650MA</b> Std-.25-.50MM	<b>A-Series aluminum bearings</b>
1	Thrust Washer Set	85-84	<b>67277BF</b> Std Only	Position 3
1	Rod Set	85-84	<b>4-3980RA</b> Std-.25-.50-.75MM	
1	Cam Set	85-84	<b>1771M</b> Std Only	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	85-84	<b>224-41947</b>	

# Toyota Truck (Includes Minivans and SUV's)

2.2L 2188cc SOHC Diesel L4 (8 Valve), 90mm Bore 1983-81 <span style="float: right;">5</span>							
L/D Truck Eng. Code "L" 1981-83							
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION			
8	Guide	83-81	VG-929	.3372" ID, 2.4000" O.A.L.			
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION			
4	Exh.	83-81	245-1437-67 Std Only	1.270" ID top taper; 1.4445" OD, 1.1800" ID, .2550" Depth			
BLOCK	PISTON	YEARS	PART NO.	DESCRIPTION			
	1	Pin Bushing Set	83-81	4-67304Y			
	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
	1	Main Set	83-81	6620MA Std-.25-.50MM	A-Series aluminum bearings; Full grooved		
	1	Main Set	83-81	6621MA Std-.25-.50MM	A-Series aluminum bearings; Partial grooved		
	1	Thrust Washer Set	83-81	3921AF Std Only	Position 3		
1	Rod Set	83-81	4-3920CP Std-.25-.50-.75MM				
1	Cam Set	83-81	1774M Std Only				
2.2L 2189cc SOHC L4 (8 Valve), 88.5mm Bore 1980-75 <span style="float: right;">6</span>							
L/D Truck Eng. Code "20R" 1975-80							
VALVE TRAIN	TIMING	YEARS	PART NO.	DESCRIPTION			
	1	Complete Set	80-75	KT-1019S	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal		
	1	Timing Chain	80-75	222-3DR98	Double rlr.; 98 Links		
	1	Timing Chain Tensioner	80-75	222-16CT			
	1	Timing Chain Guide	80-75	222-26GP	L.H.		
	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION			
	1	Camshaft	80-75	CS-719			
	1	Prelube	80-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION			
	8	Arm	80-75	R-890			
	1	Rocker Shaft	80-75	RS-628	Exh.		
	1	Rocker Shaft	80-75	RS-629	Int.		
	1	Rocker Shaft	80-75	RS-704	Int.		
	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION			
	8	Guide	80-75	VG-706	Exh. & Int.; .3160" ID, 2.2600" O.A.L.		
	VALVE SPRING	YEARS	PART NO.	DESCRIPTION			
8	Spring	80-75	VS-786	1.8250" Free Height			
VALVE SEAL	YEARS	PART NO.	DESCRIPTION				
8	Valve Stem Seal	80-75	ST-2037	Positive type; Rubber			
VALVE, MISC	YEARS	PART NO.	DESCRIPTION				
16	Keeper	80-75	VK-210	2 groove			
BLOCK	PISTON	YEARS	PART NO.	DESCRIPTION			
	1	Pin Bushing Set	80-75	4-3964Y			
	RINGS	YEARS	PART NO.	DESCRIPTION			
	1	Standard Set	80	E-437X Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove		
	1	Standard Set	79-75	E-364X Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM		
	4	Premium Single Cylinder Set	80	WE-437KC Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove		
	4	Premium Single Cylinder Set	79-75	WE-364KC Std-.50-.75MM	1-2.00MM, 1-2.50MM, 1-4.00MM		
	4	Standard Single Cylinder Set	80	WE-437X Std Only	1-2.00MM, 1-2.50MM, 1-4.00MM; w/Shallow oil ring groove		
	4	Standard Single Cylinder Set	79-75	WE-364X Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM		
	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION			
	1	Main Set	80-75	7142M Std-.25-.50-.75MM			
1	Thrust Washer Set	80-75	67332AF Std-.25MM	Position 3			
1	Rod Set	80-75	4-3960CPA Std-.25-.50-.75-100MM				
1	Cam Set	80-75	1859M Std Only				
OIL PUMP	YEARS	PART NO.	DESCRIPTION				
1	Oil Pump	80-78	224-41902				
GASKETS	YEARS	PART NO.	DESCRIPTION				
1	Kit Gasket Set	80-75	260-1065	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.			
FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION				
1	Brass Block Plug Kit	80-75	381-8042				
KITS	RE-RING KIT			PREMIUM KIT NO.	ECONOMY KIT NO.	KITS	
	YEARS	DESCRIPTION					
	80	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	----	205-353		
	79-75	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	----	205-301		

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# Toyota Truck (Includes Minivans and SUV's)

6 2.2L 2189cc SOHC L4 (8 Valve), 88.5mm Bore 1980-75 (cont.) L/D Truck Eng. Code "20R" 1975-80							
<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>	<b>K I T S</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>			----	<b>MK-353A</b>	
	80	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons				
	79-78	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		----	<b>MK-301C</b>	
7 2.2L 2237cc OHV L4 (8 Valve), 91mm Bore 1990-86 L/D Truck Eng. Code "4YEC" 1986-90							
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E  T R A I N</b>	
	1	Complete Set	90-86	<b>KT-1022S</b>	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Camshaft	90-86	<b>CS-875</b>			
	8	Lifter	90-86	<b>HT-6005</b> Std Only	Hyd.		
	1	Prelube	90-86	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Push Rod	90-86	<b>RP-3268</b>	6.3800" O.A.L.		
	<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	4	Exhaust	90-86	<b>V-2496</b> Std Only	Nitrided stem; 1.4160" Head Dia., .3140" Stem Dia., 4.2680" O.A.L.		
	4	Intake	90-86	<b>V-2497</b> Std Only	Chrome plated stem; 1.5800" Head Dia., .3140" Stem Dia., 4.2620" O.A.L.		
	<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Valve Stem Seal	90-86	<b>ST-2080</b>	Positive type; Rubber		
	<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	16	Keeper	90-86	<b>VK-241</b>			
	<b>B L O C K</b>	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>		<b>DESCRIPTION</b>
1		Premium Set	90-86	<b>E-611KC</b> Std.-50-.75-1.00MM	2-1.50MM, 1-4.00MM		
1		Standard Set	90-86	<b>E-611X</b> Std Only	2-1.50MM, 1-4.00MM		
4		Premium Single Cylinder Set	90-86	<b>WE-611KC</b> Std Only	2-1.50MM, 1-4.00MM		
<b>QTY</b>		<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1		Main Set	90-86	<b>6650MA</b> Std.-25-.50MM	<b>A-Series aluminum bearings</b>		
1		Thrust Washer Set	90-86	<b>67277BF</b> Std Only	Position 3		
1		Rod Set	90-86	<b>4-3980RA</b> Std.-25-.50-.75MM			
1		Cam Set	90-86	<b>1771M</b> Std Only			
<b>QTY</b>		<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-86	<b>224-41947</b>				
8 2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1990-81 L/D Truck Eng. Codes "22R" 1981-90, "22RE" 1989-95, "22REC" 1983-88							
<b>V A L V E  T R A I N</b>	<b>QTY</b>	<b>TIMING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>V A L V E  T R A I N</b>	
	1	Complete Set	90-85	<b>KT-1028S</b>	Incl. sprockets, single rlr. chain, tensioner, guides; If the cyl. head or eng. block has been resurfaced use shim		
	1	Complete Set	84-83	<b>KT-1020S</b>	Incl. sprockets, single rlr. chain, tensioner, guides, gskts. & oil seal		
	1	Complete Set	82-81	<b>KT-1019S</b>	Incl. sprockets, chain, tensioner, guides, gskts. & oil seal		
	1	Timing Chain	90-85	<b>222-S96T2</b>	Single rlr.; 96 Links		
	1	Timing Chain	84-83	<b>222-SR98T3</b>	Single rlr.; 98 Links		
	1	Timing Chain	82-81	<b>222-3DR98</b>	Double rlr.; 98 Links		
	1	Timing Chain Tensioner	90-83	<b>222-100CT</b>			
	1	Timing Chain Tensioner	82-81	<b>222-16CT</b>			
	1	Timing Chain Guide	90-85	<b>222-133GP</b>	L.H.		
	1	Timing Chain Guide	90-85	<b>222-132GP</b>	R.H.		
	1	Timing Chain Guide	84-83	<b>222-101GP</b>	R.H.		
	1	Timing Chain Guide	82-81	<b>222-26GP</b>	L.H.		
	1	Crank Sprocket	90-83	<b>223-593</b>	18 Teeth		
	1	Cam Sprocket	90-83	<b>223-600</b>	36 Teeth		
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	1	Camshaft	90-81	<b>CS-719</b>			
	1	Prelube	90-81	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
	8	Arm	90-81	<b>R-890</b>			
	1	Rocker Shaft	90-89	<b>RS-628</b>	Exh.; Eng. Code "22RE"		
	1	Rocker Shaft	90-89	<b>RS-629</b>	Int.; Eng. Code "22RE"		
1	Rocker Shaft	90-89	<b>RS-704</b>	Int.; Eng. Code "22RE"			
1	Rocker Shaft	88-81	<b>RS-628</b>	Exh.			
1	Rocker Shaft	88-81	<b>RS-629</b>	Int.			

(continued on next page)

# Toyota Truck (Includes Minivans and SUV's)

**2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1990-81 8**

L/D Truck Eng. Codes "22R" 1981-90, "22RE" 1989-95, "22REC" 1983-88 (cont.)

QTY	ROCKER PARTS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Rocker Shaft	88-81	<b>RS-704</b>	Int.
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exhaust	90-81	<b>V-2263</b> Std Only	Chrome plated stem; 1.4567" Head Dia., .3135" Stem Dia., 4.4200" O.A.L.
4	Exhaust, Bulk	90-81	<b>V-2263B</b> Std Only	1 groove; Chrome plated stem; Carton of 25; 1.4567" Head Dia., .3135" Stem Dia., 4.4200" O.A.L.
4	Intake	90-81	<b>V-2264</b> Std Only	1 groove; Nitrided stem; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.
4	Intake, Bulk	90-81	<b>V-2264B</b> Std Only	1 groove; Nitrided stem; Carton of 25; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Guide	90-85	<b>VG-793</b>	Exh. & Int.; .3150" ID, 2.2500" O.A.L.
4	Guide	90-85	<b>VG-706</b>	Exh. & Int.; .3160" ID, 2.2600" O.A.L.
8	Guide	84-81	<b>VG-706</b>	Exh. & Int.; .3160" ID, 2.2600" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Spring	90-85	<b>VS-1445</b>	1.9730" Free Height
8	Spring	84-81	<b>VS-786</b>	1.8250" Free Height
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	90	<b>ST-2099</b>	Positive type; Rubber
8	Valve Stem Seal	90-86	<b>ST-2111</b>	Positive type; Viton®
8	Valve Stem Seal	90-81	<b>ST-2037</b>	Positive type; Rubber
8	Valve Stem Seal	88-87	<b>ST-2099</b>	Positive type; Rubber
8	Valve Stem Seal	86	<b>ST-2099</b>	From 5/86; Positive type; Rubber
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Exh.	90-81	<b>245-1562-67</b> Std Only	1.5695" OD, 1.2550" ID, .3190" Depth
4	Int.	90-81	<b>245-1937-52</b> Std Only	1.9445" OD, 1.5730" ID, .3790" Depth
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
16	Keeper	90-81	<b>VK-210</b>	2 groove
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
4	Cast Piston	90-85	<b>12886CP</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief
4	Cast Piston	90-85	<b>12886P +</b> Std-.50-.75-1.00-1.50MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief; When depleted use 12886CP
4	Cast Piston	84-81	<b>12326P</b> Std-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 5.00mm deep w/dome
4	Cast Piston - Individual	90-85	<b>W12886P +</b> Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head .090" deep x 2.520" dia. w/1 valve relief; When depleted use W12886CP
4	Cast Piston - Individual	90-85	<b>W12886CP</b> Std Only	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief
4	Cast Piston - Individual	84-81	<b>W12326P</b> Std-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 5.00mm deep w/dome
1	Cast Piston Set w/Prem. Rings	90-85	<b>4K12886CP.50MM</b> .50-.75MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief
1	Cast Piston Set w/Prem. Rings	90-85	<b>4K12886P.50MM +</b> .50-.75MM	Cast; 2-1.50mm, 1-4.00mm Ring Groove, 34.36mm CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief; When depleted use 4K12886CP .50MM
1	Cast Piston Set w/Prem. Rings	84-81	<b>4K12326P</b> Std-.50-.75-1.00MM	Eng. Code "22R"; Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 39.0mm plus 6.50mm dome" CD, 22.0mm Pin Dia., Recessed Head 2.28mm deep x 34.36mm dia. w/1 valve relief
1	Pin Bushing Set	90-81	<b>4-3964Y</b>	
<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	90-85	<b>E-510K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	90-85	<b>E-510KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Premium Set	84-81	<b>E-416KC</b> Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
1	Standard Set	90-85	<b>E-510X</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
1	Standard Set	84-81	<b>E-416X</b> Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-85	<b>WE-510KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM
4	Premium Single Cylinder Set	90-85	<b>WE-510K1.00MM</b> 1.00MM	2-1.50MM, 1-4.00MM

**VALVE TRAIN**

**VALVE TRAIN**

**BLOCK**

**BLOCK**

(continued on next page)

# Toyota Truck (Includes Minivans and SUV's)

**8** 2.4L 2366cc SOHC L4 (8 Valve), 92mm Bore 1990-81  
 (cont.) L/D Truck Eng. Codes "22R" 1981-90, "22RE" 1989-95, "22REC" 1983-88

QTY	RINGS (cont.)	YEARS	PART NO.		DESCRIPTION
			WE-416KC	Std.-.50-.75-1.00MM	
4	Premium Single Cylinder Set	84-81	WE-416KC	Std.-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
4	Standard Single Cylinder Set	84-81	WE-416X	Std.-.50-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.		DESCRIPTION
1	Main Set	90-83	7148M	Std.-.25-.50-.75MM	
1	Main Set	82	7148M	Std.-.25-.50-.75MM	From 3/82
1	Main Set	82	7142M	Std.-.25-.50-.75MM	To 2/82
1	Main Set	81	7142M	Std.-.25-.50-.75MM	
1	Thrust Washer Set	90-85	67333AF	Std Only	Position 3
1	Thrust Washer Set	84	67333AF	Std Only	Position 3; From 4/84
1	Thrust Washer Set	84	67332AF	Std.-.25MM	Position 3; To 3/84
1	Thrust Washer Set	83-81	67332AF	Std.-.25MM	Position 3
1	Rod Set	90-81	4-3960CPA	Std.-.25-.50-.75-100MM	
1	Cam Set	90-81	1859M	Std Only	
QTY	OIL PUMP	YEARS	PART NO.		DESCRIPTION
1	Oil Pump	90-85	224-41940		Eng. Codes "22R", "22RE" & "22REC"
1	Oil Pump	84-83	224-41902		Eng. Codes "22R" & "22REC"
1	Oil Pump	82-81	224-41902		Eng. Code "22R"
1	Screen Assy.	90-89	224-15054		Eng. Codes "22R" & "22RE"; 2WD Pickup
1	Screen Assy.	90-88	224-14235		Eng. Code "22RE"
1	Screen Assy.	88-83	224-15054		Eng. Codes "22R" & "22REC"; 2WD Pickup
1	Screen Assy.	87-83	224-14235		Eng. Code "22R"; 4WD
1	Screen Assy.	82-81	224-15054		Eng. Code "22R"; 2WD Pickup
QTY	GASKETS	YEARS	PART NO.		DESCRIPTION
1	Kit Gasket Set	90-85	260-1503		PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	84-83	260-1188		PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
1	Kit Gasket Set	82-81	260-1091		PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.
QTY	FREEZE PLUGS	YEARS	PART NO.		DESCRIPTION
1	Brass Block Plug Kit	90-81	381-8042		
RE-RING KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
90-85	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-6182	205-1182
		Re-ring w/Mains		205-6182M	205-1182M
84-83	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-854	205-354
		Re-ring w/Mains		205-854M	205-354M
82-81	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring		205-830	205-330
OVERHAUL KIT					
YEARS	DESCRIPTION			PREMIUM KIT NO.	ECONOMY KIT NO.
90-85	Eng. Codes "22R", "22RE" & "22REC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; If the cyl. head or eng. block has been resurfaced use shim	Master		MKP-6182A	MKP-1182A
		Master w/o Pistons		MK-6182A	MK-1182A
90-85	Eng. Codes "22R", "22RE" & "22REC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block w/Pump & Freeze Plugs		BKP-6328	----
90-85	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Block		BK-6328	----
84	Eng. Codes "22R" & "22REC"; To 3/84; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		MKP-854A	MKP-354A
		Master w/o Pistons		MK-854A	MK-354A
83	Eng. Code "22R"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		MKP-854A	MKP-354A
83	Eng. Codes "22R" & "22REC"; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master w/o Pistons		MK-854A	MK-354A
82	Eng. Code "22R"; From 3/82; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Master		MKP-830C	MKP-330C
		Master w/o Pistons		MK-830C	MK-330C



# Toyota Truck (Includes Minivans and SUV's)

2.4L 2366cc SOHC Turbo L4 (8 Valve), 92mm Bore 1989-85 **9**  
L/D Truck Eng. Code "22RTEC" 1985-89

	QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
VALVE TRAIN	1	Complete Set	89-85	<b>KT-1028S</b>	Incl. sprockets, single rlr. chain, tensioner, guides; If the cyl. head or eng. block has been resurfaced use shim Single rlr.; 96 Links	
	1	Timing Chain	89-85	<b>222-S96T2</b>		
	1	Timing Chain Tensioner	89-85	<b>222-100CT</b>		
	1	Timing Chain Guide	89-85	<b>222-133GP</b>	L.H.	
	1	Timing Chain Guide	89-85	<b>222-132GP</b>	R.H.	
	1	Crank Sprocket	89-85	<b>223-593</b>	18 Teeth	
	1	Cam Sprocket	89-85	<b>223-600</b>	36 Teeth	
	<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Camshaft	88-86	<b>CS-719</b>	From 1/85	
	1	Camshaft	85	<b>CS-719</b>		
1	Prelube	88-85	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
<b>QTY</b>	<b>ROCKER PARTS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Arm	88-85	<b>R-890</b>			
1	Rocker Shaft	88-85	<b>RS-628</b>	Exh.		
1	Rocker Shaft	88-85	<b>RS-629</b>	Int.		
1	Rocker Shaft	88-85	<b>RS-704</b>	Int.		
<b>QTY</b>	<b>VALVE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Intake	89-85	<b>V-2264</b> Std Only	1 groove; Nitrided stem; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.		
4	Intake, Bulk	89-85	<b>V-2264B</b> Std Only	1 groove; Nitrided stem; Carton of 25; 1.7700" Head Dia., .3140" Stem Dia., 4.4650" O.A.L.		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Guide	89-85	<b>VG-706</b>	Exh. & Int.; .3160" ID, 2.2600" O.A.L.		
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Spring	89-85	<b>VS-1445</b>	1.9730" Free Height		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
8	Valve Stem Seal	89-87	<b>ST-2099</b>	Positive type; Rubber		
8	Valve Stem Seal	89-85	<b>ST-2037</b>	Positive type; Rubber		
8	Valve Stem Seal	86	<b>ST-2099</b>	From 5/86; Positive type; Rubber		
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Exh.	89-85	<b>245-1562-67</b> Std Only	1.5695" OD, 1.2550" ID, .3190" Depth		
4	Int.	89-85	<b>245-1937-52</b> Std Only	1.9445" OD, 1.5730" ID, .3790" Depth		
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
16	Keeper	89-85	<b>VK-210</b>	2 groove		
BLOCK	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	88-85	<b>E-510K</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	1	Premium Set	88-85	<b>E-510KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	88-85	<b>WE-510KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	4	Premium Single Cylinder Set	88-85	<b>WE-510K1.00MM</b> 1.00MM	2-1.50MM, 1-4.00MM	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	89-85	<b>7148M</b> Std-.25-.50-.75MM		
	1	Thrust Washer Set	89-85	<b>67333AF</b> Std Only	Position 3	
	1	Rod Set	89-85	<b>4-3960CPA</b> Std-.25-.50-.75-100MM		
	<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	88-85	<b>224-41940</b>			
1	Screen Assy.	88-86	<b>224-14235</b>			
1	Screen Assy.	85	<b>224-14235</b>	From 1/85		
<b>QTY</b>	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	89-85	<b>260-1503</b>	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	89-85	<b>381-8042</b>			
KITS	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	88-85	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring Re-ring w/Mains		<b>205-6182</b>	----
					<b>205-6182M</b>	----
<b>OVERHAUL KIT</b>					<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
88-86	Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; If the cyl. head or eng. block has been resurfaced use shim	Master w/o Pistons			<b>MK-6182A</b>	----

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# Toyota Truck (Includes Minivans and SUV's)

<b>9 2.4L 2366cc SOHC Turbo L4 (8 Valve), 92mm Bore 1989-85</b> (cont.) L/D Truck Eng. Code "22RTEC" 1985-89				
OVERHAUL KIT (cont.)			PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS	DESCRIPTION		MK-6182A	----
85	From 1/85; Exh. manifold gskt. not incl.; Turbo mtg. gskts. not incl.; PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.; If the cyl. head or eng. block has been resurfaced use shim	Master w/o Pistons		
<b>10 2.4L 2446cc SOHC Diesel L4 (8 Valve), 92mm Bore 1987-84</b> L/D Truck Eng. Code "2L" 1984-87				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Belt Idler	87	222-320BT	To 8/87
1	Belt Idler	86-85	222-320BT	
1	Belt Idler	84	222-320BT	From 4/84
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	87-84	VG-929	.3372" ID, 2.4000" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	87-84	VS-786	1.8250" Free Height
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
4	Exh.	87-84	245-1437-67 Std Only	1.270" ID top taper; 1.4445" OD, 1.1800" ID, .2550" Depth
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing Set	87-84	4-67304Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	87-84	WE-765KC Std Only	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-84	6620MA Std-.25-.50MM	A-Series aluminum bearings; Full grooved
1	Main Set	87-84	6621MA Std-.25-.50MM	A-Series aluminum bearings; Partial grooved
1	Thrust Washer Set	87-84	3921AF Std Only	Position 3
1	Rod Set	87-84	4-3920CP Std-.25-.50-.75MM	
1	Cam Set	87-84	1774M Std Only	
<b>11 2.4L 2446cc SOHC Turbo-Diesel L4 (8 Valve), 92mm Bore 1987-84</b> L/D Truck Eng. Code "2LT" 1984-87				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Belt Idler	87	222-320BT	To 8/87
1	Belt Idler	86-85	222-320BT	
1	Belt Idler	84	222-320BT	From 4/84
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	87-84	VG-929	.3372" ID, 2.4000" O.A.L.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	87-84	WE-765KC Std Only	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	87-84	6621MA Std-.25-.50MM	A-Series aluminum bearings; Partial grooved
1	Main Set	85-84	6620MA Std-.25-.50MM	A-Series aluminum bearings; Full grooved
1	Thrust Washer Set	87-84	3921AF Std Only	Position 3
1	Rod Set	87-84	4-3930RA Std-.25-.50MM	
1	Cam Set	87-84	1774M Std Only	
<b>12 3.0L 2958cc SOHC V6 (12 Valve), 87.5mm Bore 1990-88</b> L/D Truck Eng. Code "3VZE" 1988-95				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-88	222-154	
1	Belt Idler	90-88	222-209BT	L.H.
1	Belt Idler	90-88	222-298BT	Upper
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-1525	L.H.
1	Camshaft	90-88	CS-1526	R.H.
12	Lifter	90-88	AT-6010 Std Only	Mech.
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-1525	Mech.; Incl. (12) AT-6010, (1) CS-1525, (1) CS-1526, (1) 55-403B
1	Cam/Lifter/Timing Kit	90-88	KCT-1525	Mech.; Incl. (12) AT-6010, (1) CS-1525, (1) CS-1526, (1) 222-154, (1) 55-403B
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
12	Exhaust	90-88	V-2586 Std Only	Nitrided stem; 1.3780" Head Dia., .3140" Stem Dia., 4.1030" O.A.L.
12	Intake	90-88	V-2587X Std Only	1.6540" Head Dia., .3140" Stem Dia., 4.1010" O.A.L.

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## Toyota Truck (Includes Minivans and SUV's)

3.0L 2958cc SOHC V6 (12 Valve), 87.5mm Bore 1990-88 <b>12</b>						
L/D Truck Eng. Code "3VZE" 1988-95 (cont.)						
<b>B L O C K</b>	QTY	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	12	Guide	90-88	<b>VG-1416T</b>	Exh. & Int.; .3160" ID, 1.8200" O.A.L.	
	QTY	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	24	Spring	90-88	<b>VS-1414</b>	1.8640" Free Height	
	QTY	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
6	Valve Stem Seal	90-88	<b>ST-2074</b>	Exh.; Positive type; Rubber		
6	Valve Stem Seal	90-88	<b>ST-2115</b>	Int.; Positive type; Viton®		
QTY	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Exh.	90-88	<b>245-1562-72</b> Std Only	1.5695" OD, 1.1800" ID, .3160" Depth		
QTY	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
24	Keeper	90-88	<b>VK-241</b>			
<b>B L O C K</b>	QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Cast Piston Set	90-88	<b>6-13519P</b> Std-.50-1.00MM	Cast	
	QTY	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Premium Set	90-88	<b>E-562KC</b> Std-.50-.75-1.00MM	2-1.50MM, 1-4.00MM	
	6	Premium Single Cylinder Set	90-88	<b>WE-562KC</b> Std-.50-.75MM	2-1.50MM, 1-4.00MM	
	QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
	1	Main Set	90-88	<b>7261M</b> Std-.25-.50-.75MM		
1	Thrust Washer Set	90-88	<b>3956BF</b> Std Only	Position 2		
1	Rod Set	90-88	<b>6-4385RA</b> Std-.25-.50-.75MM			
QTY	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Oil Pump	90-88	<b>224-41980</b>			
QTY	<b>GASKETS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Kit Gasket Set	90-88	<b>260-1714</b>	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.		
QTY	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Brass Block Plug Kit	90-88	<b>381-8097</b>			
<b>K I T S</b>	<b>RE-RING KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	90-88	PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.	Re-ring	Re-ring w/Mains	<b>205-6365</b>	----
				<b>205-6365M</b>	----	
<b>K I T S</b>	<b>OVERHAUL KIT</b>				<b>PREMIUM KIT NO.</b>	<b>ECONOMY KIT NO.</b>
	<b>YEARS</b>	<b>DESCRIPTION</b>				
	90-88	Freeze plugs not incl.; PermaDry® molded rubber valve cover gskts. incl.; Premium valve stem seals incl.; Incl. Mech. lifters	Master w/o Pistons		<b>MK-6221C</b>	----
3.2L 3168cc OHV Diesel L4 (8 Valve), 98mm Bore 1980-78 <b>13</b>						
L/D Truck Eng. Code "2B" 1978-80						
QTY	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
4	Cast Piston	80-78	<b>12393P.75MM</b> .75MM	Canada; Cast; 2-2.50mm, 1-4.50mm Ring Groove, 52.3mm CD, 29.0mm Pin Dia., Recessed Head 2.80mm deep		
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Rod Set	80-78	<b>4-1060CP</b> Std-.50-1.00MM			
1	Cam Set	80-78	<b>1758M</b> Std Only			
3.4L 3431cc OHV Diesel L4 (8 Valve), 102mm Bore 1987-81 <b>14</b>						
L/D Truck Eng. Code "3B" 1981-87						
QTY	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Main Set	87-85	<b>7105M</b> Std Only			
1	Main Set	84	<b>7105M</b> Std Only	From 7/84		
1	Cam Set	84	<b>1758M</b> Std Only	To 6/84		
1	Cam Set	83-81	<b>1758M</b> Std Only			
3.9L 3878cc OHV L6 (12 Valve), 90mm Bore 1974-60 <b>15</b>						
L/D Truck Eng. Code "F" 1967-74						
QTY	<b>CAMSHAFT/LIFTER</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Camshaft	74-69	<b>CS-803</b>			
12	Lifter	74-64	<b>AT-6001</b> Std Only	Mech.		
1	Prelube	74-69	<b>55-400</b>	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
QTY	<b>CAM KIT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
1	Cam/Lifter Kit	74-69	<b>KC-803</b>	Mech.; Incl. (12) AT-6001, (1) CS-803, (1) 55-403B		
QTY	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>		
12	Push Rod	74-60	<b>RP-3270</b>	10.9300" O.A.L.		

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# Toyota Truck (Includes Minivans and SUV's)

## 15 3.9L 3878cc OHV L6 (12 Valve), 90mm Bore 1974-60

(cont.) L/D Truck Eng. Code "F" 1967-74

QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Arm	74-60	R-967	Exh.
1	Rocker Shaft	74-73	RS-662	Int.; From 9/73
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	74-69	V-2257 Std Only	Chrome plated stem; 1.4780" Head Dia., .3142" Stem Dia., 4.9220" O.A.L.
6	Intake	74-69	V-2258 Std Only	Chrome plated stem; 1.8110" Head Dia., .3142" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	74-69	VG-675	Exh.; .3159" ID, 2.3230" O.A.L.
6	Guide	74-69	VG-676	Int.; .3153" ID, 2.1260" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	74-69	VS-789	2.0150" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
24	Keeper	74-70	VK-219	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
6	Cast Piston	74-69	12111P Std-.50-.75-1.00MM	Use w/E-389X ring set; Cast; 2-3.00mm, 2-4.00mm Ring Groove, 47.5mm CD, 25.2mm Pin Dia., Flat Head
6	Cast Piston - Individual	74-69	W12111P Std-.50-.75-1.00MM	Use w/WE-389X ring set; Cast; 2-3.00mm, 2-4.00mm Ring Groove, 47.5mm CD, 25.2mm Pin Dia., Flat Head
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	74-73	7145M Std-.25-.50-.75MM	From 9/73
1	Rod Set	74-69	6-67035P Std-.25-.50-.75-1.00MM	
1	Cam Set	74-69	1735M Std Only	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	74-60	381-8043	

## 16 4.0L 3955cc OHV L6 (12 Valve), 94mm Bore 1990-88

L/D Truck Eng. Code "3FE" 1988-92

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	90-88	CS-803	
12	Lifter	90-88	AT-6002 Std Only	Mech.
1	Prelube	90-88	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
QTY	CAM KIT	YEARS	PART NO.	DESCRIPTION
1	Cam/Lifter Kit	90-88	KC-802	Mech.; Incl. (12) AT-6002, (1) CS-803, (1) 55-403B
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
6	Arm	90-88	R-967	Exh.
6	Arm	90-88	R-968	Int.
1	Rocker Shaft	90-88	RS-664	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
6	Exhaust	90-88	V-2506X Std Only	Chrome plated stem; 1.4750" Head Dia., .3130" Stem Dia., 5.0430" O.A.L.
6	Intake	90-88	V-2258 Std Only	Chrome plated stem; 1.8110" Head Dia., .3142" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
6	Guide	90-88	VG-675	Exh.; .3159" ID, 2.3230" O.A.L.
6	Guide	90-88	VG-676	Int.; .3153" ID, 2.1260" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
12	Spring	90-88	VS-789	2.0150" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
12	Valve Stem Seal	90-88	ST-2071	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
12	Keeper	90-88	VK-210	Exh.; 2 groove
12	Keeper	90-88	VK-219	Int.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	7038M Std-.25-.50-.75MM	
1	Thrust Washer Set	90-88	1503AF Std Only	Position 3
1	Rod Set	90-88	6-1500CP Std-.25-.50-.75MM	
1	Cam Set	90-88	1783M Std Only	

## 17 4.2L 4230cc OHV L6 (12 Valve), 94mm Bore 1987-75

L/D Truck Eng. Code "2F" 1975-87

QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
1	Camshaft	87-75	CS-803	
12	Lifter	87-75	AT-6001 Std Only	Mech.

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# Toyota Truck (Includes Minivans and SUV's)

4.2L 4230cc OHV L6 (12 Valve), 94mm Bore 1987-75 **17**

L/D Truck Eng. Code "2F" 1975-87 (cont.)

	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
VALVE TRAIN	QTY 1 Prelube	87-75	55-400	4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	QTY 1 Cam/Lifter Kit	87-75	KC-803	Mech.; Incl. (12) AT-6001, (1) CS-803, (1) 55-403B
	QTY 12 Push Rod	87-75	RP-3270	10.9300" O.A.L.
	QTY 6 Arm	87-81	R-967	Cyls. 1-3-5
	6 Arm	87-81	R-968	Cyls. 2-4-6
	1 Rocker Shaft	87-81	RS-664	
	1 Rocker Shaft	80-75	RS-662	
	QTY 6 Exhaust	87-75	V-2257 Std Only	Chrome plated stem; 1.4780" Head Dia., .3142" Stem Dia., 4.9220" O.A.L.
	6 Intake	87-75	V-2258 Std Only	Chrome plated stem; 1.8110" Head Dia., .3142" Stem Dia., 4.9170" O.A.L.
	QTY 6 Guide	87-75	VG-675	Exh.; .3159" ID, 2.3230" O.A.L.
	6 Guide	87-75	VG-676	Int.; .3153" ID, 2.1260" O.A.L.
	QTY 12 Spring	87-75	VS-789	2.0150" Free Height
QTY 12 Valve Stem Seal	87-81	ST-2071	Positive type; Rubber	
QTY 24 Keeper	87-75	VK-219		
BLOCK	QTY 6 Cast Piston	87-75	12217P.50MM .50-.75-1.00MM	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 47.6mm plus 6.50mm dome" CD, 25.2mm Pin Dia., Domed Head 6.50mm high x 75.00mm dia. - 8.3:1 C.R.
	6 Cast Piston	87-75	12139P Std-.50-.75-1.00MM	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 47.9mm CD, 25.2mm Pin Dia., Flat Head w/0.30mm step rim
	6 Cast Piston - Individual	87-75	W12217P.50MM .50-.75-1.00MM	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 47.6mm plus 6.50mm dome" CD, 25.2mm Pin Dia., Domed Head 6.50mm high x 75.00mm dia. - 8.3:1 C.R.
	6 Cast Piston - Individual	87-75	W12139P Std-.50-.75-1.00MM	Cast; 1-2.00mm, 1-2.50mm, 1-4.00mm Ring Groove, 47.9mm CD, 25.2mm Pin Dia., Flat Head w/0.30mm step rim
	QTY 1 Premium Set	87-75	E-393KC Std-.50-.75-1.00-1.50MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	1 Standard Set	87-75	E-393X Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	6 Premium Single Cylinder Set	87-75	WE-393KC Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	6 Standard Single Cylinder Set	87-75	WE-393X Std-.50-.75-1.00MM	1-2.00MM, 1-2.50MM, 1-4.00MM
	QTY 1 Main Set	87-86	7038M Std-.25-.50-.75MM	
	1 Main Set	85-84	7038M Std-.25-.50-.75MM	From 10/84
	1 Main Set	84	7145M Std-.25-.50-.75MM	To 9/84
	1 Main Set	83-75	7145M Std-.25-.50-.75MM	
	1 Thrust Washer Set	87-86	1503AF Std Only	Position 3
	1 Thrust Washer Set	85-84	1503AF Std Only	Position 3; From 10/84
	1 Rod Set	87-75	6-67035P Std-.25-.50-.75-1.00MM	
1 Cam Set	87-86	1783M Std Only		
1 Cam Set	85-84	1783M Std Only	From 10/84	
1 Cam Set	84	1735M Std Only	To 9/84	
1 Cam Set	83-75	1735M Std Only		
QTY 1 Kit Gasket Set	80-75	260-1294	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	
KITS	RE-RING KIT			
	YEARS	DESCRIPTION		
80-76	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	PREMIUM KIT NO. 205-6066	ECONOMY KIT NO. 205-1066
75	PermaDry® molded rubber valve cover gskt. incl.; Premium valve stem seals incl.	Re-ring	205-6066	205-1066

# Triumph - See Standard Motors

## Volvo

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Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
B18A.....	1.8L 1780cc OHV L4 84mm Bore (8 Valve) .....	1	B23F.....	2.3L 2316cc SOHC L4 96mm Bore (8 Valve) .....	5
B18B.....	1.8L 1780cc OHV L4 84mm Bore (8 Valve) .....	1	B23FT.....	2.3L 2316cc SOHC Turbo L4 96mm Bore (8 Valve) .....	7
B18D.....	1.8L 1780cc OHV L4 84mm Bore (8 Valve) .....	1	B230F.....	2.3L 2316cc SOHC L4 96mm Bore (8 Valve) .....	5
B20A.....	2.0L 1986cc OHV L4 89mm Bore (8 Valve) .....	2	B230FD.....	2.3L 2316cc SOHC L4 96mm Bore (8 Valve) .....	5
B20B.....	2.0L 1986cc OHV L4 89mm Bore (8 Valve) .....	2	B230FS.....	2.3L 2316cc SOHC L4 96mm Bore (8 Valve) .....	5
B20E.....	2.0L 1986cc OHV L4 89mm Bore (8 Valve) .....	2	B230FT.....	2.3L 2316cc SOHC Turbo L4 96mm Bore (8 Valve) .....	7
B20F.....	2.0L 1986cc OHV L4 89mm Bore (8 Valve) .....	2	B234F.....	2.3L 2316cc DOHC L4 96mm Bore (16 Valve) .....	6
B21E.....	2.1L 2127cc SOHC L4 92mm Bore (8 Valve) .....	3	B234FT.....	2.3L 2316cc SOHC Turbo L4 96mm Bore (8 Valve) .....	7
B21F.....	2.1L 2127cc SOHC L4 92mm Bore (8 Valve) .....	3	B234T.....	2.3L 2316cc SOHC Turbo L4 96mm Bore (8 Valve) .....	7
B21FT.....	2.1L 2127cc SOHC Turbo L4 92mm Bore (8 Valve) .....	4	D24.....	2.4L 2383cc SOHC Diesel L6 76.5mm Bore (12 Valve) (VW Eng.) .....	8
B23E.....	2.3L 2316cc SOHC L4 96mm Bore (8 Valve) .....	5	D24T.....	2.4L 2383cc SOHC Turbo-Diesel L6 76.5mm Bore (12 Valve) (VW Eng.) .....	9

### 1 1.8L 1780cc OHV L4 (8 Valve), 84mm Bore 1968-61

Eng. Codes "B18A" 1961-68, "B18B" 1961-68, "B18D" 1961-68

QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Spring Insert	68-62	259-101B	.030"; Carton of 100
8	Spring Insert	68-62	259-101A	.060"; Carton of 100
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	68-61	6111M Std Only	

### 2 2.0L 1986cc OHV L4 (8 Valve), 89mm Bore 1975-69

Eng. Codes "B20A" 1969-74, "B20B" 1969-74, "B20E" 1970-75, "B20F" 1972-75

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	75-69	VG-780	Int.; .3150" ID, 2.0470" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	75-69	VS-855	1.8100" Free Height
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Spring Insert	75-69	259-101B	.030"; Carton of 100
8	Spring Insert	75-69	259-101A	.060"; Carton of 100
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	75-69	6111M Std Only	

### 3 2.1L 2127cc SOHC L4 (8 Valve), 92mm Bore 1984-76

Eng. Codes "B21E" 1976-84, "B21F" 1976-84

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	84-76	222-32	123 Teeth; Square tooth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	82-76	VG-781	Exh.; .3150" ID, 2.0470" O.A.L.
4	Guide	82-76	VG-780	Int.; .3150" ID, 2.0470" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	82-76	VK-204	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	84-76	E-497KC Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
1	Premium Set	78-76	E-392KC Std Only	2-2.00MM, 1-4.00MM

(continued on next page)

<b>2.1L 2127cc SOHC L4 (8 Valve), 92mm Bore 1984-76 3</b>				
Eng. Codes "B21E" 1976-84, "B21F" 1976-84 (cont.)				
QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
1	Standard Set	78-76	<b>E-392X</b> Std Only	2-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-76	<b>6111M</b> Std Only	
1	Rod Set	84-76	<b>4-66620CP</b> Std Only	
<b>2.1L 2127cc SOHC Turbo L4 (8 Valve), 92mm Bore 1985-81 4</b>				
Eng. Code "B21FT" 1981-85				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85-81	<b>222-32</b>	123 Teeth; Square tooth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	85-81	<b>VG-781</b>	Exh.; .3150" ID, 2.0470" O.A.L.
4	Guide	85-81	<b>VG-780</b>	Int.; .3150" ID, 2.0470" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	85-81	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-81	<b>E-497KC</b> Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	85-81	<b>6111M</b> Std Only	
1	Rod Set	85-81	<b>4-66620CP</b> Std Only	
<b>2.3L 2316cc SOHC L4 (8 Valve), 96mm Bore 1990-81 5</b>				
Eng. Codes "B23E" 1981-84, "B23F" 1981-84, "B230F" 1985-95, "B230FD" 1993-95, "B230FS" 1993-95				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-83	<b>222-32</b>	123 Teeth; Square tooth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-82	<b>VG-781</b>	Exh.; .3150" ID, 2.0470" O.A.L.
4	Guide	90-82	<b>VG-780</b>	Int.; .3150" ID, 2.0470" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-82	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-82	<b>E-498KC</b> Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	<b>7247M</b> Std-.25MM	
1	Main Set	87-85	<b>7349M</b> Std Only	Thrust washer set not incl.
1	Main Set	84-81	<b>6111M</b> Std Only	
1	Thrust Washer Set	87-85	<b>4338F</b> Std Only	
1	Rod Set	90-85	<b>4-4335CP</b> Std-.25MM	
1	Rod Set	84-81	<b>4-66620CP</b> Std Only	
<b>2.3L 2316cc DOHC L4 (16 Valve), 96mm Bore 1990-89 6</b>				
Eng. Code "B234F" 1989-91				
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	<b>7247M</b> Std-.25MM	
1	Rod Set	90-89	<b>4-4335CP</b> Std-.25MM	
<b>2.3L 2316cc SOHC Turbo L4 (8 Valve), 96mm Bore 1990-84 7</b>				
Eng. Codes "B23FT" 1984, "B230FT" 1985-95, "B234FT" 1989-95, "B234T" 1991-95				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-84	<b>222-32</b>	123 Teeth; Square tooth
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	90-84	<b>VG-781</b>	Exh.; .3150" ID, 2.0470" O.A.L.
4	Guide	90-84	<b>VG-780</b>	Int.; .3150" ID, 2.0470" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-84	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	85-84	<b>E-498KC</b> Std Only	1-1.75MM, 1-2.00MM, 1-4.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-88	<b>7247M</b> Std-.25MM	
1	Main Set	87-84	<b>7349M</b> Std Only	Thrust washer set not incl.
1	Thrust Washer Set	87-84	<b>4338F</b> Std Only	
1	Rod Set	90-84	<b>4-4335CP</b> Std-.25MM	

# Volvo

<b>8 2.4L 2383cc SOHC Diesel L6 (12 Valve), 76.5mm Bore (VW Eng.) 1985-80</b> Eng. Code "D24" 1980-85				
<b>QTY</b> 12	<b>VALVE GUIDE</b> Guide	<b>YEARS</b> 85-80	<b>PART NO.</b> VG-705	<b>DESCRIPTION</b> Bronze; .3150" ID, 1.4400" O.A.L.
<b>QTY</b> 6	<b>VALVE SEAT</b> Exh.	<b>YEARS</b> 85-80	<b>PART NO.</b> 245-1312-62 Std Only	<b>DESCRIPTION</b> 1.120" ID top taper; Use w/1.220" head dia.; 1.3195" OD, 1.0650" ID, .2850" Depth
	Int.	85-80	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
<b>QTY</b> 24	<b>VALVE, MISC</b> Keeper	<b>YEARS</b> 85-80	<b>PART NO.</b> VK-204	<b>DESCRIPTION</b> 3 groove; w/.3125 Stem Dia.
<b>QTY</b> 1	<b>RINGS</b> Premium Set	<b>YEARS</b> 85-80	<b>PART NO.</b> E-601KC Std Only	<b>DESCRIPTION</b> 1-1.75MM, 1-2.00MM, 1-3.00MM

<b>9 2.4L 2383cc SOHC Turbo-Diesel L6 (12 Valve), 76.5mm Bore (VW Eng.) 1986-83</b> Eng. Code "D24T" 1983-86				
<b>QTY</b> 12	<b>VALVE GUIDE</b> Guide	<b>YEARS</b> 86-83	<b>PART NO.</b> VG-705	<b>DESCRIPTION</b> Bronze; .3150" ID, 1.4400" O.A.L.
<b>QTY</b> 6	<b>VALVE SEAT</b> Exh.	<b>YEARS</b> 86-83	<b>PART NO.</b> 245-1312-62 Std Only	<b>DESCRIPTION</b> 1.120" ID top taper; Use w/1.220" head dia.; 1.3195" OD, 1.0650" ID, .2850" Depth
	Int.	86-83	245-1500-62 Std Only	1.304" ID top taper; 1.5070" OD, 1.2200" ID, .3100" Depth
<b>QTY</b> 24	<b>VALVE, MISC</b> Keeper	<b>YEARS</b> 86-83	<b>PART NO.</b> VK-204	<b>DESCRIPTION</b> 3 groove; w/.3125 Stem Dia.
<b>QTY</b> 1	<b>RINGS</b> Premium Set	<b>YEARS</b> 86-83	<b>PART NO.</b> E-601KC Std Only	<b>DESCRIPTION</b> 1-1.75MM, 1-2.00MM, 1-3.00MM

# Volvo Marine

<b>Engine Finding Index</b>					
<b>Engine</b>	<b>For Year</b>	<b>Line No.</b>	<b>Engine</b>	<b>For Year</b>	<b>Line No.</b>
5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....		1	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....		2



Model Index					
Model	Engine Description	Line No.	Model	Engine Description	Line No.
AQ200 (200 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	5.7 Gi (250 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
AQ211 (210 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	5.7 GL (215 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
AQ225 (225 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	500 DP (187 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ231 (229 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	500 DP (190 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ260 (260 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	501 (204 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ271 (270 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	501 (205 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ271 (275 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	501 DP (204 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ290 (290 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	501 DP (205 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1
AQ311 (307 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	570 (245 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
BB225 (225 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	570 DP (245 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
BB231 (229 HP)...Marine Applications.....	5.0L 5012cc (305) OHV V8 3.736" Bore (Chevrolet) (GMC Eng.).....	1	571 (273 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
BB260 (260 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2	572 (225 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2
BB261 (260 HP)...Marine Applications.....	5.7L 5736cc (350) OHV V8 4" Bore (Chevrolet) (GMC Eng.).....	2			

5.0L 5012cc (305) OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.) <b>1</b>					
Marine Applications Models AQ200 (200 HP); AQ211 (210 HP); AQ225 (225 HP); AQ231 (229 HP); BB225 (225 HP); BB231 (229 HP); 500 DP (187 HP); 500 DP (190 HP); 501, 501 DP (204 HP); 501, 501 DP (205 HP)					
VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set		<b>KT3-499S</b>	w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
	1	Timing Chain		<b>222-499</b>	Use w/.405" tooth width sprocket; 46 Links
	1	Crank Sprocket		<b>223-391</b>	Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Cam Sprocket		<b>223-390</b>	.405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket		<b>223-390N</b>	Nylon; .405" tooth width sprocket; 36 Teeth
VALVE TRAIN	QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
	16	Lifter		<b>HT-817</b> Std Only	Hyd.
	16	Lifter, Bulk		<b>HT-817B</b> Std Only	Hyd.; Carton of 128
VALVE TRAIN	QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
	16	Push Rod		<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.
	16	Push Rod		<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.
	16	Push Rod		<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.
	16	Push Rod		<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.
	16	Push Rod		<b>RP-3093</b>	7.7940" O.A.L.
	16	Push Rod, Bulk		<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.
	16	Push Rod, Bulk		<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.
	16	Push Rod, Bulk		<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.
VALVE TRAIN	QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION
	16	Arm Assy.		<b>R-826</b>	Incl. arm, ball & nut
	16	Arm Assy., Bulk		<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64
	16	Arm		<b>R-826A</b>	
	16	Stud		<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"
	16	Stud		<b>MR-1949</b>	3/8" x 24 x 2.495"

(continued on next page)

# Volvo Marine

**1 5.0L 5012cc (305) OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.)**  
 (cont.) **Marine Applications** Models AQ200 (200 HP); AQ211 (210 HP); AQ225 (225 HP); AQ231 (229 HP); BB225 (225 HP); BB231 (229 HP); 500 DP (187 HP); 500 DP (190 HP); 501, 501 DP (204 HP); 501, 501 DP (205 HP)

QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust		V-1888X Std-15	AQ200D & AQ225D Engs.; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.
8	Intake		V-1927 Std-15	Chrome plated stem; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
8	Intake, Bulk		V-1927B Std-15	Chrome plated stem; Carton of 25; 1.7200" Head Dia., .3413" Stem Dia., 4.9170" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-5005	Exh.; AQ200D & AQ225D Engs.; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5046	Exh.; BB225A & BB225AV Engs.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk		VG-5005B	Exh.; AQ200D & AQ225D Engs.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring		VS-677	Incl. damper; 2.0300" Free Height
16	Spring, Bulk		VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1903	Use w/repair guide; w/.371" stem dia.; Positive type; Rubber
8	Valve Stem Seal		ST-2001	Exh.; Use w/O.E. guide w/.343" stem dia.; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
8	Valve Stem Seal Bulk		ST-2001BC	Exh.; Use w/O.E. guide w/.371" valve stem; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115	1 groove; Square cut key groove
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		RC-157S	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		454NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
8	Cast Piston - Individual		W454NP Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Prem. Rings		8K454NP30 30-40-60	Cast; 1-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
1	Cast Piston Set w/Econ. Rings		8X454NP20 20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Recessed Head .110" deep x 3.115" dia. - 8.5:1 C.R.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		E-356K Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		E-356KC Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		E-356X Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		WE-356K Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		WE-356X Std-20-30-40-60	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		4663M Std-1-2-10-20-30-40-60	
1	Main Set		6688M10 10-20-30	.020" O/S length flange brg.
1	Main Set		4663MA Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set		7329MA10 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set		7274MA10X20 10X20	<b>A-Series aluminum bearings</b> ; w/.020" O/S OD
1	Rod Set		8-2555A Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		8-2555A10X2 10X2-20X2-30X2-40X2	<b>A-Series aluminum bearings</b> ; Use in .002" O/S Rod Bore
1	Rod Set		8-2555CP10X2 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set		8-2555CP Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy

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# Volvo Marine

**5.0L 5012cc (305) OHV V8 (Chevrolet), 3.736" Bore (GMC Eng.) 1**  
**Marine Applications** Models AQ200 (200 HP); AQ211 (210 HP); AQ225 (225 HP); AQ231 (229 HP); (cont.)  
 BB225 (225 HP); BB231 (229 HP); 500 DP (187 HP); 500 DP (190 HP); 501, 501 DP (204 HP); 501,  
 501 DP (205 HP)

BLOCK	QTY	ENGINE BEARINGS (cont.)	YEARS	PART NO.	DESCRIPTION
	1	Rod Set		<b>8-2555CA60</b> 60	Unplated & resizeable
	8	Rod Pair		<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
	8	Rod Pair		<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
	8	Rod Pair		<b>2555CA60</b> 60	Unplated & resizeable
	1	Cam Set		<b>1235M</b> Std-1-10	Babbitt material; Full round design
	1	Cam Set		<b>1749M</b> Std Only	Bi-Metal Aluminum
	1	Cam Set		<b>1750M</b> Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump		<b>224-4146</b>	5/8" inlet	
1	Inter. Shaft		<b>224-6146</b>	Use w/nylon shaft guide	
1	Oil Pump Shaft Guide		<b>224-43343</b>	Nylon	
1	Screen Assy.		<b>224-1246</b>	AQ200D & BB225A Eng.s.; 5/8" inlet tube	
1	Screen Assy.		<b>224-1346</b>	AQ225D & BB225AV Eng.s.; 5/8" inlet tube	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit		<b>381-8059</b>		

**5.7L 5736cc (350) OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 2**  
**Marine Applications** Models AQ260 (260 HP); AQ271 (270 HP); AQ271 (275 HP); AQ290 (290 HP);  
 AQ311 (307 HP); BB260, BB261 (260 HP); 5.7 Gi (250 HP); 5.7 GL (215 HP); 570, 570 DP (245 HP);  
 571 (273 HP); 572 (225 HP)

VALVE TRAIN	QTY	TIMING	YEARS	PART NO.	DESCRIPTION
	1	3 Piece Set		<b>KT3-499S</b>	AQ260A & BB260AV Eng.s.; w/.405" tooth width sprocket; Incl. (1) 222-499, (1) 223-390, (1) 223-391
	1	3 Piece Set		<b>KT3-163S</b>	AQ290A Eng.s.; Incl. double rlr. type chain; Incl. (1) 222-163, (1) 223-288, (1) 223-289
	1	Timing Chain		<b>222-499</b>	AQ260A & BB260AV Eng.s.; Use w/.405" tooth width sprocket; 46 Links
	1	Timing Chain		<b>222-163</b>	AQ290A Eng.s.; Double rlr.; 58 Links
	1	Crank Sprocket		<b>223-391</b>	AQ260A & BB260AV Eng.s.; Powdered metal; .405" tooth width sprocket; 18 Teeth
	1	Crank Sprocket		<b>223-289</b>	AQ290A Eng.s.; Double row; 22 Teeth
	1	Cam Sprocket		<b>223-390</b>	AQ260A & BB260AV Eng.s.; .405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket		<b>223-390N</b>	AQ260A & BB260AV Eng.s.; Nylon; .405" tooth width sprocket; 36 Teeth
	1	Cam Sprocket		<b>223-288</b>	AQ290A Eng.s.; Double row; 44 Teeth
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION	
16	Lifter		<b>HT-817</b> Std Only	Hyd.	
16	Lifter, Bulk		<b>HT-817B</b> Std Only	Hyd.; Carton of 128	
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION	
16	Push Rod		<b>RP-3212R</b>	Chrome-Moly; 7.7900" O.A.L.	
16	Push Rod		<b>RP-3212R100</b>	Chrome-Moly; 7.8900" O.A.L.	
16	Push Rod		<b>RP-3212R150</b>	Chrome-Moly; 7.9400" O.A.L.	
16	Push Rod		<b>RP-3212R200</b>	Chrome-Moly; 7.9900" O.A.L.	
16	Push Rod		<b>RP-3093</b>	7.7940" O.A.L.	
16	Push Rod, Bulk		<b>BRP-3093</b>	Carton of 100; 7.7940" O.A.L.	
16	Push Rod, Bulk		<b>BRP-3212R</b>	Chrome-Moly; Carton of 100; 7.7900" O.A.L.	
16	Push Rod, Bulk		<b>BRP-3212R100</b>	Chrome-Moly; Carton of 100; 7.8900" O.A.L.	
QTY	ROCKER PARTS	YEARS	PART NO.	DESCRIPTION	
16	Arm Assy.		<b>R-826</b>	Incl. arm, ball & nut	
16	Arm Assy., Bulk		<b>R-826B</b>	Incl. arm, ball & nut; Carton of 64	
16	Arm		<b>R-826A</b>		
16	Stud		<b>MR-1752</b>	.003" O/S, 3/8" x 24 x 2.495"	
16	Stud		<b>MR-1949</b>	3/8" x 24 x 2.495"	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION	
8	Exhaust		<b>V-1888X</b> Std-15	AQ260A & AQ290A Eng.s.; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3412" Stem Dia., 4.9230" O.A.L.	
8	Exhaust		<b>V-1988X</b> Std-3-15	BB260A & BB260AV Eng.s.; 1 groove; Chrome plated stem; Stellite face; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	
8	Exhaust, Bulk		<b>V-1988XB</b> Std-15	BB260A & BB260AV Eng.s.; 1 groove; Chrome plated stem; Stellite face; Carton of 25; 1.5000" Head Dia., .3718" Stem Dia., 4.9230" O.A.L.	

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# Volvo Marine

## 2 5.7L 5736cc (350) OHV V8 (Chevrolet), 4" Bore (GMC Eng.)

(cont.) **Marine Applications** Models AQ260 (260 HP); AQ271 (270 HP); AQ271 (275 HP); AQ290 (290 HP); AQ311 (307 HP); BB260, BB261 (260 HP); 5.7 Gi (250 HP); 5.7 GL (215 HP); 570, 570 DP (245 HP); 571 (273 HP); 572 (225 HP)

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide		VG-5005	Exh.; AQ260A & AQ290A Eng.s.; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5046	Exh.; BB260A & BB260AV Eng.s.; .502" OD; .3740" ID, 2.2500" O.A.L.
8	Guide		VG-5005H	Exh.; Hardened; .3430" ID, 2.2500" O.A.L.
8	Guide		VG-5005T	Exh.; Threaded; .3425" ID, 2.2500" O.A.L.
8	Guide		VG-5038	Int.; .3430" ID, 2.1200" O.A.L.
8	Guide, Bulk		VG-5005B	Exh.; AQ260A & AQ290A Eng.s.; Carton of 50; .3430" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5005TB	Exh.; Threaded; Carton of 50; .3425" ID, 2.2500" O.A.L.
8	Guide, Bulk		VG-5038B	Int.; Carton of 50; .3430" ID, 2.1200" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
16	Spring		VS-677	Incl. damper; 2.0300" Free Height
16	Spring, Bulk		VS-677B	Incl. damper; Carton of 250; 2.0300" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
16	Valve Stem Seal		MV-1903	Use w/repair guide; Positive type; Rubber
16	Valve Stem Seal		ST-2001	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Rubber/PTFE
16	Valve Stem Seal		MV-1233C	O-Ring; Rubber
16	Valve Stem Seal Bulk		MV-1233	O-Ring; Carton of 100; Rubber
16	Valve Stem Seal Bulk		ST-2001BC	Use w/O.E. guide; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.		245-1562-1N Std Only	Premium Material; 1.5675" OD, 1.3125" ID, .2160" Depth
8	Exh.		245-1562-1 Std Only	1.5675" OD, 1.3125" ID, .2160" Depth
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
32	Keeper		VK-115	1 groove; Square cut key groove
32	Keeper		VK-115R	1 groove; Square cut key groove; Hardened
32	Keeper, Bulk		VK-115B	1 groove; Square cut key groove; Carton of 1000
8	Rotocap		RC-157S	Exh.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
8	Cast Piston		345NP Std-20-30-40-60-80	AQ260A, BB260A, BB260AV Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston		H345NCP Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston		H345NP Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
8	Cast Piston - Individual		W345NP Std-20-30-40-60-80	AQ260A, BB260A, BB260AV Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Cast Piston - Individual		WH345NCP Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
8	Cast Piston - Individual		WH345NP Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Use in sets only; Hypereutectic; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Prem. Rings		8KH345NCP30 30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs; <b>DurOshield® skirt coated piston</b>
1	Cast Piston Set w/Prem. Rings		8KH345NP30 30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Not O.E. duplicate Wt.; Use in sets only; Cast; 2-5/64", 1-3/16" Ring Groove, 1.560" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs
1	Cast Piston Set w/Econ. Rings		8X345NP20 20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Cast; 2-5/64", 1-3/16" Ring Groove, 1.540" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs - 8.7:1 C.R.
8	Powerforged		L-2256F Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
8	Forged Piston - Individual		WL-2256F Std-20-30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9275" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>

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# Volvo Marine

**5.7L 5736cc (350) OHV V8 (Chevrolet), 4" Bore (GMC Eng.) 2**  
**Marine Applications** Models AQ260 (260 HP); AQ271 (270 HP); AQ271 (275 HP); AQ290 (290 HP); (cont.)  
 AQ311 (307 HP); BB260, BB261 (260 HP); 5.7 Gi (250 HP); 5.7 GL (215 HP); 570, 570 DP (245 HP);  
 571 (273 HP); 572 (225 HP)

QTY	PISTON (cont.)	YEARS	PART NO.	DESCRIPTION
1	Forged Piston Set w/Rings		<b>8KL2256F30</b> 30-40-60	AQ260A, BB260A, BB260AV Eng.s.; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.563" CD, .9272" Pin Dia., Flat Head w/4 valve reliefs. <b>DurOshield® skirt coated piston.</b>
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set		<b>E-251K</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Premium Set		<b>E-251KC</b> Std-10-20-30-40-60	2-5/64, 1-3/16
1	Standard Set		<b>E-251X</b> Std-10-20-30-40-60-80	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251K</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Premium Single Cylinder Set		<b>WE-251KC</b> Std-20-30-40-60	2-5/64, 1-3/16
8	Standard Single Cylinder Set		<b>WE-251X</b> Std-20-30-40-60-80	2-5/64, 1-3/16
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set		<b>4663M</b> Std-1-2-10-20-30-40-60	
1	Main Set		<b>6688M10</b> 10-20-30	.020" O/S length flange brg.
1	Main Set		<b>4663MA</b> Std-1-2-10-20-30-40-60	<b>A-Series aluminum bearings</b>
1	Main Set		<b>7329MA10</b> 10-20-30	<b>A-Series aluminum bearings</b> ; .010" O/S length flange brg.
1	Main Set		<b>7274MA10X20</b> 10X20	<b>A-Series aluminum bearings</b> ; w/.020" O/S OD
1	Rod Set		<b>8-2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
1	Rod Set		<b>8-2555CP10X2</b> 10X2-20X2-40X2	Use in .002" O/S Rod Bore; Overplated copper-lead alloy
1	Rod Set		<b>8-2555CP</b> Std-1-2-10-20-30-40-50	8-2555CA 60 avail. as unplated & resizeable; Overplated copper-lead alloy
1	Rod Set		<b>8-2555CA60</b> 60	Unplated & resizeable
8	Rod Pair		<b>2555A</b> Std-1-2-10-20-30-40-50-60	<b>A-Series aluminum bearings</b>
8	Rod Pair		<b>2555CP</b> Std-1-2-10-20-30-40-50	Overplated copper-lead alloy
8	Rod Pair		<b>2555CA60</b> 60	Unplated & resizeable
1	Cam Set		<b>1235M</b> Std-1-10	Babbitt material; Full round design
1	Cam Set		<b>1749M</b> Std Only	Bi-Metal Aluminum
1	Cam Set		<b>1750M</b> Std Only	2.030" housing bore
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump		<b>224-4146</b>	5/8" inlet
1	Inter. Shaft		<b>224-6146</b>	Use w/nylon shaft guide
1	Oil Pump Shaft Guide		<b>224-43343</b>	Nylon
1	Screen Assy.		<b>224-1246</b>	AQ260A & BB260A Eng.s.; 5/8" inlet tube
1	Screen Assy.		<b>224-1346</b>	BB260AV Eng.s.; 5/8" inlet tube
QTY	GASKETS	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set		<b>260-1517M</b>	Reverse Rotation; One-piece rear main brg. seal, one-piece oil pan gskt. & both rim bolt & center bolt valve cover gskts. incl.
1	Kit Gasket Set		<b>260-1516M</b>	Standard Rotation; One-piece rear main brg. seal, one-piece oil pan gskt., & both rim bolt & center bolt valve cover gskts. incl.
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit		<b>381-8007</b>	
1	Steel Block Plug Kit		<b>381-4011</b>	

# VW Car

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.2L 1192cc OHV H4 77mm Bore (Air Cooled).....	1965-54	..... 1	1.7L 1679cc OHV H4 90mm Bore (Air Cooled).....	1974-71	..... 10
1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve).....	1980-78	..... 2	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve).....	1984-81	..... 11
1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve).....	1975-74	..... 3	1.8L 1780cc SOHC L4 81mm Bore (8 Valve).....	1990-83	..... 12
1.5L 1471cc SOHC Diesel L4 76.5mm Bore (8 Valve).....	1980-77	..... 4	1.8L 1780cc DOHC L4 81mm Bore (16 Valve).....	1989-86	..... 13
1.5L 1493cc OHV H4 83mm Bore (Air Cooled).....	1969-67	..... 5	1.8L 1780cc SOHC L4 81mm Bore (Supercharged).....	1990	..... 14
1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled).....	1979-66	..... 6	1.8L 1795cc OHV H4 93mm Bore (Air Cooled).....	1975-74	..... 15
1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve).....	1990-81	..... 7	2.0L 1984cc DOHC L4 82.5mm Bore (16 Valve).....	1990	..... 16
1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve).....	1990-82	..... 8	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve) (Audi Eng.).....	1984-83	..... 17
1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve).....	1980-75	..... 9	2.2L 2226cc SOHC L5 81mm Bore (10 Valve) (Audi Eng.).....	1988-85	..... 18

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
ABG	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12	GX	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
ACC	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12	HT	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
AD	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	JF	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve)	11
AE	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	JH	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
AF	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	JK	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve)	7
AG	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	JN	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
AH	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	JT	2.2L 2226cc SOHC L5 81mm Bore (10 Valve) (Audi Eng.)	18
AJ	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	KM	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve) (Audi Eng.)	17
AK	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	KX	2.2L 2226cc SOHC L5 81mm Bore (10 Valve) (Audi Eng.)	18
AL	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	MD	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve)	8
AM	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	ME	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve)	7
AN	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	MF	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve)	8
AP	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	MZ	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
AS	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	P	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6
AT	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	PF	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
AW	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	PG	1.8L 1780cc SOHC L4 81mm Bore (Supercharged)	14
B	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6	PL	1.8L 1780cc DOHC L4 81mm Bore (16 Valve)	13
CA	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	RD	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
CB	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	RV	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
CD	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	T	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6
CE	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	U	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6
CK	1.5L 1471cc SOHC Diesel L4 76.5mm Bore (8 Valve)	4	UM	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
CR	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve)	7	W	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10
CR	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve)	8	WE	2.1L 2144cc SOHC L5 79.5mm Bore (10 Valve) (Audi Eng.)	17
CS	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve)	8	WT	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve)	11
CY	1.6L 1588cc SOHC Turbo-Diesel L4 76.5mm Bore (8 Valve)	8	X	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled)	6
EA	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	XR	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
EB	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10	XS	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
EC	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	XV	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
ED	1.8L 1795cc OHV H4 93mm Bore (Air Cooled)	15	XW	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
EE	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9	XY	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
EH	1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve)	2	XZ	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3
EJ	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9	YG	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9
EN	1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve)	2	YH	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9
EN	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve)	11	YK	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9
FC	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3	Z	1.7L 1679cc OHV H4 90mm Bore (Air Cooled)	10
FG	1.5L 1471cc SOHC L4 76.5mm Bore (8 Valve)	3	1V	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve)	7
FN	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve)	9	2H	1.8L 1780cc SOHC L4 81mm Bore (8 Valve)	12
FX	1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve)	2	9A	2.0L 1984cc DOHC L4 82.5mm Bore (16 Valve)	16

1.2L 1192cc OHV H4 (Air Cooled), 77mm Bore 1965-54 1					
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	65-61	VG-651	40 HP; Bronze; .3150" ID, 2.3950" O.A.L.	
8	Guide	65-60	VG-648	40 HP; .3155" ID, 2.6250" O.A.L.	
8	Guide	60	VG-651	36 HP; 40 HP; Bronze; .3150" ID, 2.3950" O.A.L.	
8	Guide	59-54	VG-651	36 HP; Bronze; .3150" ID, 2.3950" O.A.L.	
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION	
8	Spring	65-60	VS-667	40 HP; 2.0500" Free Height	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	65-61	ST-2143	Positive type; PTFE	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	65-60	VK-204	40 HP; 3 groove; w/.3125 Stem Dia.	
8	Spring Insert	65-54	259-105B	.030"; Carton of 100	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Pin Bushing	65-60	2934Y		
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION	
1	Main Set	65-60	4213M Std-.25-.50MM		
1	Rod Set	65-60	4-2930CP Std-.25-.50MM		
1	Cam Set	65-60	1713M Std Only	Single flange	
1.5L 1457cc SOHC L4 (8 Valve), 79.5mm Bore 1980-78 2					
Eng. Codes "EH" 1978-80, "EN" 1978, "FX" 1978-80					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	80-78	222-17		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	80-78	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	80-78	7286M Std-.25MM	
	1	Aux. Shaft Set	80-78	1726M	
	QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
	1	Oil Pump	80-78	224-41912	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	80-78	381-8036		
1.5L 1471cc SOHC L4 (8 Valve), 76.5mm Bore 1975-74 3					
Eng. Codes "FC" 1975, "FG" 1975, "XR" 1975, "XS" 1975, "XV" 1974, "XW" 1974, "XY" 1974, "XZ" 1974					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	75-74	222-17		
1	Timing Belt & Tensioner Set	75-74	BTS-17		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	75-74	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	75-74	ST-2039	Positive type; Rubber	
B L O C K	QTY	PISTON	YEARS	PART NO.	DESCRIPTION
	4	Pin Bushing	75-74	68099YA	
	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Main Set	75-74	6834M Std-.25MM	w/std. length flange brg.
	1	Aux. Shaft Set	75-74	1726M	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION	
1	Oil Pump	75-74	224-41912		
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION	
1	Brass Block Plug Kit	75-74	381-8036		
1.5L 1471cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1980-77 4					
Eng. Code "CK" 1977-80					
QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	80-77	222-43		
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION	
8	Guide	80-77	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.	
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	80-77	ST-2039	Positive type; Rubber	
QTY	PISTON	YEARS	PART NO.	DESCRIPTION	
4	Pin Bushing	80-77	68099YA		
QTY	RINGS	YEARS	PART NO.	DESCRIPTION	
1	Premium Set	80-77	E-493KC Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM	

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<b>4 1.5L 1471cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1980-77</b>				
(cont.) Eng. Code "CK" 1977-80				
QTY	RINGS (cont.)	YEARS	PART NO.	DESCRIPTION
4	Premium Single Cylinder Set	80-77	WE-493KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	80-77	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	80-77	1726M	
<b>5 1.5L 1493cc OHV H4 (Air Cooled), 83mm Bore 1969-67</b>				
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	69-67	RP-3154R	11.0760" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	69-67	VG-648	.3155" ID, 2.6250" O.A.L.
8	Guide	69-67	VG-651	Bronze; .3150" ID, 2.3950" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	69-67	VS-667	2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	69-67	MV-1903	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	69-67	VK-204	3 groove; w/.3125 Stem Dia.
8	Spring Insert	69-67	259-105B	.030"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	69-67	2934Y	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	69-67	4213M Std-.25-.50MM	
1	Rod Set	69-67	4-2930CP Std-.25-.50MM	
1	Cam Set	69-67	1713M Std Only	Single flange
<b>6 1.6L 1584cc OHV H4 (Air Cooled), 85.5mm Bore 1979-66</b>				
Eng. Codes "AD" 1966-74, "AE" 1970-73, "AF" 1972-79, "AG" 1973-74, "AH" 1972-74, "AJ" 1975-80, "AK" 1973-74, "AL" 1973-74, "AM" 1973-74, "AS" 1974-79, "B" 1970, "P" 1966-73, "T" 1966-73, "U" 1968-73, "X" 1972-73				
QTY	PUSH ROD	YEARS	PART NO.	DESCRIPTION
8	Push Rod	75-66	RP-3154R	11.0760" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	79-66	VG-13832	.3135" ID, 2.3980" O.A.L.
8	Guide	79-66	VG-648	.3155" ID, 2.6250" O.A.L.
8	Guide	79-66	VG-651	Bronze; .3150" ID, 2.3950" O.A.L.
QTY	VALVE SPRING	YEARS	PART NO.	DESCRIPTION
8	Spring	79-66	VS-667	2.0500" Free Height
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	79-76	ST-2039	Positive type; Rubber
8	Valve Stem Seal	75-66	MV-1903	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	79-66	VK-204	3 groove; w/.3125 Stem Dia.
8	Spring Insert	79-66	259-105B	.030"; Carton of 100
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
1	Pin Bushing	79-66	2934Y	
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	79-66	E-307KC Std Only	2-2.00MM, 1-5.00MM
1	Standard Set	79-66	E-307X Std Only	2-2.00MM, 1-5.00MM
4	Premium Single Cylinder Set	79-66	WE-307KC Std Only	2-2.00MM, 1-5.00MM
4	Standard Single Cylinder Set	79-66	WE-307X Std Only	2-2.00MM, 1-5.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	79-68	4213M Std-.25-.50MM	
1	Rod Set	79-68	4-2930CP Std-.25-.50MM	
1	Cam Set	79-68	1713M Std Only	Single flange
<b>7 1.6L 1588cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1990-81</b>				
Eng. Codes "CR" 1981-83, "JK" 1983-84, "ME" 1985-92, "1V" 1991-92				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-81	222-43	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
8	Lifter	90-86	HT-2236 Std Only	Hyd. bucket type lifter
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	90-81	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.

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1.6L 1588cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1990-81 <b>7</b>				
Eng. Codes "CR" 1981-83, "JK" 1983-84, "ME" 1985-92, "1V" 1991-92 (cont.)				
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-82	VK-204	3 groove; w/.3125 Stem Dia.
16	Keeper	81	VK-204	From 9/81; 3 groove; w/.3125 Stem Dia.
QTY	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	87-81	E-493KC Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM
4	Premium Single Cylinder Set	87-81	WE-493KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-81	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	90-81	4-68150CP Std Only	
1	Aux. Shaft Set	90-81	1726M	
1.6L 1588cc SOHC Turbo-Diesel L4 (8 Valve), 76.5mm Bore 1990-82 <b>8</b>				
Eng. Codes "CR" 1983-84, "CS" 1983-84, "CY" 1982-84, "MD" 1985, "MF" 1985-92				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-82	222-43	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	86-82	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	86-82	4-68150CP Std Only	
1	Aux. Shaft Set	86-82	1726M	
1.6L 1588cc SOHC L4 (8 Valve), 79.5mm Bore 1980-75 <b>9</b>				
Eng. Codes "EE" 1976-78, "EJ" 1979-80, "FN" 1975-76, "YG" 1976-80, "YH" 1976-80, "YK" 1976				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	80-75	222-17	
1	Timing Belt & Tensioner Set	80-75	BTS-17	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
8	Guide	80-75	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	80-76	68099YA	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	80-76	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	80-76	1726M	
QTY	OIL PUMP	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	80-79	224-41912	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	80-75	381-8036	
1.7L 1679cc OHV H4 (Air Cooled), 90mm Bore 1974-71 <b>10</b>				
Eng. Codes "CA" 1972-73, "CB" 1972-73, "CD" 1973, "CE" 1973, "EA" 1972-74, "EB" 1973, "W" 1971-73, "Z" 1971-73				
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	74-71	VG-651	Int.; Bronze; .3150" ID, 2.3950" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	74-71	MV-1903	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	74-71	VK-204	3 groove; w/.3125 Stem Dia.
8	Spring Insert	74-71	259-105B	.030"; Carton of 100
1.7L 1715cc SOHC L4 (8 Valve), 79.5mm Bore 1984-81 <b>11</b>				
Eng. Codes "EN" 1981-84, "JF" 1982-84, "WT" 1982-83				
QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	84-81	222-17	
1	Timing Belt & Tensioner Set	84-81	BTS-17	
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	84-81	VG-776	Exh.; .3149" ID, 1.6750" O.A.L.
4	Guide	84-81	VG-705	Int.; Bronze; .3150" ID, 1.4400" O.A.L.
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	84-81	ST-2039	Positive type; Rubber
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	84-81	VK-204	3 groove; w/.3125 Stem Dia.
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	84-81	68099YA	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-81	6834M Std-.25MM	w/std. length flange brg.

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## 11 1.7L 1715cc SOHC L4 (8 Valve), 79.5mm Bore 1984-81 (cont.) Eng. Codes "EN" 1981-84, "JF" 1982-84, "WT" 1982-83

ENGINE BEARINGS				
QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Aux. Shaft Set	84-81	1726M	

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	84-81	224-41912	

## 12 1.8L 1780cc SOHC L4 (8 Valve), 81mm Bore 1990-83 Eng. Codes "ABG" 1991-93, "ACC" 1993-99, "GX" 1985-87, "HT" 1984-86, "JH" 1983-89, "JN" 1984-90, "MZ" 1985-86, "PF" 1987-92, "RD" 1985-88, "RV" 1988-92, "UM" 1987-90, "2H" 1990-93

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90-83	222-17	
1	Timing Belt Tensioner	90-83	222-148BT	
1	Timing Belt & Tensioner Set	90-83	BTS-17	

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
4	Exhaust	90-85	V-4520X	Std Only Exc. Eng. Codes "JH" & "RD"; 1.2990" Head Dia., .3127" Stem Dia., 3.5910" O.A.L.

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
8	Guide	90-85	VG-776	.3149" ID, 1.6750" O.A.L.
8	Guide	90-85	VG-705	Bronze; .3150" ID, 1.4400" O.A.L.
8	Guide	84-83	VG-698	.3145" ID, 1.8000" O.A.L.

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
16	Keeper	90-83	VK-204	3 groove; w/.3125 Stem Dia.

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	90-83	4469Y	

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Premium Set	90-83	E-494K	Std Only 1-1.50MM, 1-1.75MM, 1-3.00MM
1	Premium Set	90-83	E-494KC	Std Only 1-1.50MM, 1-1.75MM, 1-3.00MM
4	Premium Single Cylinder Set	90-83	WE-494KC	Std Only 1-1.50MM, 1-1.75MM, 1-3.00MM

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-89	7286M	Std-.25MM
1	Main Set	88-84	6834M	Std-.25MM w/std. length flange brg.
1	Rod Set	90-89	4-4465P	Std-.25MM w/oil hole
1	Rod Set	88-84	4-68150CP	Std Only
1	Aux. Shaft Set	88-84	1726M	

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Oil Pump	90	224-43623	Eng. Codes "2H", "PF" & "RV"
1	Oil Pump	90-87	224-43624	Eng. Code "UM"
1	Oil Pump	90-84	224-43624	Eng. Code "JN"
1	Oil Pump	89-88	224-43623	Eng. Codes "PF" & "RV"
1	Oil Pump	87-86	224-43623	Eng. Codes "GX" & "RD"
1	Oil Pump	85	224-43623	Eng. Codes "GX" & "HT"
1	Oil Pump	83	224-41912	Eng. Code "EN"

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Kit Gasket Set	90-83	260-1299	Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	90-83	381-8103	

BLOCK

BLOCK

KITS

KITS

RE-RING KIT	PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS DESCRIPTION		
88-84 Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.	205-6072	----

OVERHAUL KIT	PREMIUM KIT NO.	ECONOMY KIT NO.
YEARS DESCRIPTION		
88-86 Timing belt, cam kit, oil pump & freeze plugs not incl.; Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.; w/std. length flange brg.	MK-6072A	----
85-84 Timing belt, cam kit, oil pump & freeze plugs not incl.; Premium valve stem seals incl.; Exh. pipe packing not incl.; 9 bolt water pump gskt. not incl.; w/std. length flange brg.	MK-6072A	----

## 13 1.8L 1780cc DOHC L4 (16 Valve), 81mm Bore 1989-86 Eng. Code "PL" 1986-89

QTY	DESCRIPTION	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	89-87	222-B133	
1	Timing Belt	86	222-17	

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## 1.8L 1780cc DOHC L4 (16 Valve), 81mm Bore 1989-86 13

Eng. Code "PL" 1986-89 (cont.)

QTY	TIMING (cont.)	YEARS	PART NO.	DESCRIPTION
1	Timing Belt & Tensioner Set	89-87	BTS-17	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	89-86	HT-2236 Std Only	Hyd. bucket type lifter
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Intake	89-86	V-4616 Std Only	1.2600" Head Dia., .2742" Stem Dia., 3.7600" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	89-86	VG-1420T	Exh. & Int.; .2765" ID, 1.5950" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	89-86	245-1125-54 Std Only	1.1250" OD, .9000" ID, .3250" Depth
8	Int.	89-86	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	88-87	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	88-87	4-68150CP Std Only	
1	Aux. Shaft Set	88-87	1726M	
QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
1	Brass Block Plug Kit	89-87	381-8103	

## 1.8L 1780cc SOHC L4 (Supercharged), 81mm Bore 1990 14

Eng. Code "PG" 1990-94 (S/C)

QTY	TIMING	YEARS	PART NO.	DESCRIPTION	
1	Timing Belt	90	222-17		
1	Timing Belt & Tensioner Set	90	BTS-17		
QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION	
8	Valve Stem Seal	90	ST-2039	Exh. & Int.; Positive type; Rubber	
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION	
16	Keeper	90	VK-204	3 groove; w/.3125 Stem Dia.	
B L O C K	QTY	RINGS	YEARS	PART NO.	DESCRIPTION
	1	Premium Set	90	E-494KC Std Only	1-1.50MM, 1-1.75MM, 1-3.00MM
	4	Premium Single Cylinder Set	90	WE-494KC Std Only	1-1.50MM, 1-1.75MM, 1-3.00MM
B L O C K	QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
	1	Rod Set	90	4-4465P Std-.25MM	w/oil hole
B L O C K	QTY	FREEZE PLUGS	YEARS	PART NO.	DESCRIPTION
	1	Brass Block Plug Kit	90	381-8103	

## 1.8L 1795cc OHV H4 (Air Cooled), 93mm Bore 1975-74 15

Eng. Codes "AN" 1974, "AP" 1974-75, "AT" 1974, "AW" 1974-75, "EC" 1974, "ED" 1974-75

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	75-74	VG-651	Int.; Bronze; .3150" ID, 2.3950" O.A.L.
QTY	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
16	Keeper	75-74	VK-204	3 groove; w/.3125 Stem Dia.
8	Spring Insert	75-74	259-105B	.030"; Carton of 100

## 2.0L 1984cc DOHC L4 (16 Valve), 82.5mm Bore 1990 16

Eng. Code "9A" 1990-94

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	90	222-B133	
QTY	CAMSHAFT/LIFTER	YEARS	PART NO.	DESCRIPTION
16	Lifter	90	HT-2236 Std Only	Hyd. bucket type lifter; Hyd. bucket type lifter
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
8	Exhaust	90	V-4619X Std Only	From Chassis No. 31P160001; Tapered stem; 1.0630" Head Dia., .2731" Stem Dia., 3.8560" O.A.L.
8	Intake	90	V-4616 Std Only	From Chassis No. 31P160001; 1.2600" Head Dia., .2742" Stem Dia., 3.7600" O.A.L.
QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
16	Guide	90	VG-1420T	Exh. & Int.; .2765" ID, 1.5950" O.A.L.
QTY	VALVE SEAT	YEARS	PART NO.	DESCRIPTION
8	Exh.	90	245-1125-54 Std Only	1.1250" OD, .9000" ID, .3250" Depth
8	Int.	90	245-1312-64 Std Only	1.3190" OD, 1.0450" ID, .3165" Depth
QTY	PISTON	YEARS	PART NO.	DESCRIPTION
4	Pin Bushing	90	4469Y	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90	7286M Std-.25MM	
1	Rod Set	90	4-4465P Std-.25MM	w/oil hole

# VW Car

## 17 2.1L 2144cc SOHC L5 (10 Valve), 79.5mm Bore (Audi Eng.) 1984-83

Eng. Codes "KM" 1984-85, "WE" 1983-84

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	83	222-B127	
QTY	VALVE	YEARS	PART NO.	DESCRIPTION
5	Exhaust	84	V-4520X Std Only	Eng. Code "KM"; 1.2990" Head Dia., .3127" Stem Dia., 3.5910" O.A.L.
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Rod Set	83	5-68095CP Std Only	
5	Rod Pair	84	68150CP Std Only	

## 18 2.2L 2226cc SOHC L5 (10 Valve), 81mm Bore (Audi Eng.) 1988-85

Eng. Codes "JT" 1985-88, "KX" 1985-88

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	88-85	222-B127	
QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
5	Rod Pair	88-85	68150CP Std Only	

# VW Truck

## Engine Finding Index

Engine	For Year	Line No.	Engine	For Year	Line No.
1.2L 1192cc OHV H4 77mm Bore (Air Cooled) L/D Truck	1965-59	1	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	1973-72	8
1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	1980	2	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	1983-81	9
1.5L 1471cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	1980	3	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	1975-74	10
1.5L 1493cc OHV H4 83mm Bore (Air Cooled) L/D Truck	1967-63	4	1.9L 1915cc OHV H4 94mm Bore (Water Cooled) L/D Truck	1985-83	11
1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	1971-68	5	2.0L 1970cc OHV H4 94mm Bore (Air Cooled) L/D Truck	1983-76	12
1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	1985-81	6	2.1L 2109cc OHV H4 94mm Bore (Water Cooled) L/D Truck	1990-86	13
1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	1980	7			

## Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
AD	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	CR	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	6
AE	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	CS	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	6
AF	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	CV	2.0L 1970cc OHV H4 94mm Bore (Air Cooled) L/D Truck	12
AN	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	10	DH	1.9L 1915cc OHV H4 94mm Bore (Water Cooled) L/D Truck	11
AP	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	10	EA	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	8
AS	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	ED	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	10
AT	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	10	EH	1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	2
AW	1.8L 1795cc OHV H4 93mm Bore (Air Cooled) L/D Truck	10	EJ	1.6L 1588cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	7
B	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	EN	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	9
C	1.6L 1584cc OHV H4 85.5mm Bore (Air Cooled) L/D Truck	5	FX	1.5L 1457cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	2
CA	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	8	GD	2.0L 1970cc OHV H4 94mm Bore (Air Cooled) L/D Truck	12
CB	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	8	GE	2.0L 1970cc OHV H4 94mm Bore (Air Cooled) L/D Truck	12
CD	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	8	JF	1.7L 1715cc SOHC L4 79.5mm Bore (8 Valve) L/D Truck	9
CE	1.7L 1679cc OHV H4 90mm Bore (Air Cooled) L/D Truck	8	JK	1.6L 1588cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	6
CJ	2.0L 1970cc OHV H4 94mm Bore (Air Cooled) L/D Truck	12	MV	2.1L 2109cc OHV H4 94mm Bore (Water Cooled) L/D Truck	13
CK	1.5L 1471cc SOHC Diesel L4 76.5mm Bore (8 Valve) L/D Truck	3			

# VW Truck

1.2L 1192cc OHV H4 (Air Cooled), 77mm Bore 1965-59 L/D Truck <b>1</b>					
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	65-60	<b>VG-648</b>	40 HP; .3155" ID, 2.6250" O.A.L.	
8	Guide	65-59	<b>VG-651</b>	36 HP; 40 HP; Bronze; .3150" ID, 2.3950" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	65-60	<b>VS-667</b>	40 HP; 2.0500" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	65-61	<b>ST-2143</b>	Positive type; PTFE	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	65-60	<b>VK-204</b>	40 HP; 3 groove; w/.3125 Stem Dia.	
8	Spring Insert	65-59	<b>259-105B</b>	.030"; Carton of 100	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Pin Bushing	65-61	<b>2934Y</b>		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	65-60	<b>4213M</b> Std-.25-.50MM		
1	Rod Set	65-60	<b>4-2930CP</b> Std-.25-.50MM		
1	Cam Set	65-60	<b>1713M</b> Std Only	Single flange	
1.5L 1457cc SOHC L4 (8 Valve), 79.5mm Bore 1980 L/D Truck Eng. Codes "EH" 1980, "FX" 1980 <b>2</b>					
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Brass Block Plug Kit	80	<b>381-8036</b>		
1.5L 1471cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1980 L/D Truck Eng. Code "CK" 1980 <b>3</b>					
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Pin Bushing	80	<b>68099YA</b>	
	<b>QTY</b>	<b>RINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	Premium Set	80	<b>E-493KC</b> Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM	
4	Premium Single Cylinder Set	80	<b>WE-493KC</b> Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	80	<b>6834M</b> Std-.25MM	w/std. length flange brg.	
1	Aux. Shaft Set	80	<b>1726M</b>		
<b>B L O C K</b>					
1.5L 1493cc OHV H4 (Air Cooled), 83mm Bore 1967-63 L/D Truck <b>4</b>					
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Push Rod	67	<b>RP-3154R</b>	11.0760" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	67	<b>VG-648</b>	.3155" ID, 2.6250" O.A.L.	
8	Guide	67	<b>VG-651</b>	Bronze; .3150" ID, 2.3950" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	67	<b>VS-667</b>	2.0500" Free Height	
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	67	<b>MV-1903</b>	Positive type; Rubber	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	67	<b>VK-204</b>	3 groove; w/.3125 Stem Dia.	
8	Spring Insert	67	<b>259-105B</b>	.030"; Carton of 100	
<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Pin Bushing	67-63	<b>2934Y</b>		
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	67-63	<b>4213M</b> Std-.25-.50MM		
1	Rod Set	67-63	<b>4-2930CP</b> Std-.25-.50MM		
1	Cam Set	67-63	<b>1713M</b> Std Only	Single flange	
1.6L 1584cc OHV H4 (Air Cooled), 85.5mm Bore 1971-68 L/D Truck Eng. Codes "AD" 1968-74, "AE" 1970-71, "AF" 1971-79, "AS" 1974-79, "B" 1968-70, "C" 1968-70 <b>5</b>					
<b>QTY</b>	<b>PUSH ROD</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Push Rod	71-68	<b>RP-3154R</b>	11.0760" O.A.L.	
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Guide	71-68	<b>VG-648</b>	.3155" ID, 2.6250" O.A.L.	
8	Guide	71-68	<b>VG-651</b>	Bronze; .3150" ID, 2.3950" O.A.L.	
<b>QTY</b>	<b>VALVE SPRING</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Spring	71-68	<b>VS-667</b>	2.0500" Free Height	

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# VW Truck

**5 1.6L 1584cc OHV H4 (Air Cooled), 85.5mm Bore 1971-68**  
 (cont.) L/D Truck Eng. Codes "AD" 1968-74, "AE" 1970-71, "AF" 1971-79, "AS" 1974-79, "B" 1968-70, "C" 1968-70

QTY	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
8	Valve Stem Seal	71-68	MV-1903	Positive type; Rubber
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	71-68	VK-204	3 groove; w/.3125 Stem Dia.
	Spring Insert	71-68	259-105B	.030"; Carton of 100
4	PISTON	YEARS	PART NO.	DESCRIPTION
	Pin Bushing	71-68	2934Y	
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	71-68	E-307KC Std Only	2-2.00MM, 1-5.00MM
1	Standard Set	71-68	E-307X Std Only	2-2.00MM, 1-5.00MM
4	Premium Single Cylinder Set	71-68	WE-307KC Std Only	2-2.00MM, 1-5.00MM
4	Standard Single Cylinder Set	71-68	WE-307X Std Only	2-2.00MM, 1-5.00MM
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	71-68	4213M Std-.25-.50MM	
1	Rod Set	71-68	4-2930CP Std-.25-.50MM	
1	Cam Set	71-68	1713M Std Only	Single flange

**6 1.6L 1588cc SOHC Diesel L4 (8 Valve), 76.5mm Bore 1985-81**  
 L/D Truck Eng. Codes "CR" 1981-83, "CS" 1982-85, "JK" 1983

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	85-81	222-43	
1	Timing Belt & Tensioner Set	85-81	BTS-17	
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	84-81	E-493KC Std-.25-.50MM	1-1.75MM, 1-2.00MM, 1-3.00MM
4	Premium Single Cylinder Set	84-81	WE-493KC Std Only	1-1.75MM, 1-2.00MM, 1-3.00MM
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	84-81	6834M Std-.25MM	w/std. length flange brg.
1	Rod Set	84-81	4-68150CP Std Only	
1	Aux. Shaft Set	84-81	1726M	

**7 1.6L 1588cc SOHC L4 (8 Valve), 79.5mm Bore 1980**  
 L/D Truck Eng. Code "EJ" 1980

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	80	222-17	
1	Timing Belt Tensioner	80	222-148BT	
1	Timing Belt & Tensioner Set	80	BTS-17	
4	PISTON	YEARS	PART NO.	DESCRIPTION
	Pin Bushing	80	68099YA	
1	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	80	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	80	1726M	

**8 1.7L 1679cc OHV H4 (Air Cooled), 90mm Bore 1973-72**  
 L/D Truck Eng. Codes "CA" 1972-73, "CB" 1972-73, "CD" 1973, "CE" 1973, "EA" 1972-73

QTY	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	73-72	VG-651	Int.; Bronze; .3150" ID, 2.3950" O.A.L.
8	VALVE SEAL	YEARS	PART NO.	DESCRIPTION
	Valve Stem Seal	73-72	MV-1903	Positive type; Rubber
16	VALVE, MISC	YEARS	PART NO.	DESCRIPTION
8	Keeper	73-72	VK-204	3 groove; w/.3125 Stem Dia.
	Spring Insert	73-72	259-105B	.030"; Carton of 100
1	RINGS	YEARS	PART NO.	DESCRIPTION
1	Premium Set	73-72	E-392KC Std Only	2-2.00MM, 1-4.00MM
1	Standard Set	73-72	E-392X Std Only	2-2.00MM, 1-4.00MM

**9 1.7L 1715cc SOHC L4 (8 Valve), 79.5mm Bore 1983-81**  
 L/D Truck Eng. Codes "EN" 1981-83, "JF" 1982-83

QTY	TIMING	YEARS	PART NO.	DESCRIPTION
1	Timing Belt	83-81	222-17	
1	Timing Belt & Tensioner Set	83-81	BTS-17	
4	VALVE GUIDE	YEARS	PART NO.	DESCRIPTION
4	Guide	83-81	VG-776	Exh.; .3149" ID, 1.6750" O.A.L.
4	Guide	83-81	VG-705	Int.; Bronze; .3150" ID, 1.4400" O.A.L.

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# VW Truck

1.7L 1715cc SOHC L4 (8 Valve), 79.5mm Bore 1983-81 <b>9</b>					
L/D Truck Eng. Codes "EN" 1981-83, "JF" 1982-83 (cont.)					
<b>QTY</b>	<b>VALVE SEAL</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Valve Stem Seal	83-81	ST-2039	Positive type; Rubber	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	83-81	VK-204	3 groove; w/.3125 Stem Dia.	
<b>B L O C K</b>	<b>QTY</b>	<b>PISTON</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	4	Pin Bushing	83-81	68099YA	
	<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
	1	Main Set	83-81	6834M Std-.25MM	w/std. length flange brg.
1	Aux. Shaft Set	83-81	1726M		
<b>QTY</b>	<b>OIL PUMP</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Oil Pump	83-81	224-41912		
<b>1.8L 1795cc OHV H4 (Air Cooled), 93mm Bore 1975-74 <b>10</b></b>					
L/D Truck Eng. Codes "AN" 1974, "AP" 1974-75, "AT" 1974, "AW" 1974-75, "ED" 1974-75					
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Guide	75-74	VG-651	Int.; Bronze; .3150" ID, 2.3950" O.A.L.	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	75-74	VK-204	3 groove; w/.3125 Stem Dia.	
8	Spring Insert	75-74	259-105B	.030"; Carton of 100	
<b>1.9L 1915cc OHV H4 (Water Cooled), 94mm Bore 1985-83 <b>11</b></b>					
L/D Truck Eng. Code "DH" 1983-85					
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	85-83	VK-204	3 groove; w/.3125 Stem Dia.	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	85-83	4-2930CP Std-.25-.50MM		
<b>2.0L 1970cc OHV H4 (Air Cooled), 94mm Bore 1983-76 <b>12</b></b>					
L/D Truck Eng. Codes "CJ" 1976-79, "CV" 1980-83, "GD" 1976-77, "GE" 1977-79					
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
16	Keeper	83-76	VK-204	3 groove; w/.3125 Stem Dia.	
8	Spring Insert	83-76	259-105B	.030"; Carton of 100	
<b>2.1L 2109cc OHV H4 (Water Cooled), 94mm Bore 1990-86 <b>13</b></b>					
L/D Truck Eng. Code "MV" 1986-91					
<b>QTY</b>	<b>VALVE SEAT</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
4	Exh.	90-86	245-1437-61 Std Only	1.4445" OD, 1.1620" ID, .3100" Depth	
<b>QTY</b>	<b>VALVE, MISC</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
8	Keeper	90-86	VK-204	3 groove; w/.3125 Stem Dia.	
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Rod Set	90-86	4-2930CP Std-.25-.50MM		

## Yugo

Engine Finding Index					
Engine	For Year	Line No.	Engine	For Year	Line No.
1.1L 1116cc SOHC L4 80mm Bore (8 Valve) (Fiat Eng.)	1989-86	1	1.3L 1290cc SOHC L4 86mm Bore (8 Valve) (Fiat Eng.)	1990-87	2
Engine Code Index					
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
128A	1.1L 1116cc SOHC L4 80mm Bore (8 Valve) (Fiat Eng.)	1	128A1	1.3L 1290cc SOHC L4 86mm Bore (8 Valve) (Fiat Eng.)	2
1.1L 1116cc SOHC L4 (8 Valve), 80mm Bore (Fiat Eng.) 1989-86 <b>1</b>					
Eng. Code "128A" 1986-89					
<b>QTY</b>	<b>ENGINE BEARINGS</b>	<b>YEARS</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	
1	Main Set	89-86	4659M10 10-20-30		
1	Thrust Washer Set	89-86	60987AF Std Only	Position 3	
1	Rod Set	89-86	4-60985RA10 10-20		

# Yugo

**2** 1.3L 1290cc SOHC L4 (8 Valve), 86mm Bore (Fiat Eng.) 1990-87  
Eng. Code "128A.064" 1987-92

QTY	ENGINE BEARINGS	YEARS	PART NO.	DESCRIPTION
1	Main Set	90-87	<b>4659M10</b>	10-20-30
1	Thrust Washer Set	90-87	<b>60987AF</b>	Std Only
1	Rod Set	90-87	<b>4-60985RA10</b>	10-20



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>BK-6006</b>			<b>BK-6053</b> (cont'd.)			<b>BK-6089</b> (cont'd.)			<b>BK-6115</b> (cont'd.)		
(1)	1485M	Camshaft Bearing Set	(1)	E-229K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(4)	489P	Cast Piston
(1)	260-1227	Gasket Kit	(6)	H695P	Cast Piston				(1)	4-1035CP	Connecting Rod Bearing Set
(1)	7047MA	Main Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set	<b>BK-6092</b>			<b>BK-6117</b>		
(1)	E-531K	Premium Piston Ring Set	<b>BK-6067</b>			(1)	1496M	Camshaft Bearing Set	(1)	1838M	Camshaft Bearing Set
(4)	569P	Cast Piston	(1)	1463M	Camshaft Bearing Set	(1)	260-1315	Gasket Kit	(1)	260-1220	Gasket Kit
(1)	4-2020CP	Connecting Rod Bearing Set	(1)	260-1241	Gasket Kit	(1)	7370M	Main Bearing Set	(1)	7245MA	Main Bearing Set
<b>BK-6011</b>			(1)	5085MA	Main Bearing Set	(1)	E-468K	Premium Piston Ring Set	(1)	E-481K	Premium Piston Ring Set
(1)	260-1460	Gasket Kit	(1)	E-229K	Premium Piston Ring Set	(8)	H587CP	Cast Piston	(6)	520P	Cast Piston
(1)	7054MA	Main Bearing Set	(6)	H645NCP	Cast Piston	(1)	8-3860P	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	E-535K	Premium Piston Ring Set	(1)	6-1020A	Connecting Rod Bearing Set	<b>BK-6093</b>			<b>BK-6119</b>		
(4)	H566P	Cast Piston	<b>BK-6069</b>			(1)	1496M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	4-1540A	Connecting Rod Bearing Set	(1)	1757M	Camshaft Bearing Set	(1)	260-1619	Gasket Kit	(1)	260-1222	Gasket Kit
<b>BK-6016</b>			(1)	260-1474	Gasket Kit	(1)	7370M	Main Bearing Set	(1)	7011MA	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	7256MA	Main Bearing Set	(1)	E-468K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set
(1)	260-1232	Gasket Kit	(1)	E-534K	Premium Piston Ring Set	(8)	H587CP	Cast Piston	(6)	H497P	Cast Piston
(1)	7242MA	Main Bearing Set	(8)	573P	Cast Piston	(1)	8-3860P	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	E-432K	Premium Piston Ring Set	(1)	8-3870RA	Connecting Rod Bearing Set	<b>BK-6098</b>			<b>BK-6120</b>		
(6)	516P	Cast Piston	<b>BK-6071</b>			(1)	1404M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1757M	Camshaft Bearing Set	(1)	260-1418	Gasket Kit	(1)	260-1556	Gasket Kit
<b>BK-6017</b>			(1)	260-1475	Gasket Kit	(1)	4400MA	Main Bearing Set	(1)	7011MA	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	7256MA	Main Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set
(1)	260-1466	Gasket Kit	(1)	E-534K	Premium Piston Ring Set	(8)	H518CP	Cast Piston	(6)	H497P	Cast Piston
(1)	7242MA	Main Bearing Set	(8)	573P	Cast Piston	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	8-3870RA	Connecting Rod Bearing Set	<b>BK-6098</b>			<b>BK-6125</b>		
(6)	H562CP	Cast Piston	<b>BK-6072</b>			(1)	260-1640	Gasket Kit	(1)	1843M	Camshaft Bearing Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	6685M	Main Bearing Set	(1)	260-1210	Gasket Kit
<b>BK-6021</b>			(1)	260-1246	Gasket Kit	(1)	E-549KC	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(3)	13509P	Cast Piston	(1)	E-446K	Premium Piston Ring Set
(1)	260-1233	Gasket Kit	(1)	E-356K	Premium Piston Ring Set	(1)	3-1140RA	Connecting Rod Bearing Set	(6)	H497P	Cast Piston
(1)	7242MA	Main Bearing Set	(8)	536NP	Cast Piston	<b>BK-6103</b>			(1)	6-1220RA	Connecting Rod Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	260-1457	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(6)	H561CP	Cast Piston	<b>BK-6078</b>			(1)	6680MA	Main Bearing Set	(1)	260-1442	Gasket Kit
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	E-540KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
<b>BK-6029</b>			(1)	260-1247	Gasket Kit	(4)	12764P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(1)	1755M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
(1)	260-1467	Gasket Kit	(1)	E-356K	Premium Piston Ring Set	<b>BK-6104</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	7144MA	Main Bearing Set	(8)	536NP	Cast Piston	(1)	260-1205	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	E-533K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6695MA	Main Bearing Set	(1)	260-1444	Gasket Kit
(6)	H564P	Cast Piston	<b>BK-6079</b>			(1)	E-470KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	1466M	Camshaft Bearing Set	(4)	H529P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
<b>BK-6040</b>			(1)	260-1477	Gasket Kit	(1)	4-1400AA	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
(1)	1755M	Camshaft Bearing Set	(1)	4281M	Main Bearing Set	<b>BK-6104</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1469	Gasket Kit	(1)	E-288K	Premium Piston Ring Set	(1)	260-1205	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	7144MA	Main Bearing Set	(8)	H801CP	Cast Piston	(1)	6695MA	Main Bearing Set	(1)	260-1444	Gasket Kit
(1)	E-532K	Premium Piston Ring Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	E-470KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
(6)	H558P	Cast Piston	<b>BK-6084</b>			(4)	H529P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	4-1400AA	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
<b>BK-6050</b>			(1)	260-1269	Gasket Kit	<b>BK-6104</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(1)	260-1205	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	260-1240	Gasket Kit	(1)	E-251K	Premium Piston Ring Set	(1)	6695MA	Main Bearing Set	(1)	260-1444	Gasket Kit
(1)	5085MA	Main Bearing Set	(8)	423NP	Cast Piston	(1)	E-470KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
(1)	E-229K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(4)	H529P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(6)	645P	Cast Piston	<b>BK-6088</b>			(1)	4-1400AA	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
(1)	6-1020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1448	Gasket Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>BK-6051</b>			(1)	260-1478	Gasket Kit	<b>BK-6104</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(1)	7291MA	Main Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	260-1240	Gasket Kit	(1)	E-530K	Premium Piston Ring Set	(1)	6695MA	Main Bearing Set	(1)	260-1444	Gasket Kit
(1)	5085MA	Main Bearing Set	(8)	H597CP	Cast Piston	(1)	E-470KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
(1)	E-459K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(4)	H529P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(6)	H728P	Cast Piston	<b>BK-6089</b>			(1)	4-3545A	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
(1)	6-1020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1448	Gasket Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>BK-6053</b>			(1)	260-1478	Gasket Kit	<b>BK-6104</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(1)	260-1205	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	260-1240	Gasket Kit	(1)	E-530K	Premium Piston Ring Set	(1)	6695MA	Main Bearing Set	(1)	260-1444	Gasket Kit
(1)	5085MA	Main Bearing Set	(8)	H597CP	Cast Piston	(1)	E-470KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
(cont'd. next column)			(1)	8-2555A	Connecting Rod Bearing Set	(4)	H537P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(6)	H523CP	Cast Piston
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	<b>BK-6112</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	260-1434	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	5085MA	Main Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set	(1)	260-1612	Gasket Kit
(cont'd. next column)			(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-442KC	Premium Piston Ring Set	(1)	7086MA	Main Bearing Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	H537P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set	(6)	H675CP	Cast Piston
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	<b>BK-6112</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	260-1434	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(cont'd. next column)			(8)	H597CP	Cast Piston	(1)	4979M	Main Bearing Set	(1)	260-1612	Gasket Kit
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	E-442KC	Premium Piston Ring Set	(1)	7086MA	Main Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	H537P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(6)	H675CP	Cast Piston
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	<b>BK-6112</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
(cont'd. next column)			(8)	H597CP	Cast Piston	(1)	260-1434	Gasket Kit	(1)	1886M	Camshaft Bearing Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	4979M	Main Bearing Set	(1)	260-1612	Gasket Kit
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	E-442KC	Premium Piston Ring Set	(1)	7086MA	Main Bearing Set
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(4)	H537P	Cast Piston	(1)	E-471K	Premium Piston Ring Set
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set	(6)	H675CP	Cast Piston
(cont'd. next column)			(8)	H597CP	Cast Piston	<b>BK-6112</b>			(1)	6-3830CPA	Connecting Rod Bearing Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	260-1434	Gasket Kit	(1)	1886M	Camshaft Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	4979M	Main Bearing Set	(1)	260-1612	Gasket Kit
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	E-352K	Premium Piston Ring Set	(1)	7086MA	Main Bearing Set
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(4)	H435P	Cast Piston	(1)	E-613K	Premium Piston Ring Set
(cont'd. next column)			(8)	H597CP	Cast Piston	(1)	4-3545A	Connecting Rod Bearing Set	(1)	H570P	Cast Piston
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	<b>BK-6112</b>			(1)	6-3055CP	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	260-1434	Gasket Kit	(1)	1844M	Camshaft Bearing Set
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	4979M	Main Bearing Set	(1)	260-1652	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set	(1)	7245MA	Main Bearing Set
(cont'd. next column)			(8)	H597CP	Cast Piston	(4)	H435P	Cast Piston	(1)	E-613K	Premium Piston Ring Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	H570P	Cast Piston
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	<b>BK-6112</b>			(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	260-1434	Gasket Kit	(1)	1844M	Camshaft Bearing Set
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set	(1)	260-1652	Gasket Kit
(cont'd. next column)			(8)	H597CP	Cast Piston	(1)	E-352K	Premium Piston Ring Set	(1)	7245MA	Main Bearing Set
<b>BK-6053</b>			(1)	1235M	Camshaft Bearing Set	(4)	H435P	Cast Piston	(1)	E-613K	Premium Piston Ring Set
(1)	1463M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set	(1)	H570P	Cast Piston
(1)	260-1240	Gasket Kit	(1)	4663MA	Main Bearing Set	<b>BK-6112</b>			(1)	6-3055CP	Connecting Rod Bearing Set
(1)	5085MA	Main Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	260-1434	Gasket Kit	(1)	1844M	Camshaft Bearing Set
(cont'd. next column)			(8)	H597CP	Cast Piston	(1)</					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description			
<b>BK-6150</b> (cont'd.)			<b>BK-6178</b>			<b>BK-6207</b>			<b>BK-6254</b>					
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	1467M	Camshaft Bearing Set	(1)	260-1549	Gasket Kit	(1)	260-1432	Gasket Kit			
<b>BK-6154</b>			(1)	260-1673	Gasket Kit	(1)	6678MA	Main Bearing Set	(1)	7090M	Main Bearing Set			
			(1)	5110M	Main Bearing Set	(1)	E-453K	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set			
			(1)	E-509K	Premium Piston Ring Set	(4)	533P	Cast Piston	(6)	H834CP	Cast Piston			
			(8)	H651CP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set			
			(1)	8-3810CP	Connecting Rod Bearing Set	<b>BK-6208</b>			<b>BK-6275</b>					
<b>BK-6155</b>			<b>BK-6181</b>			<b>BK-6209</b>			<b>BK-6276</b>					
			(1)	260-1560	Gasket Kit	(1)	260-1425	Gasket Kit	(1)	260-1734	Gasket Kit			
			(1)	7204M	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	7103M	Main Bearing Set			
			(1)	E-552KC	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-556KC	Premium Piston Ring Set			
			(4)	546P	Cast Piston	(4)	571CP	Cast Piston	(4)	H828P	Cast Piston			
(1)	4-3910RA	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-1825CP	Connecting Rod Bearing Set	<b>BK-6278</b>					
<b>BK-6158</b>			<b>BK-6187</b>			<b>BK-6210</b>								
			(1)	1244M	Camshaft Bearing Set	(1)	260-1427	Gasket Kit				(1)	260-1616	Gasket Kit
			(1)	260-1192	Gasket Kit	(1)	6678MA	Main Bearing Set				(1)	6678MA	Main Bearing Set
			(1)	6676M	Main Bearing Set	(1)	E-454K	Premium Piston Ring Set				(1)	E-454K	Premium Piston Ring Set
			(1)	E-450K	Premium Piston Ring Set	(4)	571CP	Cast Piston	(1)	571CP	Cast Piston			
(4)	525CP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(6)	464CP	Cast Piston			
(1)	4-3310CPA	Connecting Rod Bearing Set	<b>BK-6193</b>			<b>BK-6218</b>			<b>BK-6279</b>					
<b>BK-6159</b>						<b>BK-6197</b>			<b>BK-6219</b>			<b>BK-6281</b>		
						(1)	1244M	Camshaft Bearing Set	(1)	260-1426	Gasket Kit	(1)	260-1768	Gasket Kit
						(1)	260-1445	Gasket Kit	(1)	6678MA	Main Bearing Set	(1)	7320M	Main Bearing Set
						(1)	4125MA	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	E-617K	Premium Piston Ring Set
			(1)	E-458K	Premium Piston Ring Set	(1)	E-453K	Premium Piston Ring Set	(4)	13508P	Cast Piston			
(8)	517CP	Cast Piston	(4)	H579P	Cast Piston	(1)	4-4595P	Connecting Rod Bearing Set	(4)	13508P	Cast Piston			
(1)	8-2600A	Connecting Rod Bearing Set	(6)	677CP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-4595P	Connecting Rod Bearing Set			
<b>BK-6160</b>			<b>BK-6199</b>			<b>BK-6228</b>			<b>BK-6290</b>					
			(1)	1244M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1809M	Camshaft Bearing Set	(1)	260-1766	Gasket Kit
			(1)	260-1445	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	260-1646	Gasket Kit	(1)	6692M	Main Bearing Set
			(1)	4125MA	Main Bearing Set	(1)	4289M	Main Bearing Set	(1)	7278MA	Main Bearing Set	(1)	E-542KC	Premium Piston Ring Set
			(1)	E-458K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	E-529K	Premium Piston Ring Set	(4)	636P	Cast Piston
(8)	H606P	Cast Piston	(6)	470AP	Cast Piston	(4)	H579P	Cast Piston	(1)	4-3975P	Connecting Rod Bearing Set			
(1)	8-2600A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	<b>BK-6296</b>					
<b>BK-6163</b>			<b>BK-6198</b>			<b>BK-6233</b>								
			(1)	1244M	Camshaft Bearing Set	(1)	1401M	Camshaft Bearing Set				(1)	1790M	Camshaft Bearing Set
			(1)	260-1445	Gasket Kit	(1)	260-1151	Gasket Kit				(1)	260-1429	Gasket Kit
			(1)	4125MA	Main Bearing Set	(1)	5037M	Main Bearing Set				(1)	7050MA	Main Bearing Set
			(1)	E-458K	Premium Piston Ring Set	(1)	E-301K	Premium Piston Ring Set	(1)	E-536K	Premium Piston Ring Set			
(8)	506P	Cast Piston	(1)	362NP	Cast Piston	(6)	656P	Cast Piston	(4)	13507P	Cast Piston			
(1)	8-2600A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	4-3485CP	Connecting Rod Bearing Set			
<b>BK-6166</b>			<b>BK-6199</b>			<b>BK-6237</b>			<b>BK-6301</b>					
			(1)	1244M	Camshaft Bearing Set	(1)	260-1425	Gasket Kit	(1)	1484M	Camshaft Bearing Set	(1)	260-1839	Gasket Kit
			(1)	260-1720	Gasket Kit	(1)	6678MA	Main Bearing Set	(1)	260-1430	Gasket Kit	(1)	7090M	Main Bearing Set
			(1)	4125MA	Main Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	5095MA	Main Bearing Set	(1)	E-528KC	Premium Piston Ring Set
			(1)	E-458K	Premium Piston Ring Set	(4)	527P	Cast Piston	(1)	E-178K	Premium Piston Ring Set	(6)	H834CP	Cast Piston
(8)	H606P	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(8)	526P	Cast Piston	(1)	6-1735CP	Connecting Rod Bearing Set			
(1)	8-2600A	Connecting Rod Bearing Set	<b>BK-6200</b>			<b>BK-6246</b>			<b>BK-6303</b>					
<b>BK-6169</b>						<b>BK-6201</b>			<b>BK-6312</b>					
						(1)	260-1425	Gasket Kit	(1)	260-1527	Gasket Kit	(1)	260-1763	Gasket Kit
						(1)	6678MA	Main Bearing Set	(1)	7216M	Main Bearing Set	(1)	7257M	Main Bearing Set
						(1)	E-454K	Premium Piston Ring Set	(1)	E-623KC	Premium Piston Ring Set	(1)	E-561KC	Premium Piston Ring Set
			(4)	527P	Cast Piston	(6)	2743PN	Cast Piston	(4)	13506P	Cast Piston			
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-66780CP	Connecting Rod Bearing Set	<b>BK-6312</b>					
<b>BK-6173</b>			<b>BK-6206</b>			<b>BK-6312</b>								
			(1)	260-1426	Gasket Kit	(1)	260-1784	Gasket Kit						
			(1)	6678MA	Main Bearing Set	(1)	7099M	Main Bearing Set						
			(1)	E-453K	Premium Piston Ring Set	(cont'd. next page)								
			(4)	533P	Cast Piston									
(1)	4-3800CPA	Connecting Rod Bearing Set												

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>BK-6312</b> (cont'd.)			<b>BKP-6022</b>			<b>BKP-6078</b> (cont'd.)			<b>BKP-6110</b>		
(1)	E-558KC	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	260-1448	Gasket Kit
(6)	H832CP	Cast Piston	(1)	260-1233	Gasket Kit	(1)	224-4146	Oil Pump	(1)	7291MA	Main Bearing Set
(1)	6-1845CP	Connecting Rod Bearing Set	(1)	7242MA	Main Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-442KC	Premium Piston Ring Set
<b>BK-6313</b>			<b>BKP-6050</b>			<b>BKP-6079</b>			<b>BKP-6112</b>		
(1)	260-1499	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	224-41127	Oil Pump
(1)	7116MA	Main Bearing Set	(1)	260-1240	Gasket Kit	(1)	260-1477	Gasket Kit	(1)	381-8029	Brass Expansion Plug Kit
(1)	E-511KC	Premium Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	4281M	Main Bearing Set	(1)	260-1434	Gasket Kit
(4)	12895P	Cast Piston	(1)	E-229K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set
(1)	4-1610CP	Connecting Rod Bearing Set	(6)	645P	Cast Piston	(8)	H801CP	Cast Piston	(1)	E-442KC	Premium Piston Ring Set
<b>BK-6314</b>			<b>BKP-6051</b>			<b>BKP-6084</b>			<b>BKP-6113</b>		
(1)	260-1502	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1434	Gasket Kit
(1)	6622MA	Main Bearing Set	(1)	260-1240	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	4979M	Main Bearing Set
(1)	E-523KC	Premium Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	E-352K	Premium Piston Ring Set
(4)	H833CP	Cast Piston	(1)	E-229K	Premium Piston Ring Set	(8)	423NP	Cast Piston	(4)	H435P	Cast Piston
(1)	4-3895RA	Connecting Rod Bearing Set	(6)	645P	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set
<b>BK-6328</b>			<b>BKP-6053</b>			<b>BKP-6088</b>			<b>BKP-6115</b>		
(1)	260-1503	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	224-43405	Oil Pump
(1)	7148M	Main Bearing Set	(1)	260-1240	Gasket Kit	(1)	260-1478	Gasket Kit	(1)	381-8029	Brass Expansion Plug Kit
(1)	E-510KC	Premium Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	1494M	Camshaft Bearing Set
(4)	12886CP	Cast Piston	(1)	E-459K	Premium Piston Ring Set	(1)	E-530K	Premium Piston Ring Set	(1)	260-1437	Gasket Kit
(1)	4-3960CPA	Connecting Rod Bearing Set	(6)	H728P	Cast Piston	(8)	H597CP	Cast Piston	(1)	5130M	Main Bearing Set
<b>BKP-6015</b>			<b>BKP-6067</b>			<b>BKP-6092</b>			<b>BKP-6117</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1496M	Camshaft Bearing Set	(1)	1838M	Camshaft Bearing Set
(1)	260-1232	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1315	Gasket Kit	(1)	260-1220	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	7370M	Main Bearing Set	(1)	7245MA	Main Bearing Set
(1)	E-432K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set	(1)	7245MA	Main Bearing Set
(6)	516P	Cast Piston	(1)	H695P	Cast Piston	(8)	H587CP	Cast Piston	(1)	E-481K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(6)	6-1020A	Connecting Rod Bearing Set	(1)	8-3860P	Connecting Rod Bearing Set	(6)	520P	Cast Piston
(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-43424	Oil Pump	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8057	Brass Expansion Plug Kit	(1)	224-43431	Oil Pump
<b>BKP-6016</b>			<b>BKP-6072</b>			<b>BKP-6093</b>			<b>BKP-6119</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1496M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	260-1232	Gasket Kit	(1)	260-1241	Gasket Kit	(1)	260-1619	Gasket Kit	(1)	260-1222	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	7370M	Main Bearing Set	(1)	7011MA	Main Bearing Set
(1)	E-432K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(6)	516P	Cast Piston	(1)	H645NCP	Cast Piston	(8)	H587CP	Cast Piston	(1)	E-446K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(6)	6-1020A	Connecting Rod Bearing Set	(1)	8-3860P	Connecting Rod Bearing Set	(6)	H497P	Cast Piston
(1)	224-4152	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-43424	Oil Pump	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8057	Brass Expansion Plug Kit	(1)	224-41101	Oil Pump
<b>BKP-6017</b>			<b>BKP-6074</b>			<b>BKP-6098</b>			<b>BKP-6120</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	260-1466	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1418	Gasket Kit	(1)	260-1556	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	7011MA	Main Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(6)	H562CP	Cast Piston	(8)	536NP	Cast Piston	(8)	H518CP	Cast Piston	(1)	E-446K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(6)	H497P	Cast Piston
(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4153	Oil Pump	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8057	Brass Expansion Plug Kit	(1)	224-41101	Oil Pump
<b>BKP-6018</b>			<b>BKP-6077</b>			<b>BKP-6104</b>			<b>BKP-6121</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1205	Gasket Kit	(1)	1843M	Camshaft Bearing Set
(1)	260-1466	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	6695MA	Main Bearing Set	(1)	260-1210	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	E-470KC	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(4)	H529P	Cast Piston	(1)	7011MA	Main Bearing Set
(6)	H562CP	Cast Piston	(8)	536NP	Cast Piston	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	E-446K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	224-41972	Oil Pump	(6)	H497P	Cast Piston
(1)	224-4152	Oil Pump	(1)	224-43469	Oil Pump	(1)	381-8062	Brass Expansion Plug Kit	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	224-41972	Oil Pump	(1)	224-41101	Oil Pump
<b>BKP-6021</b>			<b>BKP-6078</b>			<b>BKP-6108</b>			<b>BKP-6125</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1205	Gasket Kit	(1)	1843M	Camshaft Bearing Set
(1)	260-1233	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	6695MA	Main Bearing Set	(1)	260-1210	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	E-470KC	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(4)	H529P	Cast Piston	(1)	7011MA	Main Bearing Set
(6)	H561CP	Cast Piston	(8)	536NP	Cast Piston	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	E-446K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	224-41972	Oil Pump	(6)	H497P	Cast Piston
(1)	224-4152	Oil Pump	(1)	224-43469	Oil Pump	(1)	381-8062	Brass Expansion Plug Kit	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	224-41972	Oil Pump	(1)	224-41101	Oil Pump
<b>BKP-6021</b>			<b>BKP-6078</b>			<b>BKP-6108</b>			<b>BKP-6125</b>		
(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1205	Gasket Kit	(1)	1843M	Camshaft Bearing Set
(1)	260-1233	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	6695MA	Main Bearing Set	(1)	260-1210	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	E-470KC	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(1)	E-605K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(4)	H529P	Cast Piston	(1)	7011MA	Main Bearing Set
(6)	H561CP	Cast Piston	(8)	536NP	Cast Piston	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	E-446K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	224-41972	Oil Pump	(6)	H497P	Cast Piston
(1)	224-4152	Oil Pump	(1)	224-43469	Oil Pump	(1)	381-8062	Brass Expansion Plug Kit	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	224-41972	Oil Pump	(1)	224-41101	Oil Pump

(cont'd. next column)

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>BKP-6134</b>			<b>BKP-6159</b> (cont'd.)			<b>BKP-6193</b>			<b>BKP-6210</b>		
(1)	1886M	Camshaft Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	260-1616	Gasket Kit
(1)	260-1442	Gasket Kit	(1)	224-41118	Oil Pump	(1)	260-1424	Gasket Kit	(1)	6678MA	Main Bearing Set
(1)	7295MA	Main Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	4289M	Main Bearing Set	(1)	E-454K	Premium Piston Ring Set
(1)	E-471K	Premium Piston Ring Set	<b>BKP-6160</b>			(1)	E-234K	Premium Piston Ring Set	(4)	571CP	Cast Piston
(6)	H523CP	Cast Piston	(1)	1204M	Camshaft Bearing Set	(6)	677CP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1720	Gasket Kit	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump
(1)	224-43567	Oil Pump	(1)	4125MA	Main Bearing Set	(1)	224-41198	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit
(1)	381-8053	Brass Expansion Plug Kit	(1)	E-458K	Premium Piston Ring Set	<b>BKP-6197</b>			<b>BKP-6218</b>		
<b>BKP-6135</b>			(8)	506P	Cast Piston	(1)	1244M	Camshaft Bearing Set	(1)	260-1426	Gasket Kit
(1)	1886M	Camshaft Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1193	Gasket Kit	(1)	6678MA	Main Bearing Set
(1)	260-1444	Gasket Kit	(1)	224-41118	Oil Pump	(1)	4289M	Main Bearing Set	(1)	E-453K	Premium Piston Ring Set
(1)	7295MA	Main Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-222K	Premium Piston Ring Set	(4)	H579P	Cast Piston
(1)	E-471K	Premium Piston Ring Set	<b>BKP-6163</b>			(1)	470AP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set
(6)	H523CP	Cast Piston	(1)	1204M	Camshaft Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1720	Gasket Kit	(1)	224-41198	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit
(1)	224-43567	Oil Pump	(1)	4125MA	Main Bearing Set	<b>BKP-6199</b>			<b>BKP-6219</b>		
(1)	381-8053	Brass Expansion Plug Kit	(1)	E-458K	Premium Piston Ring Set	(1)	260-1425	Gasket Kit	(1)	260-1549	Gasket Kit
<b>BKP-6138</b>			(8)	H606P	Cast Piston	(1)	6678MA	Main Bearing Set	(1)	6678MA	Main Bearing Set
(1)	1886M	Camshaft Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-453K	Premium Piston Ring Set
(1)	260-1612	Gasket Kit	(1)	224-41118	Oil Pump	(6)	527P	Cast Piston	(4)	H579P	Cast Piston
(1)	7086MA	Main Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	E-471K	Premium Piston Ring Set	<b>BKP-6164</b>			(1)	224-4168	Oil Pump	(1)	224-4168	Oil Pump
(6)	H675CP	Cast Piston	(1)	1204M	Camshaft Bearing Set	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8050	Brass Expansion Plug Kit
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1720	Gasket Kit	<b>BKP-6200</b>			<b>BKP-6233</b>		
(1)	224-43567	Oil Pump	(1)	4125MA	Main Bearing Set	(1)	260-1616	Gasket Kit	(1)	1790M	Camshaft Bearing Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	6678MA	Main Bearing Set	(1)	260-1429	Gasket Kit
<b>BKP-6150</b>			(8)	H654P	Cast Piston	(1)	E-454K	Premium Piston Ring Set	(1)	7050MA	Main Bearing Set
(1)	1781M	Camshaft Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(4)	527P	Cast Piston	(1)	E-536K	Premium Piston Ring Set
(1)	260-1420	Gasket Kit	(1)	224-41118	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(6)	656P	Cast Piston
(1)	4916M	Main Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	224-4168	Oil Pump	(1)	6-1460A	Connecting Rod Bearing Set
(1)	E-229K	Premium Piston Ring Set	<b>BKP-6167</b>			(1)	381-8050	Brass Expansion Plug Kit	(1)	224-4166	Oil Pump
(6)	H519P	Cast Piston	(1)	1204M	Camshaft Bearing Set	<b>BKP-6201</b>			(1)	381-8061	Brass Expansion Plug Kit
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	260-1446	Gasket Kit	(1)	260-1427	Gasket Kit	<b>BKP-6237</b>		
(1)	224-41124	Oil Pump	(1)	5078MA	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	381-8071	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set	(1)	260-1430	Gasket Kit
<b>BKP-6154</b>			(8)	H653CP	Cast Piston	(1)	6678MA	Main Bearing Set	(1)	5095MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	260-1559	Gasket Kit	(1)	224-41143	Oil Pump	(4)	527P	Cast Piston	(8)	526P	Cast Piston
(1)	4125MA	Main Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-1230CP	Connecting Rod Bearing Set
(1)	E-251K	Premium Piston Ring Set	<b>BKP-6173</b>			(1)	224-4168	Oil Pump	(1)	224-4166	Oil Pump
(8)	H654P	Cast Piston	(1)	1414M	Camshaft Bearing Set	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1453	Gasket Kit	<b>BKP-6206</b>			<b>BKP-6254</b>		
(1)	224-41118	Oil Pump	(1)	4907M	Main Bearing Set	(1)	260-1426	Gasket Kit	(1)	260-1432	Gasket Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	E-296K	Premium Piston Ring Set	(1)	6678MA	Main Bearing Set	(1)	7090M	Main Bearing Set
<b>BKP-6155</b>			(1)	E-296K	Premium Piston Ring Set	(1)	E-453K	Premium Piston Ring Set	(1)	5095MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(8)	H582CP	Cast Piston	(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	260-1559	Gasket Kit	(1)	8-3360CPA	Connecting Rod Bearing Set	(4)	527P	Cast Piston	(8)	526P	Cast Piston
(1)	4125MA	Main Bearing Set	(1)	224-41144	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-1230CP	Connecting Rod Bearing Set
(1)	E-458K	Premium Piston Ring Set	(1)	381-8018	Brass Expansion Plug Kit	(1)	224-4168	Oil Pump	(1)	224-42000	Oil Pump
(8)	517CP	Cast Piston	<b>BKP-6178</b>			(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8090	Brass Expansion Plug Kit
(1)	8-2600A	Connecting Rod Bearing Set	(1)	1467M	Camshaft Bearing Set	<b>BKP-6208</b>			<b>BKP-6256</b>		
(1)	224-41118	Oil Pump	(1)	260-1673	Gasket Kit	(1)	260-1425	Gasket Kit	(1)	260-1432	Gasket Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	4907M	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	7090M	Main Bearing Set
<b>BKP-6158</b>			(1)	E-509K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	(8)	H651CP	Cast Piston	(4)	571CP	Cast Piston	(6)	H834CP	Cast Piston
(1)	260-1445	Gasket Kit	(1)	8-3810CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set
(1)	4125MA	Main Bearing Set	(1)	224-41999	Oil Pump	(1)	224-4168	Oil Pump	(1)	224-43653	Oil Pump
(1)	E-458K	Premium Piston Ring Set	(1)	381-8056	Brass Expansion Plug Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8090	Brass Expansion Plug Kit
(8)	H606P	Cast Piston	<b>BKP-6187</b>			<b>BKP-6209</b>			<b>BKP-6279</b>		
(1)	8-2600A	Connecting Rod Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	260-1427	Gasket Kit	(1)	260-1767	Gasket Kit
(1)	224-41118	Oil Pump	(1)	260-1192	Gasket Kit	(1)	6678MA	Main Bearing Set	(1)	6631M	Main Bearing Set
(1)	381-8015	Brass Expansion Plug Kit	(1)	6676M	Main Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-616KC	Premium Piston Ring Set
<b>BKP-6159</b>			(1)	E-450K	Premium Piston Ring Set	(4)	571CP	Cast Piston	(4)	13015P	Cast Piston
(1)	1204M	Camshaft Bearing Set	(4)	525CP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3570CPB	Connecting Rod Bearing Set
(1)	260-1445	Gasket Kit	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump	(1)	224-43413	Oil Pump
(1)	4125MA	Main Bearing Set	(1)	224-41198	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8101	Brass Expansion Plug Kit
(1)	E-458K	Premium Piston Ring Set	(1)	381-8086	Brass Expansion Plug Kit	(cont'd. next column)					
(8)	506P	Cast Piston									

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>BKP-6281</b>			<b>KS2-2743B</b> (cont'd.)			<b>MK-101E</b> (cont'd.)			<b>MK-101M</b> (cont'd.)		
(1)	260-1768	Gasket Kit	(6)	4205CP	Connecting Rod Bearing Pair	(1)	1445M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit
(1)	7320M	Main Bearing Set	(1)	7216M	Main Bearing Set	(1)	KC-642	Cam & Lifter Kit	(1)	4261M	Main Bearing Set
(1)	E-617K	Premium Piston Ring Set	(1)	260-1527	Gasket Kit	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	1445M	Camshaft Bearing Set
(4)	13508P	Cast Piston	<b>MK-1002A</b>			(1)	224-41177	Oil Pump	(1)	KC-643	Cam & Lifter Kit
(1)	4-4595P	Connecting Rod Bearing Set				(1)	E-458X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
(1)	224-41996	Oil Pump	(1)	8-2600A	Connecting Rod Bearing Set	<b>MK-101F</b>			(1)	224-41173	Oil Pump
(1)	381-8102	Brass Expansion Plug Kit	(1)	260-1169	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
<b>BKP-6290</b>			(1)	4125MA	Main Bearing Set	(1)	8-3230CP	Connecting Rod Bearing Set	<b>MK-1010A</b>		
(1)	260-1766	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	E-450X	Standard Piston Ring Set
(1)	6692M	Main Bearing Set	(1)	KC-668	Cam & Lifter Kit	(1)	4261M	Main Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	E-542KC	Premium Piston Ring Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	1445M	Camshaft Bearing Set	(1)	260-1231	Gasket Kit
(4)	636P	Cast Piston	(1)	224-41118	Oil Pump	(1)	KC-643	Cam & Lifter Kit	(1)	4123MA	Main Bearing Set
(1)	4-3975P	Connecting Rod Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	1202M	Camshaft Bearing Set
(1)	224-41995	Oil Pump	<b>MK-1003A</b>			(1)	224-41173	Oil Pump	(1)	KC-708A	Cam & Lifter Kit
(1)	381-8100	Brass Expansion Plug Kit				(1)	E-296X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
<b>BKP-6301</b>			(1)	8-3360CPA	Connecting Rod Bearing Set	<b>MK-101G</b>			(1)	224-4147	Oil Pump
(1)	260-1839	Gasket Kit	(1)	260-1223	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	(1)	381-8006	Brass Expansion Plug Kit
(1)	7090M	Main Bearing Set	(1)	4907M	Main Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	<b>MK-1011B</b>		
(1)	E-528KC	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	E-432X	Standard Piston Ring Set
(6)	H834CP	Cast Piston	(1)	KC-648	Cam & Lifter Kit	(1)	4020M	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	6-1735CP	Connecting Rod Bearing Set	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	1445M	Camshaft Bearing Set	(1)	260-1232	Gasket Kit
(1)	224-43653	Oil Pump	(1)	224-41144	Oil Pump	(1)	KC-169	Cam & Lifter Kit	(1)	7242MA	Main Bearing Set
(1)	381-8090	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	1492M	Camshaft Bearing Set
<b>BKP-6303</b>			<b>MK-1007A</b>			(1)	224-41173	Oil Pump	(1)	KC-1539	Cam & Lifter Kit
(1)	260-1763	Gasket Kit				(1)	E-384X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
(1)	7257M	Main Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	<b>MK-101H</b>			(1)	224-4148	Oil Pump
(1)	E-561KC	Premium Piston Ring Set	(1)	260-1228	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	(1)	381-8046	Brass Expansion Plug Kit
(4)	13506P	Cast Piston	(1)	6689MA	Main Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	<b>MK-1011C</b>		
(1)	4-66780CP	Connecting Rod Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set
(1)	224-43622	Oil Pump	(1)	KC-782	Cam & Lifter Kit	(1)	4020M	Main Bearing Set	(1)	260-1232	Gasket Kit
(1)	381-8094	Brass Expansion Plug Kit	(1)	221-2542LS	Timing Gear Set	(1)	1445M	Camshaft Bearing Set	(1)	7242MA	Main Bearing Set
<b>BKP-6312</b>			(1)	224-41239	Oil Pump	(1)	KC-169	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set
(1)	260-1784	Gasket Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit
(1)	7099M	Main Bearing Set	<b>MK-1008A</b>			(1)	224-41177	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.
(1)	E-558KC	Premium Piston Ring Set				(1)	E-384X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
(6)	H832CP	Cast Piston	(1)	4-2500RAA	Connecting Rod Bearing Set	<b>MK-101J</b>			(1)	381-8046	Brass Expansion Plug Kit
(1)	6-1845CP	Connecting Rod Bearing Set	(1)	260-1229	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	<b>MK-1012E</b>		
(1)	224-41950	Oil Pump	(1)	6690MA	Main Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	E-478X	Standard Piston Ring Set
(1)	381-8092	Brass Expansion Plug Kit	(1)	1756M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set
<b>BKP-6313</b>			(1)	KC-781	Cam & Lifter Kit	(1)	4020M	Main Bearing Set	(1)	260-1233	Gasket Kit
(1)	260-1499	Gasket Kit	(1)	221-2544S	Timing Gear Set	(1)	1445M	Camshaft Bearing Set	(1)	7242MA	Main Bearing Set
(1)	7116MA	Main Bearing Set	(1)	224-41239	Oil Pump	(1)	KC-443	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set
(1)	E-511KC	Premium Piston Ring Set	(1)	381-8074	Brass Expansion Plug Kit	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit
(4)	12895P	Cast Piston	<b>MK-1009A</b>			(1)	224-41177	Oil Pump	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	4-1610CP	Connecting Rod Bearing Set				(1)	E-450X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
(1)	224-41936	Oil Pump	(1)	4-2020CP	Connecting Rod Bearing Set	<b>MK-101K</b>			(1)	381-8046	Brass Expansion Plug Kit
(1)	381-8096	Brass Expansion Plug Kit	(1)	260-1230	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	<b>MK-1015D</b>		
<b>BKP-6314</b>			(1)	4123MA	Main Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	E-369X	Standard Piston Ring Set
(1)	260-1502	Gasket Kit	(1)	1202M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set
(1)	6622MA	Main Bearing Set	(1)	KC-708A	Cam & Lifter Kit	(1)	4020M	Main Bearing Set	(1)	260-1236	Gasket Kit
(1)	E-523KC	Premium Piston Ring Set	(1)	221-2525S	Timing Gear Set	(1)	1445M	Camshaft Bearing Set	(1)	7144MA	Main Bearing Set
(4)	H833CP	Cast Piston	(1)	224-4147	Oil Pump	(1)	KC-443	Cam & Lifter Kit	(1)	1755M	Camshaft Bearing Set
(1)	4-3895RA	Connecting Rod Bearing Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KC-813	Cam & Lifter Kit
(1)	224-41948	Oil Pump	<b>MK-101C</b>			(1)	224-41177	Oil Pump	(1)	KT3-359SA2	Timing Set - 3 Pc.
(1)	381-8091	Brass Expansion Plug Kit				(1)	E-180X	Standard Piston Ring Set	(1)	381-8017	Brass Expansion Plug Kit
<b>BKP-6328</b>			(1)	8-3230CP	Connecting Rod Bearing Set	<b>MK-101L</b>			<b>MK-1019A</b>		
(1)	260-1503	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	(1)	E-459X	Standard Piston Ring Set
(1)	7148M	Main Bearing Set	(1)	4261M	Main Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-1020A	Connecting Rod Bearing Set
(1)	E-510KC	Premium Piston Ring Set	(1)	1445M	Camshaft Bearing Set	(1)	260-1035	Gasket Kit	(1)	260-1239	Gasket Kit
(4)	12886CP	Cast Piston	(1)	KC-643	Cam & Lifter Kit	(1)	4261M	Main Bearing Set	(1)	5085MA	Main Bearing Set
(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	1445M	Camshaft Bearing Set	(1)	1791M	Camshaft Bearing Set
(1)	224-41940	Oil Pump	(1)	224-41177	Oil Pump	(1)	KC-443	Cam & Lifter Kit	(1)	KC-756	Cam & Lifter Kit
(1)	381-8042	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
<b>KS2-2743B</b>			(1)	8-3230CP	Connecting Rod Bearing Set	<b>MK-101M</b>			(1)	224-4146	Oil Pump
(6)	2743PN	Cast Piston	(1)	260-1035	Gasket Kit	(1)	E-180X	Standard Piston Ring Set	(1)	381-8049	Brass Expansion Plug Kit
(6)	E-623KC	Premium Piston Ring Set	(1)	4261M	Main Bearing Set	(1)	8-3230CP	Connecting Rod Bearing Set	<b>MK-102A</b>		
(cont'd. next column)			(1)	260-1035	Gasket Kit	(cont'd. next column)			(1)	E-196X	Standard Piston Ring Set
(cont'd. next column)			(1)	4261M	Main Bearing Set	(cont'd. next column)			(cont'd. next page)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-102A</b> (cont'd.)			<b>MK-1026E</b>			<b>MK-1036A</b>			<b>MK-105D</b>		
(1)	6-2375CP	Connecting Rod Bearing Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set	(1)	E-197X	Standard Piston Ring Set
(1)	260-1004	Gasket Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	4092M	Main Bearing Set	(1)	260-1246	Gasket Kit	(1)	260-1267	Gasket Kit	(1)	260-1002	Gasket Kit
(1)	1454M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4222M	Main Bearing Set
(1)	KC-380	Cam & Lifter Kit	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1439M	Camshaft Bearing Set
(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KC-711	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	KC-261	Cam & Lifter Kit
(1)	224-4165C	Oil Pump	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	381-8012	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-41146	Oil Pump
(1)			(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8013	Brass Expansion Plug Kit
<b>MK-1020A</b>			<b>MK-1026G</b>			<b>MK-1037A</b>			<b>MK-105G</b>		
(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-197X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1268	Gasket Kit	(1)	260-1002	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4222M	Main Bearing Set
(1)	1791M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1439M	Camshaft Bearing Set
(1)	KC-756	Cam & Lifter Kit	(1)	KC-793	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-448	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41146	Oil Pump
(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8013	Brass Expansion Plug Kit
<b>MK-1021A</b>			<b>MK-1027A</b>			<b>MK-1037C</b>			<b>MK-106A</b>		
(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	260-1268	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1791M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set
(1)	KC-783	Cam & Lifter Kit	(1)	KC-793	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1023A</b>			<b>MK-1027C</b>			<b>MK-1038A</b>			<b>MK-106C</b>		
(1)	E-356X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1244	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-766	Cam & Lifter Kit	(1)	KC-808	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1024C</b>			<b>MK-103A</b>			<b>MK-1038C</b>			<b>MK-106D</b>		
(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(6)	2555A	Connecting Rod Bearing Pair
(1)	260-1243	Gasket Kit	(1)	260-1004	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	5070M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1454M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set
(1)	KC-766	Cam & Lifter Kit	(1)	KC-380	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4165C	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1024D</b>			<b>MK-103C</b>			<b>MK-1038D</b>			<b>MK-106E</b>		
(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(6)	2555A	Connecting Rod Bearing Pair
(1)	260-1243	Gasket Kit	(1)	260-1004	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	5070M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-711	Cam & Lifter Kit	(1)	KC-380	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KT3-4SR46	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4165C	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1026A</b>			<b>MK-1033A</b>			<b>MK-104A</b>			<b>MK-107A</b>		
(1)	E-356X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1246	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1044	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	5070M	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-766	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-709	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4165C	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-1114C</b> (cont'd.)			<b>MK-1121C</b> (cont'd.)			<b>MK-1135A</b> (cont'd.)			<b>MK-114F</b> (cont'd.)		
(1)	1886M	Camshaft Bearing Set	(1)	260-1451	Gasket Kit	(1)	260-1462	Gasket Kit	(1)	4124MA	Main Bearing Set
(1)	KC-860	Cam & Lifter Kit	(1)	4125MA	Main Bearing Set	(1)	6690MA	Main Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	1204M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	KC-633	Cam & Lifter Kit
(1)	224-43567	Oil Pump	(1)	KC-668	Cam & Lifter Kit	(1)	KC-781	Cam & Lifter Kit	(1)	221-2540S	Timing Gear Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	221-2544S	Timing Gear Set	(1)	224-4147	Oil Pump
<b>MK-1115A</b>			<b>MK-1124A</b>			<b>MK-1136A</b>			<b>MK-114G</b>		
(1)	E-458X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1445	Gasket Kit	(1)	260-1452	Gasket Kit	(1)	260-1463	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	4907M	Main Bearing Set	(1)	6690MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-760	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KC-781	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	221-2544S	Timing Gear Set	(1)	221-2540S	Timing Gear Set
(1)	224-41118	Oil Pump	(1)	224-41144	Oil Pump	(1)	381-8074	Brass Expansion Plug Kit	(1)	224-4147	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit				(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1116A</b>			<b>MK-1124A</b>			<b>MK-1138A</b>			<b>MK-1148A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(1)	260-1446	Gasket Kit	(1)	260-1453	Gasket Kit	(1)	260-1465	Gasket Kit	(1)	260-1477	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	4907M	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set
(1)	KC-764	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KC-813	Cam & Lifter Kit	(1)	KC-758	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	KT3-359SA2	Timing Set - 3 Pc.	(1)	KT3-498SA3	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	224-41144	Oil Pump	(1)	381-8073	Brass Expansion Plug Kit	(1)	224-41203	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit				(1)	381-8020	Brass Expansion Plug Kit
<b>MK-112C</b>			<b>MK-1132C</b>			<b>MK-114A</b>			<b>MK-1148D</b>		
(1)	E-229X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1477	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	1450M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-660	Cam & Lifter Kit	(1)	221-2525S	Timing Gear Set	(1)	KC-850	Cam & Lifter Kit
(1)	221-2750LS	Timing Gear Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	224-4147	Oil Pump	(1)	KT3-498SA3	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	224-4154	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit	(1)	224-41203	Oil Pump
(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit				(1)	381-8020	Brass Expansion Plug Kit
<b>MK-112E</b>			<b>MK-1132C</b>			<b>MK-114C</b>			<b>MK-1149C</b>		
(1)	E-229X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1479	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1450M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit
(1)	221-2764S	Timing Gear Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	224-4154	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit				(1)	381-8007	Brass Expansion Plug Kit
<b>MK-1120A</b>			<b>MK-1131A</b>			<b>MK-114D</b>			<b>MK-115A</b>		
(1)	E-446X	Standard Piston Ring Set	(1)	E-531X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1222	Gasket Kit	(1)	260-1227	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit
(1)	7011MA	Main Bearing Set	(1)	7047MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1843M	Camshaft Bearing Set	(1)	1485M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-787	Cam & Lifter Kit	(1)	KC-811	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	1557M	Camshaft Bearing Set
(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-370S	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	KC-677	Cam & Lifter Kit
(1)	224-41101	Oil Pump	(1)	224-4151	Oil Pump	(1)	224-4147	Oil Pump	(1)	221-2540S	Timing Gear Set
(1)	381-8072	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit				(1)	224-4147	Oil Pump
<b>MK-1121A</b>			<b>MK-1134A</b>			<b>MK-114E</b>			<b>MK-115E</b>		
(1)	E-458X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1451	Gasket Kit	(1)	260-1464	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	6689MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	KC-782	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	221-2542LS	Timing Gear Set	(1)	221-2525S	Timing Gear Set	(1)	221-2540S	Timing Gear Set
(1)	224-41118	Oil Pump	(1)	381-8074	Brass Expansion Plug Kit	(1)	224-4147	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit							(1)	381-8006	Brass Expansion Plug Kit
<b>MK-1121C</b>			<b>MK-1135A</b>			<b>MK-114F</b>			<b>MK-1151A</b>		
(1)	E-458X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-377X	Standard Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set			
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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
(1)	<b>8-2555A</b>	Connecting Rod Bearing Set	(1)	<b>E-240X</b>	Standard Piston Ring Set	(1)	<b>4979M</b>	Main Bearing Set	(1)	<b>8-2555A</b>	Connecting Rod Bearing Set
(1)	<b>260-1478</b>	Gasket Kit	(1)	<b>8-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>1443M</b>	Camshaft Bearing Set	(1)	<b>260-1000</b>	Gasket Kit
(1)	<b>4663MA</b>	Main Bearing Set	(1)	<b>260-1010</b>	Gasket Kit	(1)	<b>1460M</b>	Auxiliary Shaft Bearing Set	(1)	<b>4663MA</b>	Main Bearing Set
(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>5037M</b>	Main Bearing Set	(1)	<b>KC-767C</b>	Cam, Lifter & Follower Kit	(1)	<b>1235M</b>	Camshaft Bearing Set
(1)	<b>KC-808</b>	Cam & Lifter Kit	(1)	<b>1401M</b>	Camshaft Bearing Set	(1)	<b>222-14</b>	Timing Belt	(1)	<b>KC-274</b>	Cam & Lifter Kit
(1)	<b>KT3-499SA3</b>	Timing Set - 3 Pc.	(1)	<b>KC-646</b>	Cam & Lifter Kit	(1)	<b>224-41160</b>	Oil Pump	(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.
(1)	<b>224-4146A</b>	Oil Pump	(1)	<b>KT3-369S</b>	Timing Set - 3 Pc.	(1)	<b>381-8029</b>	Brass Expansion Plug Kit	(1)	<b>224-4146</b>	Oil Pump
(1)	<b>381-8059</b>	Brass Expansion Plug Kit	(1)	<b>224-51285</b>	Oil Pump Repair Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit
(1)	<b>E-377X</b>	Standard Piston Ring Set	(1)	<b>E-240X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-454X</b>	Standard Piston Ring Set
(1)	<b>8-2555A</b>	Connecting Rod Bearing Set	(1)	<b>8-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set
(1)	<b>260-1268</b>	Gasket Kit	(1)	<b>260-1010</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1616</b>	Gasket Kit
(1)	<b>4663MA</b>	Main Bearing Set	(1)	<b>5037M</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>6678MA</b>	Main Bearing Set
(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1401M</b>	Camshaft Bearing Set	(1)	<b>1145M</b>	Camshaft Bearing Set	(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set
(1)	<b>KC-766</b>	Cam & Lifter Kit	(1)	<b>KC-646</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-785</b>	Cam & Lifter Kit
(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-369S</b>	Timing Set - 3 Pc.	(1)	<b>224-4146</b>	Oil Pump	(1)	<b>222-153</b>	Timing Belt
(1)	<b>224-4146A</b>	Oil Pump	(1)	<b>224-51285</b>	Oil Pump Repair Kit	(1)	<b>381-8007</b>	Brass Expansion Plug Kit	(1)	<b>224-4168</b>	Oil Pump
(1)	<b>381-8059</b>	Brass Expansion Plug Kit	(1)	<b>381-8001</b>	Brass Expansion Plug Kit	(1)					
(1)	<b>E-384X</b>	Standard Piston Ring Set	(1)	<b>E-510X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set
(1)	<b>4-2500RAA</b>	Connecting Rod Bearing Set	(1)	<b>4-3960CPA</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>8-1555CPA</b>	Connecting Rod Bearing Set
(1)	<b>260-1482</b>	Gasket Kit	(1)	<b>260-1503</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1025</b>	Gasket Kit
(1)	<b>6689MA</b>	Main Bearing Set	(1)	<b>7148M</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>4040M</b>	Main Bearing Set
(1)	<b>1461M</b>	Camshaft Bearing Set	(1)	<b>67333AF</b>	Thrust Washer Set	(1)	<b>1145M</b>	Camshaft Bearing Set	(1)	<b>1220M</b>	Camshaft Bearing Set
(1)	<b>KC-782</b>	Cam & Lifter Kit	(1)	<b>CS-719</b>	Camshaft	(1)	<b>KC-273</b>	Cam & Lifter Kit	(1)	<b>KC-641</b>	Cam & Lifter Kit
(1)	<b>221-2542LS</b>	Timing Gear Set	(1)	<b>KT-1028S</b>	Timing Set - Complete	(1)	<b>KT3-489S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-350S</b>	Timing Set - 3 Pc.
(1)	<b>224-41239</b>	Oil Pump	(1)	<b>224-41940</b>	Oil Pump	(1)	<b>224-4146</b>	Oil Pump	(1)	<b>224-43364S</b>	Oil Pump
(1)	<b>381-8074</b>	Brass Expansion Plug Kit	(1)	<b>381-8042</b>	Brass Expansion Plug Kit	(1)	<b>381-8007</b>	Brass Expansion Plug Kit	(1)	<b>381-8021</b>	Brass Expansion Plug Kit
(1)	<b>E-377X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set
(1)	<b>8-2555A</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>8-1555CPA</b>	Connecting Rod Bearing Set
(1)	<b>260-1269</b>	Gasket Kit	(1)	<b>260-1233</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1025</b>	Gasket Kit
(1)	<b>4663MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>4040M</b>	Main Bearing Set
(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1220M</b>	Camshaft Bearing Set
(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-690C</b>	Cam & Lifter Kit
(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-489S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-350S</b>	Timing Set - 3 Pc.
(1)	<b>224-4146</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>224-4146</b>	Oil Pump	(1)	<b>224-43364S</b>	Oil Pump
(1)	<b>381-8059</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit	(1)	<b>381-8021</b>	Brass Expansion Plug Kit
(1)	<b>E-377X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-446X</b>	Standard Piston Ring Set
(1)	<b>8-2555A</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>6-1220RA</b>	Connecting Rod Bearing Set
(1)	<b>260-1269</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1556</b>	Gasket Kit
(1)	<b>4663MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>7011MA</b>	Main Bearing Set
(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1843M</b>	Camshaft Bearing Set
(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-787</b>	Cam & Lifter Kit
(1)	<b>KT3-4SR46</b>	Timing Set - 3 Pc.	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-489S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-374S</b>	Timing Set - 3 Pc.
(1)	<b>224-4146</b>	Oil Pump	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(1)	<b>224-4149</b>	Oil Pump	(1)	<b>381-8072</b>	Brass Expansion Plug Kit
(1)	<b>381-8059</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit			
(1)	<b>E-377X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-458X</b>	Standard Piston Ring Set
(1)	<b>8-2555A</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2600A</b>	Connecting Rod Bearing Set
(1)	<b>260-1269</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1559</b>	Gasket Kit
(1)	<b>4663MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>4125MA</b>	Main Bearing Set
(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1204M</b>	Camshaft Bearing Set
(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>KC-668</b>	Cam & Lifter Kit
(1)	<b>KT3-163S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-163SA1</b>	Timing Set - 3 Pc.
(1)	<b>224-4146</b>	Oil Pump	(1)	<b>224-4152</b>	Oil Pump	(1)	<b>224-4146</b>	Oil Pump	(1)	<b>224-41118</b>	Oil Pump
(1)	<b>381-8059</b>	Brass Expansion Plug Kit	(1)	<b>381-8085</b>	Brass Expansion Plug Kit	(1)	<b>381-8007</b>	Brass Expansion Plug Kit	(1)	<b>381-8015</b>	Brass Expansion Plug Kit
(1)	<b>E-234X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-384X</b>	Standard Piston Ring Set
(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(4)	<b>2500RAA</b>	Connecting Rod Bearing Pair
(1)	<b>260-1037</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1563</b>	Gasket Kit
(1)	<b>4124MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>6689MA</b>	Main Bearing Set
(1)	<b>1557M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set	(1)	<b>1461M</b>	Camshaft Bearing Set
(1)	<b>KC-677</b>	Cam & Lifter Kit	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit	(1)	<b>381-8074</b>	Brass Expansion Plug Kit
(1)	<b>221-2540S</b>	Timing Gear Set	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.			
(1)	<b>224-4147</b>	Oil Pump	(1)			(1)	<b>224-4149</b>	Oil Pump			
(1)	<b>381-8006</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit			
(1)	<b>E-240X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-251X</b>	Standard Piston Ring Set
(1)	<b>8-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set
(1)	<b>260-1010</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit	(1)	<b>260-1033</b>	Gasket Kit
(1)	<b>5037M</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set	(1)	<b>4999MA</b>	Main Bearing Set
(1)	<b>1401M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set			
(1)	<b>KC-646</b>	Cam & Lifter Kit	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit			
(1)	<b>KT3-369S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.			
(1)	<b>224-51285</b>	Oil Pump Repair Kit	(1)			(1)	<b>224-4149</b>	Oil Pump			
(1)	<b>381-8001</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit			
(1)	<b>E-240X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set
(1)	<b>8-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set			
(1)	<b>260-1010</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit			
(1)	<b>5037M</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set			
(1)	<b>1401M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set			
(1)	<b>KC-646</b>	Cam & Lifter Kit	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit			
(1)	<b>KT3-369S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-499S</b>	Timing Set - 3 Pc.			
(1)	<b>224-51285</b>	Oil Pump Repair Kit	(1)			(1)	<b>224-4149</b>	Oil Pump			
(1)	<b>381-8001</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit			
(1)	<b>E-510X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>	Standard Piston Ring Set
(1)	<b>4-3960CPA</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>8-2020CP</b>	Connecting Rod Bearing Set			
(1)	<b>260-1503</b>	Gasket Kit	(1)	<b>260-1466</b>	Gasket Kit	(1)	<b>260-1000</b>	Gasket Kit			
(1)	<b>7148M</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>994M</b>	Main Bearing Set			
(1)	<b>67333AF</b>	Thrust Washer Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1235M</b>	Camshaft Bearing Set			
(1)	<b>CS-719</b>	Camshaft	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>KC-274</b>	Cam & Lifter Kit			
(1)	<b>KT-1028S</b>	Timing Set - Complete	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-489S</b>	Timing Set - 3 Pc.			
(1)	<b>224-41940</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>224-4146</b>	Oil Pump			
(1)	<b>381-8042</b>	Brass Expansion Plug Kit	(1)			(1)	<b>381-8007</b>	Brass Expansion Plug Kit			
(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-605X</b>	Standard Piston Ring Set	(1)	<b>E-245X</b>				

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-122C</b> (cont'd.)			<b>MK-125C</b> (cont'd.)			<b>MK-127C</b> (cont'd.)			<b>MK-132G</b> (cont'd.)		
(1)	1484M	Camshaft Bearing Set	(1)	260-1028	Gasket Kit	(1)	260-1126	Gasket Kit	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	KC-665	Cam & Lifter Kit	(1)	5107M	Main Bearing Set	(1)	5078MA	Main Bearing Set	(1)	260-1001	Gasket Kit
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	4924MA	Main Bearing Set
(1)	224-4166	Oil Pump	(1)	KC-674	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	1453M	Camshaft Bearing Set
(1)	381-8010	Brass Expansion Plug Kit	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-327	Cam & Lifter Kit
<b>MK-124C</b>			<b>MK-1251A</b>			<b>MK-127D</b>			<b>MK-132H</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit	(1)	260-1126	Gasket Kit	(1)	260-1001	Gasket Kit
(1)	4925M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	5078MA	Main Bearing Set	(1)	5025MA	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-661	Cam & Lifter Kit
(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-163SA	Timing Set - 3 Pc.	(1)	KT3-168S	Timing Set - 3 Pc.
(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-41143	Oil Pump	(1)	224-4174	Oil Pump
(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit
<b>MK-124D</b>			<b>MK-1251C</b>			<b>MK-130C</b>			<b>MK-1329A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-528X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1432	Gasket Kit
(1)	4925M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	7090M	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1736AF	Thrust Washer Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-864	Cam & Lifter Kit
(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-865	Cam & Lifter Kit
(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump	(1)	222-139	Timing Belt
(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	224-42000	Oil Pump
<b>MK-124G</b>			<b>MK-1253A</b>			<b>MK-130F</b>			<b>MK-133A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1559	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1124	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-707	Cam & Lifter Kit
(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	KT3-498SA3	Timing Set - 3 Pc.
(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41203	Oil Pump
(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8020	Brass Expansion Plug Kit
<b>MK-124J</b>			<b>MK-1263A</b>			<b>MK-132A</b>			<b>MK-134A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-613X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1652	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	7245MA	Main Bearing Set	(1)	4924MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-1511	Cam & Lifter Kit	(1)	KC-327A	Cam & Lifter Kit	(1)	KC-647	Cam & Lifter Kit
(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	KT3-64S	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-124M</b>			<b>MK-1264A</b>			<b>MK-132E</b>			<b>MK-134C</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-613X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1652	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	5107M	Main Bearing Set	(1)	7245MA	Main Bearing Set	(1)	5025MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-1510	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-676	Cam & Lifter Kit
(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-64S	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-41166	Oil Pump	(1)	224-43431	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8016	Brass Expansion Plug Kit	(1)	224-43431	Oil Pump	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-124N</b>			<b>MK-1264A</b>			<b>MK-132E</b>			<b>MK-134C</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-613X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1014	Gasket Kit	(1)	260-1652	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	5107M	Main Bearing Set	(1)	7245MA	Main Bearing Set	(1)	5025MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-667	Cam & Lifter Kit	(1)	KC-1510	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-676	Cam & Lifter Kit
(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-64S	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-41166	Oil Pump	(1)	224-43431	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8016	Brass Expansion Plug Kit	(1)	224-43431	Oil Pump	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-125A</b>			<b>MK-127A</b>			<b>MK-132F</b>			<b>MK-134C</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-288X	Standard Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1028	Gasket Kit	(1)	260-1126	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	5107M	Main Bearing Set	(1)	5107M	Main Bearing Set	(1)	4924MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-676	Cam & Lifter Kit
(1)	KT3-358S	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-168S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	224-41143	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-125C</b>			<b>MK-127C</b>			<b>MK-132G</b>			<b>MK-137D</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-424X	Standard Piston Ring Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next column)		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-167E</b> (cont'd.)			<b>MK-186A</b> (cont'd.)			<b>MK-199E</b> (cont'd.)			<b>MK-2050</b> (cont'd.)		
(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-779	Cam & Lifter Kit
<b>MK-167F</b>			<b>MK-186C</b>			<b>MK-2000</b>			<b>MK-2053</b>		
(1)	E-233X	Standard Piston Ring Set	(1)	E-232X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	KT3-3SR64S	Timing Set - 3 Pc.
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	224-41198	Oil Pump
(1)	260-1001	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	381-8086	Brass Expansion Plug Kit
(1)	4094M	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	260-1466	Gasket Kit	(1)	E-234X	Standard Piston Ring Set
(1)	1453M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	7242MA	Main Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	KC-327A	Cam & Lifter Kit	(1)	KC-636	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set	(1)	260-1424	Gasket Kit
(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	4289M	Main Bearing Set
(1)	224-4174	Oil Pump	(1)	224-4154	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1244M	Camshaft Bearing Set
(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-809	Cam & Lifter Kit
<b>MK-167G</b>			<b>MK-191C</b>			<b>MK-2001</b>			<b>MK-2058</b>		
(1)	E-233X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set
(8)	2320CP	Connecting Rod Bearing Pair	(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	260-1032	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1616	Gasket Kit
(1)	4094M	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	6678MA	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	1462M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1840M	Camshaft Bearing Set
(1)	KC-327A	Cam & Lifter Kit	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	KT3-495S	Timing Set - 3 Pc.	(1)	224-518	Oil Pump Repair Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit
(1)	224-4174	Oil Pump	(1)	381-8035	Brass Expansion Plug Kit	(1)	224-4152	Oil Pump	(1)	222-153	Timing Belt
<b>MK-172A</b>			<b>MK-192A</b>			<b>MK-2002</b>			<b>MK-213A</b>		
(1)	E-261X	Standard Piston Ring Set	(1)	E-414X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-286X	Standard Piston Ring Set
(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-3750P	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	260-1101	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1121	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4923MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-642	Cam & Lifter Kit	(1)	KC-712	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-644	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8049	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-179C</b>			<b>MK-194B</b>			<b>MK-2012</b>			<b>MK-215A</b>		
(1)	E-300X	Standard Piston Ring Set	(1)	E-236X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-301X	Standard Piston Ring Set
(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set
(1)	260-1025	Gasket Kit	(1)	260-1103	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1151	Gasket Kit
(1)	4221M	Main Bearing Set	(1)	4281M	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	5037M	Main Bearing Set
(1)	1220M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1401M	Camshaft Bearing Set
(1)	KC-641	Cam & Lifter Kit	(1)	KC-698	Cam & Lifter Kit	(1)	KC-783	Cam & Lifter Kit	(1)	KC-646	Cam & Lifter Kit
(1)	KT3-350S	Timing Set - 3 Pc.	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499SA6	Timing Set - 3 Pc.	(1)	KT3-369S	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-5128S	Oil Pump Repair Kit
(1)	381-8021	Brass Expansion Plug Kit	(1)	381-8037	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8001	Brass Expansion Plug Kit
<b>MK-183C</b>			<b>MK-195B</b>			<b>MK-2032</b>			<b>MK-216A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-378X	Standard Piston Ring Set	(1)	E-465X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1095	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	260-1134	Gasket Kit
(1)	4999MA	Main Bearing Set	(1)	4281M	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	4289M	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	KC-665	Cam & Lifter Kit	(1)	KC-707	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-41203	Oil Pump	(1)	224-41100	Oil Pump	(1)	224-41198	Oil Pump
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8047	Brass Expansion Plug Kit	(1)	381-8063	Brass Expansion Plug Kit	(1)	381-8000	Brass Expansion Plug Kit
<b>MK-185A</b>			<b>MK-199D</b>			<b>MK-2033</b>			<b>MK-217A</b>		
(1)	E-413X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-446X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1097	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1556	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	7011MA	Main Bearing Set	(1)	4923MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	224-41118	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-43636S	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8072	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-186A</b>			<b>MK-199E</b>			<b>MK-2050</b>			<b>MK-217C</b>		
(1)	E-232X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	4400MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	6676M	Main Bearing Set	(1)	4923MA	Main Bearing Set
(1)	1255M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-636	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)			(1)	KC-645	Cam & Lifter Kit
(1)	224-4154	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)			(1)	KT3-361S	Timing Set - 3 Pc.
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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-217C</b> (cont'd.)			<b>MK-224F</b> (cont'd.)			<b>MK-232A</b>			<b>MK-244C</b>		
(1)	260-1153	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	(1)	E-408X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	5024MA	Main Bearing Set	(1)	260-1149	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	7144MA	Main Bearing Set	(1)	260-1032	Gasket Kit	(1)	260-1154	Gasket Kit
(1)	KC-645	Cam & Lifter Kit	(1)	1462M	Camshaft Bearing Set	(1)	7144MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KC-702	Cam & Lifter Kit	(1)	1462M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	224-4166	Oil Pump	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KC-702	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-518	Oil Pump Repair Kit	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
			(1)	381-8073	Brass Expansion Plug Kit	(1)	224-518	Oil Pump Repair Kit	(1)	224-4166	Oil Pump
						(1)	381-8035	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-218A</b>			<b>MK-227H</b>			<b>MK-233A</b>			<b>MK-247C</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-408X	Standard Piston Ring Set	(1)	E-439X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1143	Gasket Kit	(1)	260-1149	Gasket Kit	(1)	260-1156	Gasket Kit
(1)	5024MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	6618M	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1462M	Camshaft Bearing Set	(1)	CS-769	Camshaft
(1)	KC-645	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-702	Cam & Lifter Kit	(1)	KT-1014S	Timing Set
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KT-1013S	Timing Set - Complete
(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-518	Oil Pump Repair Kit	(1)	224-41914	Oil Pump
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8035	Brass Expansion Plug Kit	(1)	381-8051	Brass Expansion Plug Kit
<b>MK-218C</b>			<b>MK-227K</b>			<b>MK-238C</b>			<b>MK-252A</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-289X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-3320CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1143	Gasket Kit	(1)	260-1150	Gasket Kit	(1)	260-1161	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4664M	Main Bearing Set	(1)	4979M	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	KC-645	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-586	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-498S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-519	Oil Pump Repair Kit	(1)	222-14	Timing Belt
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8003	Brass Expansion Plug Kit	(1)	224-41160	Oil Pump
									(1)	381-8029	Brass Expansion Plug Kit
<b>MK-218D</b>			<b>MK-228K</b>			<b>MK-239A</b>			<b>MK-257A</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1166	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set
(1)	KC-645	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-733	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KT3-365SA	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-51162	Oil Pump Repair Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
<b>MK-218E</b>			<b>MK-228L</b>			<b>MK-239C</b>			<b>MK-258A</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1167	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set
(1)	KC-1556	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-677	Timing Gear Set	(1)	KC-748	Cam & Lifter Kit
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	221-2540S	Timing Gear Set	(1)	KT3-365SA	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-51162	Oil Pump Repair Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	224-4147	Oil Pump	(1)	381-8053	Brass Expansion Plug Kit
<b>MK-218F</b>			<b>MK-228M</b>			<b>MK-239D</b>			<b>MK-260A</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1169	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-1556	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	221-2540S	Timing Gear Set	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-41118	Oil Pump
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
<b>MK-218G</b>			<b>MK-228N</b>			<b>MK-243A</b>			<b>MK-261A</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1170	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	5024MA	Main Bearing Set	(1)	5078MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit
(1)	224-4166	Oil Pump	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-41143	Oil Pump
			(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit			
<b>MK-224F</b>											
(1)	E-369X	Standard Piston Ring Set									

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-6004A</b> (cont'd.)			<b>MK-601F</b>			<b>MK-6010A</b>			<b>MK-602A</b>		
(1)	8-3810CP	Connecting Rod Bearing Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set
(1)	260-1672	Gasket Kit	(1)	8-3230CP	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set	(1)	6-2375CP	Connecting Rod Bearing Set
(1)	260-4029	Valley Pan Gasket Set	(1)	260-1035	Gasket Kit	(1)	260-1231	Gasket Kit	(1)	260-1004	Gasket Kit
(1)	5110M	Main Bearing Set	(1)	4261M	Main Bearing Set	(1)	4123MA	Main Bearing Set	(1)	4092M	Main Bearing Set
(1)	1467M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1202M	Camshaft Bearing Set	(1)	1454M	Camshaft Bearing Set
(1)	KC-771	Cam & Lifter Kit	(1)	KC-643	Cam & Lifter Kit	(1)	KC-708A	Cam & Lifter Kit	(1)	KC-380	Cam & Lifter Kit
(1)	221-3342S	Timing Gear Set	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-41999	Oil Pump	(1)	224-41173	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-4165C	Oil Pump
(1)	381-8056	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MK-6006A</b>			<b>MK-601G</b>			<b>MK-6011B</b>			<b>MK-6020A</b>		
(1)	E-477K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-459K	Premium Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1227	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1232	Gasket Kit	(1)	260-1240	Gasket Kit
(1)	7047MA	Main Bearing Set	(1)	4020M	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	5085MA	Main Bearing Set
(1)	1485M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1791M	Camshaft Bearing Set
(1)	KC-811	Cam & Lifter Kit	(1)	KC-169	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-756	Cam & Lifter Kit
(1)	KT3-370S	Timing Set - 3 Pc.	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-4151	Oil Pump	(1)	224-41173	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8054	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit
<b>MK-6007A</b>			<b>MK-601H</b>			<b>MK-6011C</b>			<b>MK-6021A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-459K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1228	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1232	Gasket Kit	(1)	260-1241	Gasket Kit
(1)	6689MA	Main Bearing Set	(1)	4020M	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	5085MA	Main Bearing Set
(1)	1461M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1791M	Camshaft Bearing Set
(1)	KC-782	Cam & Lifter Kit	(1)	KC-169	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-783	Cam & Lifter Kit
(1)	221-2542LS	Timing Gear Set	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	224-41239	Oil Pump	(1)	224-41177	Oil Pump	(1)	224-4152	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit
<b>MK-6008A</b>			<b>MK-601J</b>			<b>MK-6012E</b>			<b>MK-6023A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-478K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1229	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1244	Gasket Kit
(1)	6690MA	Main Bearing Set	(1)	4020M	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1756M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-781	Cam & Lifter Kit	(1)	KC-443	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit
(1)	221-2544S	Timing Gear Set	(1)	KT3-494SA4	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41239	Oil Pump	(1)	224-41177	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
<b>MK-6009A</b>			<b>MK-601K</b>			<b>MK-6015D</b>			<b>MK-6024C</b>		
(1)	E-450K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1230	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1236	Gasket Kit	(1)	260-1243	Gasket Kit
(1)	4123MA	Main Bearing Set	(1)	4020M	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1202M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-708A	Cam & Lifter Kit	(1)	KC-443	Cam & Lifter Kit	(1)	KC-813	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit
(1)	221-2525S	Timing Gear Set	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KT3-359SA2	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	224-41177	Oil Pump	(1)	381-8073	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8073	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>MK-601C</b>			<b>MK-601L</b>			<b>MK-6017A</b>			<b>MK-6024D</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-434K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1138	Gasket Kit	(1)	260-1243	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	4261M	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	KC-443	Cam & Lifter Kit	(1)	KC-702	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41177	Oil Pump	(1)	224-41177	Oil Pump	(1)	224-518	Oil Pump Repair Kit	(1)	224-4146	Oil Pump
(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	381-8073	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>MK-601E</b>			<b>MK-601M</b>			<b>MK-6019A</b>			<b>MK-6026A</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set	(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	8-3230CP	Connecting Rod Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1239	Gasket Kit	(1)	260-1246	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	4261M	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set	(1)	1791M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set
(1)	KC-642	Cam & Lifter Kit	(1)	1445M	Camshaft Bearing Set	(1)	KC-756	Cam & Lifter Kit	(1)	1235M	Camshaft Bearing Set
(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	KC-643	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-766	Cam & Lifter Kit
(1)	224-41177	Oil Pump	(1)	KT3-494SA3	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	381-8017	Brass Expansion Plug Kit	(1)	224-41173	Oil Pump	(1)	381-8049	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump
			(1)	381-8017	Brass Expansion Plug Kit				(1)	381-8059	Brass Expansion Plug Kit

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-6026C</b>			<b>MK-6036A</b>			<b>MK-605D</b>			<b>MK-607B</b>		
(1)	E-356K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	E-197K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(6)	2555A	Connecting Rod Bearing Pair
(1)	260-1246	Gasket Kit	(1)	260-1267	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1044	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4222M	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1439M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-793	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	KC-261	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KT3-351S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-41146	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8013	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-6026E</b>			<b>MK-6037A</b>			<b>MK-605G</b>			<b>MK-6072A</b>		
(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-197K	Premium Piston Ring Set	(1)	E-494KC	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	4-68150CP	Connecting Rod Bearing Set
(1)	260-1246	Gasket Kit	(1)	260-1268	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1299	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4222M	Main Bearing Set	(1)	6834M	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1439M	Camshaft Bearing Set	(1)	1726M	Auxiliary Shaft Bearing Set
(1)	KC-711	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-448	Cam & Lifter Kit			
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-351S	Timing Set - 3 Pc.			
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41146	Oil Pump			
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8013	Brass Expansion Plug Kit			
<b>MK-6027A</b>			<b>MK-6037C</b>			<b>MK-606A</b>			<b>MK-608A</b>		
(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	260-1002	Gasket Kit
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	4290M	Main Bearing Set
(1)	260-1247	Gasket Kit	(1)	260-1268	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	1439M	Camshaft Bearing Set
(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	KC-448	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	KC-793	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	224-41146	Oil Pump
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			
<b>MK-6027C</b>			<b>MK-6038A</b>			<b>MK-606C</b>			<b>MK-608C</b>		
(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	260-1002	Gasket Kit
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	4290M	Main Bearing Set
(1)	260-1247	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	1439M	Camshaft Bearing Set
(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	KC-658	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	KC-808	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	224-41146	Oil Pump
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			
<b>MK-603A</b>			<b>MK-6038C</b>			<b>MK-606D</b>			<b>MK-608D</b>		
(1)	E-196K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	260-1002	Gasket Kit
(1)	6-3695RA	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(6)	2555A	Connecting Rod Bearing Pair	(1)	5071M	Main Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	1439M	Camshaft Bearing Set
(1)	5070M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	KC-658	Cam & Lifter Kit
(1)	1454M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	KC-380	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	224-41146	Oil Pump
(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit
(1)	224-4165C	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			
<b>MK-603B</b>			<b>MK-6038D</b>			<b>MK-606E</b>			<b>MK-608A</b>		
(1)	E-196K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	260-1032	Gasket Kit
(1)	6-3695RA	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(6)	2555A	Connecting Rod Bearing Pair	(1)	7144MA	Main Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	1462M	Camshaft Bearing Set
(1)	5070M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	KC-702	Cam & Lifter Kit
(1)	1473M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	KT3-359SA1	Timing Set - 3 Pc.
(1)	KC-380	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	224-518	Oil Pump Repair Kit
(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KT3-4SR46	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	381-8035	Brass Expansion Plug Kit
(1)	224-4165C	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			
<b>MK-6033B</b>			<b>MK-604A</b>			<b>MK-607A</b>			<b>MK-6084A</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	260-1315	Gasket Kit
(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	7370M	Main Bearing Set
(1)	260-1123	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1044	Gasket Kit	(1)	1496M	Camshaft Bearing Set
(1)	5090MA	Main Bearing Set	(1)	5070M	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	KC-770	Cam & Lifter Kit
(1)	1492M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	KT3-181S	Timing Set - 3 Pc.
(1)	KC-715	Cam & Lifter Kit	(1)	KC-709	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit	(1)	224-43424	Oil Pump
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	381-8057	Brass Expansion Plug Kit
(1)	224-4148	Oil Pump	(1)	224-4165C	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			
<b>MK-6036C</b>			<b>MK-604A</b>			<b>MK-607A</b>			<b>MK-6086C</b>		
(1)	E-356K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1044	Gasket Kit			
(1)	4663MA	Main Bearing Set	(1)	5070M	Main Bearing Set	(1)	4124MA	Main Bearing Set			
(1)	1492M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set			
(1)	KC-715	Cam & Lifter Kit	(1)	KC-709	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit			
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set			
(1)	224-4148	Oil Pump	(1)	224-4165C	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit			



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description			
<b>MK-6086C</b> (cont'd.)			<b>MK-6097A</b> (cont'd.)			<b>MK-6103E</b> (cont'd.)			<b>MK-6111C</b> (cont'd.)		
(1)	260-1418	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	222-67	Timing Belt	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	4400MA	Main Bearing Set	(1)	260-1427	Gasket Kit	(1)	224-41972	Oil Pump	(1)	224-43567	Oil Pump
(1)	1404M	Camshaft Bearing Set	(1)	6678MA	Main Bearing Set	<b>MK-6105A</b>			(1)	381-8053	Brass Expansion Plug Kit
(1)	KC-774	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	E-442KC	Premium Piston Ring Set	<b>MK-6112B</b>		
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	4-3545A	Connecting Rod Bearing Set	(1)	E-471K	Premium Piston Ring Set
(1)	224-4154G	Oil Pump	(1)	222-132	Timing Belt	(1)	260-1434	Gasket Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	381-8009	Brass Expansion Plug Kit	(1)	224-4168	Oil Pump	(1)	4979M	Main Bearing Set	(1)	260-1442	Gasket Kit
<b>MK-6087A</b>			<b>MK-6098A</b>			<b>MK-6106A</b>			<b>MK-6112C</b>		
(1)	E-229K	Premium Piston Ring Set	(1)	E-536K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1420	Gasket Kit	(1)	260-1428	Gasket Kit	(1)	260-1436	Gasket Kit	(1)	260-1442	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	7050MA	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	1781M	Camshaft Bearing Set	(1)	1790M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-829	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
(1)	221-2764S	Timing Gear Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-41100	Oil Pump	(1)	224-43567	Oil Pump
(1)	381-8071	Brass Expansion Plug Kit	<b>MK-6098C</b>			<b>MK-6107A</b>			<b>MK-6113B</b>		
<b>MK-6091A</b>			(1)	E-536K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	E-509K	Premium Piston Ring Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	8-3810CP	Connecting Rod Bearing Set	(1)	260-1428	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-1673	Gasket Kit	(1)	7050MA	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	260-4029	Valley Pan Gasket Set	(1)	1790M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	5110M	Main Bearing Set	(1)	KC-829	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
(1)	1467M	Camshaft Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	KC-771	Cam & Lifter Kit	(1)	224-4166	Oil Pump	(1)	224-41100	Oil Pump	(1)	224-43567	Oil Pump
(1)	221-3342S	Timing Gear Set	(1)	381-8061	Brass Expansion Plug Kit	<b>MK-6108A</b>			<b>MK-6113C</b>		
(1)	224-41999	Oil Pump	<b>MK-6092A</b>			(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	381-8056	Brass Expansion Plug Kit	(1)	E-234K	Premium Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>MK-6092A</b>			(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	260-1437	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-1424	Gasket Kit	(1)	260-1429	Gasket Kit	(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	4289M	Main Bearing Set	(1)	7050MA	Main Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	1244M	Camshaft Bearing Set	(1)	1790M	Camshaft Bearing Set	(1)	KC-788	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit
(1)	KC-809	Cam & Lifter Kit	(1)	KC-1501	Cam & Lifter Kit	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	224-41100	Oil Pump	(1)	224-51380	Oil Pump Repair Kit
(1)	224-41198	Oil Pump	(1)	224-4166	Oil Pump	<b>MK-6108A</b>			<b>MK-6113C</b>		
<b>MK-6093C</b>			(1)	381-8061	Brass Expansion Plug Kit	(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	E-454K	Premium Piston Ring Set	<b>MK-6099C</b>			(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-536K	Premium Piston Ring Set	(1)	260-1438	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-1425	Gasket Kit	(1)	6-1460A	Connecting Rod Bearing Set	(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	6678MA	Main Bearing Set	(1)	260-1429	Gasket Kit	(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	7050MA	Main Bearing Set	(1)	KC-788	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	1790M	Camshaft Bearing Set	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	222-153	Timing Belt	(1)	KC-1501	Cam & Lifter Kit	(1)	224-41100	Oil Pump	(1)	224-43567	Oil Pump
(1)	224-4168	Oil Pump	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	381-8063	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
(1)	381-8050	Brass Expansion Plug Kit	(1)	224-4166	Oil Pump	<b>MK-6110A</b>			<b>MK-6113C</b>		
<b>MK-6093C</b>			(1)	381-8061	Brass Expansion Plug Kit	(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	E-454K	Premium Piston Ring Set	<b>MK-6100A</b>			(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-178K	Premium Piston Ring Set	(1)	260-1438	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-1425	Gasket Kit	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	6678MA	Main Bearing Set	(1)	260-1430	Gasket Kit	(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	5095MA	Main Bearing Set	(1)	KC-788	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	1484M	Camshaft Bearing Set	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	222-153	Timing Belt	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	224-41100	Oil Pump	(1)	224-43567	Oil Pump
(1)	224-4168	Oil Pump	(1)	224-4166	Oil Pump	(1)	381-8063	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit	<b>MK-6110A</b>			<b>MK-6113C</b>		
<b>MK-6094A</b>			<b>MK-6103A</b>			(1)	E-446K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	E-453K	Premium Piston Ring Set	(1)	E-470KC	Premium Piston Ring Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	260-1210	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-1426	Gasket Kit	(1)	260-1205	Gasket Kit	(1)	7011MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
(1)	6678MA	Main Bearing Set	(1)	6695MA	Main Bearing Set	(1)	1843M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-791	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit	(1)	1886M	Camshaft Bearing Set
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	222-67	Timing Belt	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KC-860	Cam & Lifter Kit
(1)	222-153	Timing Belt	(1)	224-41972	Oil Pump	(1)	224-41101	Oil Pump	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	224-4168	Oil Pump	<b>MK-6103C</b>			(1)	381-8072	Brass Expansion Plug Kit	(1)	224-51380	Oil Pump Repair Kit
(1)	381-8050	Brass Expansion Plug Kit	(1)	E-470KC	Premium Piston Ring Set	<b>MK-6111A</b>			<b>MK-6113C</b>		
<b>MK-6094D</b>			(1)	4-1400AA	Connecting Rod Bearing Set	(1)	E-471K	Premium Piston Ring Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	E-453K	Premium Piston Ring Set	(1)	260-1205	Gasket Kit	(6)	3830CPA	Connecting Rod Bearing Pair	(1)	260-1444	Gasket Kit
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6695MA	Main Bearing Set	(1)	260-1441	Gasket Kit	(1)	7295MA	Main Bearing Set
(1)	260-1426	Gasket Kit	(1)	KC-790	Cam & Lifter Kit	(1)	7295MA	Main Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	6678MA	Main Bearing Set	(1)	222-67	Timing Belt	(1)	1886M	Camshaft Bearing Set	(1)	7295MA	Main Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	224-41972	Oil Pump	(1)	KC-786	Cam & Lifter Kit	(1)	1886M	Camshaft Bearing Set
(1)	KC-785C	Cam, Lifter & Follower Kit	<b>MK-6103E</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KC-860	Cam & Lifter Kit
(1)	222-71	Timing Belt	(1)	E-470KC	Premium Piston Ring Set	(1)	224-51380	Oil Pump Repair Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	224-4168	Oil Pump	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	224-43567	Oil Pump
(1)	381-8050	Brass Expansion Plug Kit	(1)	260-1205	Gasket Kit	<b>MK-6111C</b>			<b>MK-6114C</b>		
<b>MK-6097A</b>			(1)	6695MA	Main Bearing Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	E-454K	Premium Piston Ring Set	(1)	KC-790	Cam & Lifter Kit	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(cont'd. next column)			(1)	222-67	Timing Belt	(1)	260-1441	Gasket Kit	(1)	260-1444	Gasket Kit
			(1)	224-41972	Oil Pump	(1)	7295MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
			(1)	224-4168	Oil Pump	(1)	1886M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
			(1)	381-8050	Brass Expansion Plug Kit	(1)	KC-786	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
			(1)	381-8053	Brass Expansion Plug Kit	(1)	224-43567	Oil Pump	(1)	224-43567	Oil Pump
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
			(1)	381-8053	Brass Expansion Plug Kit	<b>MK-6111C</b>			<b>MK-6114C</b>		
			(1)	381-8053	Brass Expansion Plug Kit	(1)	E-471K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	260-1441	Gasket Kit	(1)	260-1444	Gasket Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	7295MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	1886M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	KC-786	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
			(1)	381-8053	Brass Expansion Plug Kit	(1)	224-43567	Oil Pump	(1)	224-43567	Oil Pump
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
			(1)	381-8053	Brass Expansion Plug Kit	<b>MK-6111C</b>			<b>MK-6114C</b>		
			(1)	381-8053	Brass Expansion Plug Kit	(1)	E-471K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	260-1441	Gasket Kit	(1)	260-1444	Gasket Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	7295MA	Main Bearing Set	(1)	7295MA	Main Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	1886M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	KC-786	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
			(1)	381-8053	Brass Expansion Plug Kit	(1)	224-43567	Oil Pump	(1)	224	

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-6115A</b> (cont'd.)			<b>MK-6123A</b> (cont'd.)			<b>MK-6135A</b> (cont'd.)			<b>MK-614F</b> (cont'd.)		
(1)	1204M	Camshaft Bearing Set	(1)	260-1452	Gasket Kit	(1)	6690MA	Main Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-760	Cam & Lifter Kit	(1)	4907M	Main Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	KC-633	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	1414M	Camshaft Bearing Set	(1)	KC-781	Cam & Lifter Kit	(1)	221-2540S	Timing Gear Set
(1)	224-41118	Oil Pump	(1)	KC-648	Cam & Lifter Kit	(1)	221-2544S	Timing Gear Set	(1)	224-4147	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MK-6116A</b>			<b>MK-6124A</b>			<b>MK-6136A</b>			<b>MK-614G</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1446	Gasket Kit	(1)	260-1453	Gasket Kit	(1)	260-1463	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	4907M	Main Bearing Set	(1)	6690MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-764	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KC-781	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	221-2544S	Timing Gear Set	(1)	221-2540S	Timing Gear Set
(1)	224-41143	Oil Pump	(1)	224-41144	Oil Pump	(1)	381-8074	Brass Expansion Plug Kit	(1)	224-4147	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit				(1)	381-8006	Brass Expansion Plug Kit
<b>MK-612C</b>			<b>MK-613C</b>			<b>MK-6138A</b>			<b>MK-6140A</b>		
(1)	E-229K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	E-533K	Premium Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1465	Gasket Kit	(1)	260-1467	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	7144MA	Main Bearing Set
(1)	1450M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-660	Cam & Lifter Kit	(1)	KC-813	Cam & Lifter Kit	(1)	KC-1505	Cam & Lifter Kit
(1)	221-2750LS	Timing Gear Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KT3-359SA2	Timing Set - 3 Pc.	(1)	KT3-377S	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	224-4154	Oil Pump	(1)	381-8073	Brass Expansion Plug Kit	(1)	224-51379	Oil Pump Repair Kit
(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit						
<b>MK-612E</b>			<b>MK-613E</b>			<b>MK-614A</b>			<b>MK-6141A</b>		
(1)	E-229K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-532K	Premium Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1469	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7144MA	Main Bearing Set
(1)	1450M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	1755M	Camshaft Bearing Set
(1)	221-2764S	Timing Gear Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	381-8073	Brass Expansion Plug Kit
(1)	224-41124	Oil Pump	(1)	224-4154	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit						
<b>MK-6120A</b>			<b>MK-6131A</b>			<b>MK-614C</b>			<b>MK-6141E</b>		
(1)	E-446K	Premium Piston Ring Set	(1)	E-531K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-532K	Premium Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1222	Gasket Kit	(1)	260-1227	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1469	Gasket Kit
(1)	7011MA	Main Bearing Set	(1)	7047MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7144MA	Main Bearing Set
(1)	1843M	Camshaft Bearing Set	(1)	1485M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set
(1)	KC-787	Cam & Lifter Kit	(1)	KC-811	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	381-8073	Brass Expansion Plug Kit
(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-370S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set			
(1)	224-41101	Oil Pump	(1)	224-4151	Oil Pump	(1)	224-4147	Oil Pump			
(1)	381-8072	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit						
<b>MK-6121A</b>			<b>MK-6132C</b>			<b>MK-614D</b>			<b>MK-6142A</b>		
(1)	E-458K	Premium Piston Ring Set	(1)	E-535K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-444K	Premium Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-1540A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1451	Gasket Kit	(1)	260-1460	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1470	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	7054MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7046MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	KC-831	Cam & Lifter Kit	(1)	1203M	Camshaft Bearing Set	(1)	1757M	Main Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	KC-832	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-751	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-D130SA	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	KT3-503S	Timing Set - 3 Pc.
(1)	224-41118	Oil Pump	(1)	224-43435	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-5129	Oil Pump Repair Kit
(1)	381-8015	Brass Expansion Plug Kit									
<b>MK-6121C</b>			<b>MK-6134A</b>			<b>MK-614E</b>			<b>MK-6144A</b>		
(1)	E-458K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-444K	Premium Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-3870RA	Connecting Rod Bearing Set
(1)	260-1451	Gasket Kit	(1)	260-1464	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1473	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	6689MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7046MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1757M	Camshaft Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	KC-782	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-751	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	221-2542LS	Timing Gear Set	(1)	221-2525S	Timing Gear Set	(1)	KT3-503S	Timing Set - 3 Pc.
(1)	224-41118	Oil Pump	(1)	381-8074	Brass Expansion Plug Kit	(1)	224-4147	Oil Pump	(1)	224-5129	Oil Pump Repair Kit
(1)	381-8015	Brass Expansion Plug Kit									
<b>MK-6123A</b>			<b>MK-6135A</b>			<b>MK-614F</b>			<b>MK-6148A</b>		
(1)	E-296K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next column)		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-619D</b> (cont'd.)			<b>MK-6206A</b> (cont'd.)			<b>MK-624C</b>			<b>MK-6251A</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	224-51384	Oil Pump Repair Kit	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
<b>MK-619E</b>			(1)	381-8060	Brass Expansion Plug Kit	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	E-245K	Premium Piston Ring Set	<b>MK-621D</b>			(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	E-245K	Premium Piston Ring Set	(1)	4925M	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	260-1000	Gasket Kit	(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	994M	Main Bearing Set	(1)	260-1025	Gasket Kit	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	4040M	Main Bearing Set	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	1220M	Camshaft Bearing Set	(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KC-641	Cam & Lifter Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	224-4149	Oil Pump	(1)	KT3-350S	Timing Set - 3 Pc.	<b>MK-624D</b>			<b>MK-6251C</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	224-43364S	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
<b>MK-619F</b>			(1)	381-8021	Brass Expansion Plug Kit	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	E-245K	Premium Piston Ring Set	<b>MK-621E</b>			(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	E-245K	Premium Piston Ring Set	(1)	4925M	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	260-1000	Gasket Kit	(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	994M	Main Bearing Set	(1)	260-1025	Gasket Kit	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	4040M	Main Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	1220M	Camshaft Bearing Set	(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-690C	Cam & Lifter Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	KT3-350S	Timing Set - 3 Pc.	<b>MK-624G</b>			<b>MK-6253A</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	224-43364S	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
<b>MK-619G</b>			(1)	381-8021	Brass Expansion Plug Kit	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	E-245K	Premium Piston Ring Set	<b>MK-6212A</b>			(1)	260-1014	Gasket Kit	(1)	260-1559	Gasket Kit
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	E-446K	Premium Piston Ring Set	(1)	5078MA	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	260-1000	Gasket Kit	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	994M	Main Bearing Set	(1)	260-1556	Gasket Kit	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	7011MA	Main Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	1843M	Camshaft Bearing Set	(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-787	Cam & Lifter Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	224-4149	Oil Pump	(1)	KT3-374S	Timing Set - 3 Pc.	<b>MK-624J</b>			<b>MK-6257A</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8072	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set
<b>MK-619G</b>			<b>MK-6212A</b>			(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-3860P	Connecting Rod Bearing Set
(1)	E-245K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set	(1)	260-1014	Gasket Kit	(1)	260-1619	Gasket Kit
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	5078MA	Main Bearing Set	(1)	7370M	Main Bearing Set
(1)	260-1000	Gasket Kit	(1)	260-1556	Gasket Kit	(1)	1403M	Camshaft Bearing Set	(1)	1496M	Camshaft Bearing Set
(1)	994M	Main Bearing Set	(1)	7011MA	Main Bearing Set	(1)	KC-667	Cam & Lifter Kit	(1)	KC-770	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-181S	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit	(1)	224-41166	Oil Pump	(1)	224-43424	Oil Pump
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8057	Brass Expansion Plug Kit
(1)	224-4149	Oil Pump	(1)	381-8072	Brass Expansion Plug Kit	<b>MK-624M</b>			<b>MK-6263A</b>		
(1)	381-8007	Brass Expansion Plug Kit	<b>MK-6215A</b>			(1)	E-251K	Premium Piston Ring Set	(1)	E-613K	Premium Piston Ring Set
(1)	E-245K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1014	Gasket Kit	(1)	260-1652	Gasket Kit
(1)	260-1000	Gasket Kit	(1)	260-1559	Gasket Kit	(1)	5078MA	Main Bearing Set	(1)	7245MA	Main Bearing Set
(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	1403M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KC-667	Cam & Lifter Kit	(1)	KC-1511	Cam & Lifter Kit
(1)	KC-274	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	224-41166	Oil Pump	(1)	224-43431	Oil Pump
(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	381-8016	Brass Expansion Plug Kit	<b>MK-6264A</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	<b>MK-624M</b>			(1)	E-613K	Premium Piston Ring Set
<b>MK-620B</b>			<b>MK-6215A</b>			(1)	8-3400CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	E-245K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set	(1)	260-1014	Gasket Kit	(1)	260-1652	Gasket Kit
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	5107M	Main Bearing Set	(1)	7245MA	Main Bearing Set
(1)	260-1000	Gasket Kit	(1)	260-1559	Gasket Kit	(1)	1403M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	KC-667	Cam & Lifter Kit	(1)	KC-1511	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	224-41166	Oil Pump	(1)	224-43431	Oil Pump
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	381-8016	Brass Expansion Plug Kit	<b>MK-6263A</b>		
(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	<b>MK-624M</b>			(1)	E-613K	Premium Piston Ring Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	6-3055CP	Connecting Rod Bearing Set
<b>MK-6205A</b>			<b>MK-6219C</b>			(1)	8-3400CP	Connecting Rod Bearing Set	(1)	260-1652	Gasket Kit
(1)	E-454K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	260-1014	Gasket Kit	(1)	7245MA	Main Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair	(1)	5107M	Main Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	260-1616	Gasket Kit	(1)	260-1563	Gasket Kit	(1)	1403M	Camshaft Bearing Set	(1)	KC-1511	Cam & Lifter Kit
(1)	6678MA	Main Bearing Set	(1)	6689MA	Main Bearing Set	(1)	KC-667	Cam & Lifter Kit	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	224-43431	Oil Pump
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	224-41166	Oil Pump	<b>MK-6264A</b>		
(1)	222-153	Timing Belt	<b>MK-622C</b>			(1)	381-8016	Brass Expansion Plug Kit	(1)	E-613K	Premium Piston Ring Set
(1)	224-4168	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	381-8050	Brass Expansion Plug Kit	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	260-1652	Gasket Kit
<b>MK-6205B</b>			(1)	260-1033	Gasket Kit	(1)	260-1028	Gasket Kit	(1)	7245MA	Main Bearing Set
(1)	E-454K	Premium Piston Ring Set	(1)	4999MA	Main Bearing Set	(1)	5107M	Main Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KC-1510	Cam & Lifter Kit
(1)	260-1616	Gasket Kit	(1)	KC-665	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	6678MA	Main Bearing Set	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	224-43431	Oil Pump
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	224-4166	Oil Pump	(1)	224-41143	Oil Pump	<b>MK-6269A</b>		
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-381K	Premium Piston Ring Set
(1)	222-153	Timing Belt	<b>MK-6221C</b>			(1)	E-251K	Premium Piston Ring Set	(4)	2555A	Connecting Rod Bearing Pair
(1)	224-4168	Oil Pump	(1)	E-562KC	Premium Piston Ring Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	260-1506M	Gasket Kit
<b>MK-6206A</b>			(1)	6-4385RA	Connecting Rod Bearing Set	(1)	260-1028	Gasket Kit	(1)	4123MA	Main Bearing Set
(1)	E-529K	Premium Piston Ring Set	(1)	260-1714	Gasket Kit	(1)	5107M	Main Bearing Set	(1)	1461M	Camshaft Bearing Set
(1)	6-1920RA	Connecting Rod Bearing Set	(1)	7261M	Main Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KC-1068M	Cam & Lifter Kit
(1)	260-1646	Gasket Kit	(1)	3956BF	Thrust Washer Set	(1)	KC-674	Cam & Lifter Kit	(1)	221-2528S	Timing Gear Set
(1)	7278MA	Main Bearing Set	(1)	KC-1525	Cam & Lifter Kit	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	224-4147	Oil Pump
(1)	1809M	Camshaft Bearing Set	(1)	222-154	Timing Belt	(1)	224-41143	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit
(1)	KC-1503	Cam & Lifter Kit	(1)	224-41980	Oil Pump	<b>MK-625C</b>			<b>MK-6269A</b>		
(1)	KT3-388S	Timing Set - 3 Pc.	<b>MK-6221C</b>			(1)	E-251K	Premium Piston Ring Set	(1)	E-381K	Premium Piston Ring Set
(cont'd. next column)			(1)	E-562KC	Premium Piston Ring Set	(1)	8-3380A	Connecting Rod Bearing Set	(4)	2555A	Connecting Rod Bearing Pair
			(1)	6-4385RA	Connecting Rod Bearing Set	(1)	260-1028	Gasket Kit	(1)	260-1506M	Gasket Kit
			(1)	260-1714	Gasket Kit	(1)	5107M	Main Bearing Set	(1)	4123MA	Main Bearing Set
			(1)	7261M	Main Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set
			(1)	3956BF	Thrust Washer Set	(1)	KC-674	Cam & Lifter Kit	(1)	221-2528S	Timing Gear Set
			(1)	KC-1525	Cam & Lifter Kit	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	224-4147	Oil Pump
			(1)	222-154	Timing Belt	(1)	224-41143	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit
			(1)	224-41980	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-6269C</b>			<b>MK-630C</b>			<b>MK-6329A</b>		
(1)	E-381K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set
(4)	2555A	Connecting Rod Bearing Pair	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set
(1)	260-1505M	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1432	Gasket Kit
(1)	4123MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	7090M	Main Bearing Set
(1)	1461M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1736AF	Thrust Washer Set
(1)	KC-1068M	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-864	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-865	Cam & Lifter Kit
(1)	224-4147	Oil Pump	(1)	224-4146	Oil Pump	(1)	222-139	Timing Belt
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	224-42000	Oil Pump
<b>MK-627A</b>			<b>MK-630F</b>			<b>MK-633A</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(1)	260-1126	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1124	Gasket Kit
(1)	5107M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-707	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	KT3-498SA3	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41203	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8020	Brass Expansion Plug Kit
<b>MK-627C</b>			<b>MK-632A</b>			<b>MK-6339B</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1126	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1612	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	4924MA	Main Bearing Set	(1)	7086MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-327A	Cam & Lifter Kit	(1)	KC-861	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-43567	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
<b>MK-627D</b>			<b>MK-632E</b>			<b>MK-634A</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1126	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	5025MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-647	Cam & Lifter Kit
(1)	KT3-163SA	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-6270A</b>			<b>MK-632F</b>			<b>MK-634C</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set
(1)	260-1508M	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1012	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	4924MA	Main Bearing Set	(1)	4418M	Main Bearing Set
(1)	1203M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1422M	Camshaft Bearing Set
(1)	KC-1092M	Cam & Lifter Kit	(1)	KC-661	Cam & Lifter Kit	(1)	KC-676	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	(1)	KT3-168S	Timing Set - 3 Pc.	(1)	KT3-359S	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8002	Brass Expansion Plug Kit
<b>MK-6270C</b>			<b>MK-632G</b>			<b>MK-6369</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-536K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set
(1)	260-1508M	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1429	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	4924MA	Main Bearing Set	(1)	7050MA	Main Bearing Set
(1)	1557M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1790M	Camshaft Bearing Set
(1)	KC-1092M	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-1501	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-380S	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8061	Brass Expansion Plug Kit
<b>MK-6271A</b>			<b>MK-632H</b>			<b>MK-637D</b>		
(1)	E-245K	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1510M	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1013	Gasket Kit
(1)	994M	Main Bearing Set	(1)	5025MA	Main Bearing Set	(1)	4907M	Main Bearing Set
(1)	1145M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-661	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-163S	Timing Set - 3 Pc.	(1)	KT3-168S	Timing Set - 3 Pc.	(1)	KT3-491SA	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-41139	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MK-6271B</b>			<b>MK-632I</b>			<b>MK-637E</b>		
(1)	E-296K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1013	Gasket Kit	(1)	260-1013	Gasket Kit	(1)	260-1013	Gasket Kit
(1)	4907M	Main Bearing Set	(1)	4907M	Main Bearing Set	(1)	4907M	Main Bearing Set
(1)	1414M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-41139	Oil Pump	(1)	224-41139	Oil Pump	(1)	224-41139	Oil Pump
(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MK-6271C</b>			<b>MK-632J</b>			<b>MK-637F</b>		
(1)	E-296K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1013	Gasket Kit	(1)	260-1013	Gasket Kit	(1)	260-1013	Gasket Kit
(1)	4907M	Main Bearing Set	(1)	4907M	Main Bearing Set	(1)	4907M	Main Bearing Set
(1)	1414M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-41139	Oil Pump	(1)	224-41139	Oil Pump	(1)	224-41139	Oil Pump
(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MK-6271D</b>			<b>MK-632K</b>			<b>MK-6373A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1563	Gasket Kit	(1)	260-1563	Gasket Kit	(1)	260-1563	Gasket Kit
(1)	6689MA	Main Bearing Set	(1)	6689MA	Main Bearing Set	(1)	6689MA	Main Bearing Set
(1)	1461M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set
(1)	KC-1507	Cam & Lifter Kit	(1)	KC-1507	Cam & Lifter Kit	(1)	KC-1507	Cam & Lifter Kit
(1)	221-2542LS	Timing Gear Set	(1)	221-2542LS	Timing Gear Set	(1)	221-2542LS	Timing Gear Set
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit
<b>MK-6271E</b>			<b>MK-632L</b>			<b>MK-6374A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1463	Gasket Kit	(1)	260-1463	Gasket Kit	(1)	260-1463	Gasket Kit
(1)	6690MA	Main Bearing Set	(1)	6690MA	Main Bearing Set	(1)	6690MA	Main Bearing Set
(1)	1756M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set
(1)	KC-1518	Cam & Lifter Kit	(1)	KC-1518	Cam & Lifter Kit	(1)	KC-1518	Cam & Lifter Kit
(1)	KT3-378S	Timing Set - 3 Pc.	(1)	KT3-378S	Timing Set - 3 Pc.	(1)	KT3-378S	Timing Set - 3 Pc.
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit
<b>MK-6271F</b>			<b>MK-632M</b>			<b>MK-6377</b>		
(1)	E-178K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1430	Gasket Kit	(1)	260-1430	Gasket Kit	(1)	260-1430	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	5095MA	Main Bearing Set	(1)	5095MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-1565	Cam & Lifter Kit	(1)	KC-1565	Cam & Lifter Kit	(1)	KC-1565	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-6271G</b>			<b>MK-632N</b>			<b>MK-6379</b>		
(1)	E-605K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1466	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1466	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	7242MA	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	KC-715	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit
(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	224-4148	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4148	Oil Pump
(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit
<b>MK-6271H</b>			<b>MK-632O</b>			<b>MK-638A</b>		
(1)	E-297K	Premium Piston Ring Set	(1)	E-297K				

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-639C</b>			<b>MK-647A</b>			<b>MK-658C</b>			<b>MK-662J</b> (cont'd.)		
(1)	E-297K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	260-1000	Gasket Kit
(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	994M	Main Bearing Set
(1)	260-1008	Gasket Kit	(1)	260-1023	Gasket Kit	(1)	260-1045	Gasket Kit	(1)	1235M	Camshaft Bearing Set
(1)	4281M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	KC-274	Cam & Lifter Kit
(1)	1234M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	K73-499S	Timing Set - 3 Pc.
(1)	KC-707	Cam & Lifter Kit	(1)	KC-673	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	224-4146	Oil Pump
(1)	K73-498SA3	Timing Set - 3 Pc.	(1)	K73-499S	Timing Set - 3 Pc.	(1)	K73-163S	Timing Set - 3 Pc.	(1)	224-8107	Brass Expansion Plug Kit
(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump			
(1)	381-8020	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit			
<b>MK-640E</b>			<b>MK-648A</b>			<b>MK-660A</b>			<b>MK-667E</b>		
(1)	E-299K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	260-1025	Gasket Kit	(1)	260-1024	Gasket Kit	(1)	260-1046	Gasket Kit	(1)	260-1001	Gasket Kit
(1)	4040M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	4094M	Main Bearing Set
(1)	1220M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set
(1)	KC-690C	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit
(1)	K73-350S	Timing Set - 3 Pc.	(1)	K73-499S	Timing Set - 3 Pc.	(1)	K73-501SA	Timing Set - 3 Pc.	(1)	K73-501S	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4154	Oil Pump	(1)	224-4174	Oil Pump
(1)	381-8021	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit
<b>MK-6405A</b>			<b>MK-653D</b>			<b>MK-661A</b>			<b>MK-667F</b>		
(1)	E-532K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-243K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	260-1566	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1001	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	4094M	Main Bearing Set
(1)	1755M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set
(1)	KC-1506	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit	(1)	KC-327A	Cam & Lifter Kit
(1)	K73-381S	Timing Set - 3 Pc.	(1)	K73-358S	Timing Set - 3 Pc.	(1)	K73-501SA	Timing Set - 3 Pc.	(1)	K73-501S	Timing Set - 3 Pc.
(1)	224-51379	Oil Pump Repair Kit	(1)	224-41118	Oil Pump	(1)	224-4154	Oil Pump	(1)	224-4174	Oil Pump
			(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit
<b>MK-642A</b>			<b>MK-653F</b>			<b>MK-662A</b>			<b>MK-667G</b>		
(1)	E-318K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1001	Gasket Kit
(1)	4094M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set	(1)	4094M	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1145M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set
(1)	KC-327	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-327A	Cam & Lifter Kit
(1)	K73-501S	Timing Set - 3 Pc.	(1)	K73-358SA	Timing Set - 3 Pc.	(1)	K73-489S	Timing Set - 3 Pc.	(1)	K73-501S	Timing Set - 3 Pc.
(1)	224-4174	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-4174	Oil Pump
(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump	(1)	381-8011	Brass Expansion Plug Kit
<b>MK-642D</b>			<b>MK-653H</b>			<b>MK-662C</b>			<b>MK-672A</b>		
(1)	E-318K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-261K	Premium Piston Ring Set
(8)	2320CP	Connecting Rod Bearing Pair	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair
(1)	260-1001	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1035	Gasket Kit
(1)	4094M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set	(1)	4261M	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set
(1)	KC-661	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-642	Cam & Lifter Kit
(1)	K73-501S	Timing Set - 3 Pc.	(1)	K73-358SA	Timing Set - 3 Pc.	(1)	K73-489S	Timing Set - 3 Pc.	(1)	K73-494SA1	Timing Set - 3 Pc.
(1)	224-4174	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41173	Oil Pump
(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump	(1)	381-8017	Brass Expansion Plug Kit
<b>MK-642E</b>			<b>MK-653J</b>			<b>MK-662E</b>			<b>MK-679C</b>		
(1)	E-318K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-300K	Premium Piston Ring Set
(8)	2320CP	Connecting Rod Bearing Pair	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-1555CPA	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1025	Gasket Kit
(1)	4094M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set	(1)	4221M	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1220M	Camshaft Bearing Set
(1)	KC-327	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-641	Cam & Lifter Kit
(1)	K73-168S	Timing Set - 3 Pc.	(1)	K73-356S	Timing Set - 3 Pc.	(1)	K73-489S	Timing Set - 3 Pc.	(1)	K73-350S	Timing Set - 3 Pc.
(1)	224-4174	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4149	Oil Pump	(1)	224-43364S	Oil Pump
(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	224-4149	Oil Pump	(1)	381-8021	Brass Expansion Plug Kit
<b>MK-646A</b>			<b>MK-658A</b>			<b>MK-662F</b>			<b>MK-683C</b>		
(1)	E-352K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1018	Gasket Kit	(1)	260-1045	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1095	Gasket Kit
(1)	4979M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	994M	Main Bearing Set	(1)	4999MA	Main Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-665	Cam & Lifter Kit
(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	K73-499S	Timing Set - 3 Pc.	(1)	K73-499S	Timing Set - 3 Pc.	(1)	K73-160S	Timing Set - 3 Pc.
(1)	222-14	Timing Belt	(1)	224-4146	Oil Pump	(1)	224-4149	Oil Pump	(1)	224-4166	Oil Pump
(1)	224-41160	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit	(1)	224-4149	Oil Pump	(1)	381-8010	Brass Expansion Plug Kit
(1)	381-8029	Brass Expansion Plug Kit				<b>MK-662J</b>			<b>MK-686A</b>		
						(1)	E-251K	Premium Piston Ring Set	(1)	E-232K	Premium Piston Ring Set
						(1)	8-2020CP	Connecting Rod Bearing Set	(cont'd. next page)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-686A</b> (cont'd.)			<b>MK-699E</b> (cont'd.)			<b>MK-7014</b>			<b>MK-7053</b>		
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	E-628K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(1)	260-1009	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	6-1020A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	4400MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	260-1240	Gasket Kit	(1)	260-1424	Gasket Kit
(1)	1255M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	5085MA	Main Bearing Set	(1)	4289M	Main Bearing Set
(1)	KC-636	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	1463M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	224-4154	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KC-783	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(1)	381-8009	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KT3-499SA6	Timing Set - 3 Pc.	(1)	KT3-45R48	Timing Set - 3 Pc.
<b>MK-686C</b>			<b>MK-7000</b>			<b>MK-7021</b>			<b>MK-7057</b>		
(1)	E-232K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1427	Gasket Kit
(1)	4400MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	6678MA	Main Bearing Set
(1)	1404M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1840M	Camshaft Bearing Set
(1)	KC-636	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit
(1)	224-4154	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-43469	Oil Pump	(1)	222-153	Timing Belt
(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	224-4168	Oil Pump
<b>MK-691C</b>			<b>MK-7001</b>			<b>MK-7028</b>			<b>MK-7058</b>		
(1)	E-369K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set
(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1032	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1418	Gasket Kit	(1)	260-1616	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4400MA	Main Bearing Set	(1)	6678MA	Main Bearing Set
(1)	1462M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set	(1)	1840M	Camshaft Bearing Set
(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	224-518	Oil Pump Repair Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-507S	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit
(1)	381-8035	Brass Expansion Plug Kit	(1)	224-4152	Oil Pump	(1)	224-4154G	Oil Pump	(1)	222-153	Timing Belt
<b>MK-692A</b>			<b>MK-7002</b>			<b>MK-7032</b>			<b>MK-7062</b>		
(1)	E-414K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	6-3750P	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1101	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	260-1430	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	5095MA	Main Bearing Set
(1)	1791M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-712	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KC-1565	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-380S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-41100	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8049	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8063	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-694B</b>			<b>MK-7003</b>			<b>MK-7033</b>			<b>MK-713A</b>		
(1)	E-236K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set	(1)	E-286K	Premium Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1103	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1556	Gasket Kit	(1)	260-1121	Gasket Kit
(1)	4281M	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	7011MA	Main Bearing Set	(1)	4923MA	Main Bearing Set
(1)	1466M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-698	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit	(1)	KC-644	Cam & Lifter Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-41203	Oil Pump	(1)	224-4152	Oil Pump	(1)	224-43636S	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8037	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8072	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
<b>MK-695B</b>			<b>MK-7001</b>			<b>MK-7044</b>			<b>MK-715A</b>		
(1)	E-378K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set	(1)	E-301K	Premium Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set
(1)	260-1104	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1445	Gasket Kit	(1)	260-1151	Gasket Kit
(1)	4281M	Main Bearing Set	(1)	7242MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	5037M	Main Bearing Set
(1)	1466M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1401M	Camshaft Bearing Set
(1)	KC-707	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-759	Cam & Lifter Kit	(1)	KC-646	Cam & Lifter Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-369S	Timing Set - 3 Pc.
(1)	224-41203	Oil Pump	(1)	224-4148V	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-51285	Oil Pump Repair Kit
(1)	381-8047	Brass Expansion Plug Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8001	Brass Expansion Plug Kit
<b>MK-699D</b>			<b>MK-7012</b>			<b>MK-7050</b>			<b>MK-716A</b>		
(1)	E-411K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1020A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1123	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	260-1134	Gasket Kit
(1)	5090MA	Main Bearing Set	(1)	5085MA	Main Bearing Set	(1)	6676M	Main Bearing Set	(1)	4289M	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	KC-715	Cam & Lifter Kit	(1)	KC-783	Cam & Lifter Kit	(1)	KC-779	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-499SA6	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.
(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41198	Oil Pump			
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8058	Brass Expansion Plug Kit	(1)	381-8086	Brass Expansion Plug Kit			
<b>MK-699E</b>											
(1)	E-411K	Premium Piston Ring Set									
(cont'd. next column)											
			(cont'd. next page)								

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-716A</b> (cont'd.)			<b>MK-718F</b> (cont'd.)			<b>MK-728L</b> (cont'd.)			<b>MK-743A</b> (cont'd.)		
(1)	224-41198	Oil Pump	(1)	KC-1556	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set	(1)	260-1121	Gasket Kit
(1)	381-8000	Brass Expansion Plug Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	5024MA	Main Bearing Set
<b>MK-717A</b>			(1)	224-4166	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1484M	Camshaft Bearing Set
(1)	E-178K	Premium Piston Ring Set	(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-645	Cam & Lifter Kit
(1)	8-2130CP	Connecting Rod Bearing Set	<b>MK-718H</b>			(1)	381-8046	Brass Expansion Plug Kit	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	260-1153	Gasket Kit	(1)	E-178K	Premium Piston Ring Set	<b>MK-728M</b>			(1)	224-4166	Oil Pump
(1)	4923MA	Main Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	381-8010	Brass Expansion Plug Kit
(1)	1484M	Camshaft Bearing Set	(1)	260-1152	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-744C</b>		
(1)	KC-645	Cam & Lifter Kit	(1)	5095MA	Main Bearing Set	(1)	260-1144	Gasket Kit	(1)	E-178K	Premium Piston Ring Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	1484M	Camshaft Bearing Set	(1)	5090MA	Main Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	224-4166	Oil Pump	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	1492M	Camshaft Bearing Set	(1)	260-1154	Gasket Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4166	Oil Pump	(1)	KC-1539	Cam & Lifter Kit	(1)	5024MA	Main Bearing Set
<b>MK-717C</b>			(1)	381-8010	Brass Expansion Plug Kit	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	1484M	Camshaft Bearing Set
(1)	E-178K	Premium Piston Ring Set	<b>MK-724A</b>			(1)	224-4148	Oil Pump	(1)	KC-645	Cam & Lifter Kit
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-369K	Premium Piston Ring Set	(1)	381-8046	Brass Expansion Plug Kit	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	260-1153	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	<b>MK-728N</b>			(1)	224-4166	Oil Pump
(1)	5024MA	Main Bearing Set	(1)	260-1149	Gasket Kit	(1)	E-432K	Premium Piston Ring Set	(1)	381-8010	Brass Expansion Plug Kit
(1)	1484M	Camshaft Bearing Set	(1)	7144MA	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-746C</b>		
(1)	KC-645	Cam & Lifter Kit	(1)	1462M	Camshaft Bearing Set	(1)	260-1144	Gasket Kit	(1)	E-425KC 1.00MM	Premium Piston Ring Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KC-702	Cam & Lifter Kit	(1)	7242MA	Main Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set
(1)	224-4166	Oil Pump	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	1492M	Camshaft Bearing Set	(1)	260-1156	Gasket Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-518	Oil Pump Repair Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	6618M	Main Bearing Set
<b>MK-718A</b>			(1)	381-8035	Brass Expansion Plug Kit	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	CS-769	Camshaft
(1)	E-178K	Premium Piston Ring Set	<b>MK-724F</b>			(1)	224-4148	Oil Pump	(1)	KT-1014S	Timing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-369K	Premium Piston Ring Set	(1)	381-8046	Brass Expansion Plug Kit	(1)	KT-1013S	Timing Set - Complete
(1)	260-1152	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	<b>MK-738C</b>			(1)	224-4194	Oil Pump
(1)	5024MA	Main Bearing Set	(1)	260-1149	Gasket Kit	(1)	E-289K	Premium Piston Ring Set	(1)	381-8051	Brass Expansion Plug Kit
(1)	1484M	Camshaft Bearing Set	(1)	7144MA	Main Bearing Set	(1)	8-3320CP	Connecting Rod Bearing Set	<b>MK-747C</b>		
(1)	KC-645	Cam & Lifter Kit	(1)	1462M	Camshaft Bearing Set	(1)	260-1150	Gasket Kit	(1)	E-439KC	Premium Piston Ring Set
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KC-702	Cam & Lifter Kit	(1)	4664M	Main Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set
(1)	224-4166	Oil Pump	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	1422M	Camshaft Bearing Set	(1)	260-1156	Gasket Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-518	Oil Pump Repair Kit	(1)	KC-586	Cam & Lifter Kit	(1)	6618M	Main Bearing Set
<b>MK-718B</b>			(1)	381-8073	Brass Expansion Plug Kit	(1)	KT3-498S	Timing Set - 3 Pc.	(1)	CS-769	Camshaft
(1)	E-178K	Premium Piston Ring Set	<b>MK-727H</b>			(1)	224-519	Oil Pump Repair Kit	(1)	KT-1014S	Timing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	381-8003	Brass Expansion Plug Kit	(1)	KT-1013S	Timing Set - Complete
(1)	260-1152	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-739A</b>			(1)	224-4194	Oil Pump
(1)	5095MA	Main Bearing Set	(1)	260-1143	Gasket Kit	(1)	E-234K	Premium Piston Ring Set	(1)	381-8051	Brass Expansion Plug Kit
(1)	1484M	Camshaft Bearing Set	(1)	5090MA	Main Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	<b>MK-752A</b>		
(1)	KC-645	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set	(1)	260-1129	Gasket Kit	(1)	E-352K	Premium Piston Ring Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KC-715	Cam & Lifter Kit	(1)	4124MA	Main Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	224-4166	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1557M	Camshaft Bearing Set	(1)	260-1161	Gasket Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-633	Cam & Lifter Kit	(1)	4979M	Main Bearing Set
<b>MK-718D</b>			(1)	381-8046	Brass Expansion Plug Kit	(1)	221-2528S	Timing Gear Set	(1)	1443M	Camshaft Bearing Set
(1)	E-178K	Premium Piston Ring Set	<b>MK-727K</b>			(1)	224-4147	Oil Pump	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	260-1152	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-739C</b>			(1)	222-14	Timing Belt
(1)	5095MA	Main Bearing Set	(1)	260-1143	Gasket Kit	(1)	E-234K	Premium Piston Ring Set	(1)	224-41160	Oil Pump
(1)	1484M	Camshaft Bearing Set	(1)	7242MA	Main Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	381-8029	Brass Expansion Plug Kit
(1)	KC-645	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set	(1)	260-1129	Gasket Kit	<b>MK-753A</b>		
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KC-715	Cam & Lifter Kit	(1)	4124MA	Main Bearing Set	(1)	E-442KC	Premium Piston Ring Set
(1)	224-4166	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1557M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-677	Cam & Lifter Kit	(1)	260-1162	Gasket Kit
<b>MK-718E</b>			(1)	381-8046	Brass Expansion Plug Kit	(1)	221-2540S	Timing Gear Set	(1)	4979M	Main Bearing Set
(1)	E-178K	Premium Piston Ring Set	<b>MK-728K</b>			(1)	224-4147	Oil Pump	(1)	1443M	Camshaft Bearing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	260-1152	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-739D</b>			(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	5095MA	Main Bearing Set	(1)	260-1144	Gasket Kit	(1)	E-234K	Premium Piston Ring Set	(1)	222-14	Timing Belt
(1)	1484M	Camshaft Bearing Set	(1)	5090MA	Main Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	224-41127	Oil Pump
(1)	KC-1556	Cam & Lifter Kit	(1)	1492M	Camshaft Bearing Set	(1)	260-1129	Gasket Kit	(1)	381-8029	Brass Expansion Plug Kit
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	4124MA	Main Bearing Set	<b>MK-754A</b>		
(1)	224-4166	Oil Pump	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1557M	Camshaft Bearing Set	(1)	E-441K	Premium Piston Ring Set
(1)	381-8010	Brass Expansion Plug Kit	(1)	224-4148	Oil Pump	(1)	KC-633	Cam & Lifter Kit	(4)	3545A	Connecting Rod Bearing Pair
<b>MK-718F</b>			(1)	381-8046	Brass Expansion Plug Kit	(1)	221-2540S	Timing Gear Set	(1)	260-1162	Gasket Kit
(1)	E-178K	Premium Piston Ring Set	<b>MK-728L</b>			(1)	224-4147	Oil Pump	(1)	4979M	Main Bearing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	1443M	Camshaft Bearing Set
(1)	260-1152	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set	<b>MK-739D</b>			(1)	1460M	Auxiliary Shaft Bearing Set
(1)	5095MA	Main Bearing Set	(1)	260-1144	Gasket Kit	(1)	E-234K	Premium Piston Ring Set	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	1484M	Camshaft Bearing Set	(1)	7242MA	Main Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	222-14	Timing Belt
(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next column)		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-757A</b>			<b>MK-763A</b> (cont'd.)			<b>MK-858A</b> (cont'd.)			<b>MK-878C</b> (cont'd.)		
(1)	E-415K	Premium Piston Ring Set	(1)	381-8029	Brass Expansion Plug Kit	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	<b>MK-765C</b>			(1)	224-41198	Oil Pump	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	260-1166	Gasket Kit	(1)	E-229K	Premium Piston Ring Set	<b>MK-859A</b>			(1)	222-14	Timing Belt
(1)	7295MA	Main Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	E-450K	Premium Piston Ring Set	(1)	224-41160V	Oil Pump
(1)	1493M	Camshaft Bearing Set	(1)	260-1174	Gasket Kit	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	381-8029	Brass Expansion Plug Kit
(1)	KC-733	Cam & Lifter Kit	(1)	4916M	Main Bearing Set	(1)	260-1192	Gasket Kit	<b>MK-879A</b>		
(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	1781M	Camshaft Bearing Set	(1)	6676M	Main Bearing Set	(1)	E-441K	Premium Piston Ring Set
(1)	224-51162	Oil Pump Repair Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	1244M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	221-2764S	Timing Gear Set	(1)	KC-779	Cam & Lifter Kit	(1)	260-1206	Gasket Kit
<b>MK-758A</b>			(1)	224-41124	Oil Pump	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	4979M	Main Bearing Set
(1)	E-415K	Premium Piston Ring Set	(1)	381-8014	Brass Expansion Plug Kit	<b>MK-860A</b>			(1)	1443M	Camshaft Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	<b>MK-768A</b>			(1)	E-222K	Premium Piston Ring Set	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	260-1167	Gasket Kit	(1)	E-296K	Premium Piston Ring Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	7295MA	Main Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	260-1193	Gasket Kit	(1)	222-14	Timing Belt
(1)	1493M	Camshaft Bearing Set	(1)	260-1177	Gasket Kit	(1)	4289M	Main Bearing Set	(1)	224-41160V	Oil Pump
(1)	KC-748	Cam & Lifter Kit	(1)	4907M	Main Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	381-8029	Brass Expansion Plug Kit
(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	1414M	Camshaft Bearing Set	(1)	KC-713	Cam & Lifter Kit	<b>MK-879C</b>		
(1)	224-51162	Oil Pump Repair Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KT3-713	Timing Set - 3 Pc.	(1)	E-441K	Premium Piston Ring Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	224-41198	Oil Pump	(1)	4-3545A	Connecting Rod Bearing Set
<b>MK-760A</b>			(1)	224-41144	Oil Pump	(1)	381-8000	Brass Expansion Plug Kit	(1)	260-1206	Gasket Kit
(1)	E-251K	Premium Piston Ring Set	<b>MK-774A</b>			(1)	E-222K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	260-1169	Gasket Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	260-1193	Gasket Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	4125MA	Main Bearing Set	(1)	260-1189	Gasket Kit	(1)	4289M	Main Bearing Set	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	1204M	Camshaft Bearing Set	(1)	5107M	Main Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	222-14	Timing Belt
(1)	KC-668	Cam & Lifter Kit	(1)	1204M	Camshaft Bearing Set	(1)	KC-713	Cam & Lifter Kit	(1)	224-41160V	Oil Pump
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-674	Cam & Lifter Kit	(1)	KT3-494S	Timing Set - 3 Pc.	(1)	381-8029	Brass Expansion Plug Kit
(1)	224-41118	Oil Pump	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	224-41198	Oil Pump	<b>MK-880A</b>		
(1)	381-8015	Brass Expansion Plug Kit	(1)	224-41143	Oil Pump	(1)	381-8000	Brass Expansion Plug Kit	(1)	E-441K	Premium Piston Ring Set
<b>MK-761A</b>			(1)	381-8018	Brass Expansion Plug Kit	<b>MK-860C</b>			(1)	4-3545A	Connecting Rod Bearing Set
(1)	E-251K	Premium Piston Ring Set	<b>MK-774C</b>			(1)	E-453K	Premium Piston Ring Set	(1)	260-1162	Gasket Kit
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4979M	Main Bearing Set
(1)	260-1170	Gasket Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	260-1276	Gasket Kit	(1)	1443M	Camshaft Bearing Set
(1)	5078MA	Main Bearing Set	(1)	260-1189	Gasket Kit	(1)	6678MA	Main Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	5078MA	Main Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	KC-674	Cam & Lifter Kit	(1)	1204M	Camshaft Bearing Set	(1)	KC-775C	Cam, Lifter & Follower Kit	(1)	222-14	Timing Belt
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-674	Cam & Lifter Kit	(1)	222-71	Timing Belt	(1)	224-41160V	Oil Pump
(1)	224-41143	Oil Pump	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	224-4168	Oil Pump	(1)	381-8029	Brass Expansion Plug Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	224-41143	Oil Pump	<b>MK-868C</b>			<b>MK-882A</b>		
<b>MK-761C</b>			(1)	381-8015	Brass Expansion Plug Kit	(1)	E-453K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>MK-830C</b>			(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-2380CP	Connecting Rod Bearing Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-416KC	Premium Piston Ring Set	(1)	260-1276	Gasket Kit	(1)	260-1208	Gasket Kit
(1)	260-1170	Gasket Kit	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	6678MA	Main Bearing Set	(1)	5130M	Main Bearing Set
(1)	5078MA	Main Bearing Set	(1)	260-1091	Gasket Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1494M	Camshaft Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	7148M	Main Bearing Set	(1)	KC-775C	Cam, Lifter & Follower Kit	(1)	KC-788	Cam & Lifter Kit
(1)	KC-764	Cam & Lifter Kit	(1)	67332AF	Thrust Washer Set	(1)	222-71	Timing Belt	(1)	KT3-505S	Timing Set - 3 Pc.
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	CS-719	Camshaft	(1)	224-4168	Oil Pump	(1)	224-41100	Oil Pump
(1)	224-41143	Oil Pump	(1)	KT-1019S	Timing Set - Complete	<b>MK-869C</b>			<b>MK-883A</b>		
(1)	381-8015	Brass Expansion Plug Kit	(1)	224-41902	Oil Pump	(1)	E-454K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set
<b>MK-761D</b>			(1)	381-8015	Brass Expansion Plug Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set
(1)	E-251K	Premium Piston Ring Set	<b>MK-854A</b>			(1)	260-1093	Gasket Kit	(1)	260-1208	Gasket Kit
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-416KC	Premium Piston Ring Set	(1)	6678MA	Main Bearing Set	(1)	5130M	Main Bearing Set
(1)	260-1170	Gasket Kit	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1494M	Camshaft Bearing Set
(1)	5078MA	Main Bearing Set	(1)	260-1188	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KC-788	Cam & Lifter Kit
(1)	1204M	Camshaft Bearing Set	(1)	7148M	Main Bearing Set	(1)	222-71	Timing Belt	(1)	KT3-505S	Timing Set - 3 Pc.
(1)	KC-764	Cam & Lifter Kit	(1)	67332AF	Thrust Washer Set	(1)	224-4168	Oil Pump	(1)	224-41100	Oil Pump
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	CS-719	Camshaft	<b>MK-878A</b>			<b>MK-884A</b>		
(1)	224-41143	Oil Pump	(1)	KT-1020S	Timing Set - Complete	(1)	E-442KC	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set
(1)	381-8015	Brass Expansion Plug Kit	(1)	224-41902	Oil Pump	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set
<b>MK-763A</b>			(1)	381-8042	Brass Expansion Plug Kit	(1)	260-1206	Gasket Kit	(1)	260-1208	Gasket Kit
(1)	E-352K	Premium Piston Ring Set	<b>MK-858A</b>			(1)	4979M	Main Bearing Set	(1)	5130M	Main Bearing Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	E-450K	Premium Piston Ring Set	(1)	1443M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set
(1)	260-1172	Gasket Kit	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-788	Cam & Lifter Kit
(1)	4979M	Main Bearing Set	(1)	260-1191	Gasket Kit	(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	KT3-505S	Timing Set - 3 Pc.
(1)	1443M	Camshaft Bearing Set	(1)	6676M	Main Bearing Set	(1)	222-14	Timing Belt	(1)	224-41100	Oil Pump
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	224-41127	Oil Pump	(1)	381-8063	Brass Expansion Plug Kit
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>			<b>MK-886A</b>		
(1)	222-14	Timing Belt	<b>MK-858A</b>			(1)	E-442KC	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set
(1)	224-41160	Oil Pump	(1)	E-450K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set	<b>MK-886A</b>		
(cont'd. next column)			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	260-1206	Gasket Kit	(cont'd. next page)		
			(1)	260-1191	Gasket Kit	(1)	4979M	Main Bearing Set			
			(1)	6676M	Main Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	1244M	Camshaft Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set			
			(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>					
			<b>MK-858A</b>			(1)	E-442KC	Premium Piston Ring Set			
			(1)	E-450K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	260-1206	Gasket Kit			
			(1)	260-1191	Gasket Kit	(1)	4979M	Main Bearing Set			
			(1)	6676M	Main Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	1244M	Camshaft Bearing Set	<b>MK-878C</b>					
			(1)	KC-779	Cam & Lifter Kit	(1)	E-442KC	Premium Piston Ring Set			
			<b>MK-858A</b>			(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	E-450K	Premium Piston Ring Set	(1)	260-1206	Gasket Kit			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	4979M	Main Bearing Set			
			(1)	260-1191	Gasket Kit	(1)	1443M	Camshaft Bearing Set			
			(1)	6676M	Main Bearing Set	<b>MK-878C</b>					
			(1)	1244M	Camshaft Bearing Set	(1)	E-442KC	Premium Piston Ring Set			
			(1)	KC-779	Cam & Lifter Kit	(1)	4-3545A	Connecting Rod Bearing Set			
			<b>MK-858A</b>			(1)	260-1206	Gasket Kit			
			(1)	E-450K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	260-1191	Gasket Kit	<b>MK-878C</b>					
			(1)	6676M	Main Bearing Set	(1)	E-442KC	Premium Piston Ring Set			
			(1)	1244M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>					
			<b>MK-858A</b>			(1)	260-1206	Gasket Kit			
			(1)	E-450K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	260-1191	Gasket Kit	<b>MK-878C</b>					
			(1)	6676M	Main Bearing Set	(1)	E-442KC	Premium Piston Ring Set			
			(1)	1244M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>					
			<b>MK-858A</b>			(1)	260-1206	Gasket Kit			
			(1)	E-450K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	260-1191	Gasket Kit	<b>MK-878C</b>					
			(1)	6676M	Main Bearing Set	(1)	E-442KC	Premium Piston Ring Set			
			(1)	1244M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>					
			<b>MK-858A</b>			(1)	260-1206	Gasket Kit			
			(1)	E-450K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set			
			(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set			
			(1)	260-1191	Gasket Kit	<b>MK-878C</b>					
			(1)	6676M	Main Bearing Set	(1)	E-442KC	Premium Piston Ring Set			
			(1)	1244M	Camshaft Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set			
			(1)	KC-779	Cam & Lifter Kit	<b>MK-878C</b>					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MK-886A</b> (cont'd.)			<b>MKF-6003A</b> (cont'd.)			<b>MKF-6038C</b>			<b>MKF-613E</b> (cont'd.)		
(1)	6-3830CPA	Connecting Rod Bearing Set	(8)	L-2404F	Power Forged Piston	(1)	E-251K	Premium Piston Ring Set	(1)	4400MA	Main Bearing Set
(1)	260-1211	Gasket Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	7295MA	Main Bearing Set	<b>MKF-6023A</b>			(1)	260-1269	Gasket Kit	(1)	KC-774	Cam & Lifter Kit
(1)	1493M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	4663M	Main Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.
(1)	KC-748	Cam & Lifter Kit	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	224-4154	Oil Pump
(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	260-1244	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(8)	L-2377F	Power Forged Piston
(1)	224-51162	Oil Pump Repair Kit	(1)	4663M	Main Bearing Set	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	381-8009	Brass Expansion Plug Kit
(1)	381-8053	Brass Expansion Plug Kit	(1)	1235M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	<b>MKF-6151A</b>		
<b>MK-888A</b>			(1)	KC-766	Cam & Lifter Kit	<b>MKF-6038D</b>			(1)	E-251K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	8-2555CP	Connecting Rod Bearing Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	260-1478	Gasket Kit
(1)	260-1213A	Gasket Kit	(8)	L-2486F 30	Power Forged Piston	(1)	260-1269	Gasket Kit	(1)	4663M	Main Bearing Set
(1)	4125MA	Main Bearing Set	(1)	381-8007	Brass Expansion Plug Kit	(1)	4663M	Main Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	1204M	Camshaft Bearing Set	<b>MKF-6024C</b>			(1)	KC-808	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	KC-761	Cam & Lifter Kit	(1)	E-356K	Premium Piston Ring Set	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	224-4146A	Oil Pump
(1)	KT3-163SA	Timing Set - 3 Pc.	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(8)	L-2403NF	Power Forged Piston
(1)	224-41118	Oil Pump	(1)	260-1243	Gasket Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
(1)	381-8015	Brass Expansion Plug Kit	(1)	4663M	Main Bearing Set	<b>MKF-6086C</b>			<b>MKF-627C</b>		
<b>MK-891A</b>			(1)	1235M	Camshaft Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	E-476K	Premium Piston Ring Set	(1)	KC-766	Cam & Lifter Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3380CPA	Connecting Rod Bearing Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1418	Gasket Kit	(1)	260-1126	Gasket Kit
(1)	260-1214	Gasket Kit	(1)	224-4146	Oil Pump	(1)	4400MA	Main Bearing Set	(1)	5078M	Main Bearing Set
(1)	4979M	Main Bearing Set	(8)	L-2486F 30	Power Forged Piston	(1)	1404M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-774	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit
(1)	1460M	Auxiliary Shaft Bearing Set	<b>MKF-6024D</b>			(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	E-356K	Premium Piston Ring Set	(1)	224-4154G	Oil Pump	(1)	224-41143	Oil Pump
(1)	222-14	Timing Belt	(1)	8-2555CP	Connecting Rod Bearing Set	(8)	L-2377F	Power Forged Piston	(1)	L-2446F	Power Forged Piston
(1)	224-41160	Oil Pump	(1)	260-1243	Gasket Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	381-8029	Brass Expansion Plug Kit	(1)	4663M	Main Bearing Set	<b>MKF-6115A</b>			<b>MKF-627D</b>		
<b>MK-896A</b>			(1)	1235M	Camshaft Bearing Set	(1)	E-458K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	E-442KC	Premium Piston Ring Set	(1)	KC-711	Cam & Lifter Kit	(1)	8-2600CP	Connecting Rod Bearing Set	(1)	8-3380CPA	Connecting Rod Bearing Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1445	Gasket Kit	(1)	260-1126	Gasket Kit
(1)	260-1218	Gasket Kit	(1)	224-4146	Oil Pump	(1)	4125M	Main Bearing Set	(1)	5078M	Main Bearing Set
(1)	4979M	Main Bearing Set	(8)	L-2486F 30	Power Forged Piston	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-760	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit
(1)	1460M	Auxiliary Shaft Bearing Set	<b>MKF-6037A</b>			(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-163SA	Timing Set - 3 Pc.
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	E-251K	Premium Piston Ring Set	(1)	224-41118	Oil Pump	(1)	224-41143	Oil Pump
(1)	222-14	Timing Belt	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	L-2488F	Power Forged Piston	(8)	L-2446F	Power Forged Piston
(1)	224-41127	Oil Pump	(1)	260-1268	Gasket Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	381-8029	Brass Expansion Plug Kit	(1)	4663M	Main Bearing Set	<b>MKF-6116A</b>			<b>MKF-630C</b>		
<b>MK-898A</b>			(1)	1235M	Camshaft Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	E-481K	Premium Piston Ring Set	(1)	KC-274	Cam & Lifter Kit	(1)	8-3380CPA	Connecting Rod Bearing Set	(1)	8-2555CP	Connecting Rod Bearing Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1446	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	260-1220	Gasket Kit	(1)	224-4146	Oil Pump	(1)	5078M	Main Bearing Set	(1)	4663M	Main Bearing Set
(1)	6101MA	Main Bearing Set	(8)	L-2403NF	Power Forged Piston	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	1838M	Camshaft Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KC-814	Cam & Lifter Kit	<b>MKF-6037C</b>			(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	KT3-60S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	224-41143	Oil Pump	(1)	224-4146	Oil Pump
(1)	224-43431	Oil Pump	(1)	8-2555CP	Connecting Rod Bearing Set	(8)	L-2446F	Power Forged Piston	(1)	L-2403NF	Power Forged Piston
(1)	381-8064	Brass Expansion Plug Kit	(1)	260-1268	Gasket Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
<b>MK-898C</b>			(1)	4663M	Main Bearing Set	<b>MKF-6116A</b>			<b>MKF-630D</b>		
(1)	E-481K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	8-3380CPA	Connecting Rod Bearing Set	(1)	8-2555CP	Connecting Rod Bearing Set
(1)	260-1220	Gasket Kit	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	260-1446	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	7245MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	5078M	Main Bearing Set	(1)	4663M	Main Bearing Set
(1)	1838M	Camshaft Bearing Set	(8)	L-2403NF	Power Forged Piston	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-814	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-60S	Timing Set - 3 Pc.	<b>MKF-6038A</b>			(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-43431	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	224-41143	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8064	Brass Expansion Plug Kit	(1)	8-2555CP	Connecting Rod Bearing Set	(8)	L-2446F	Power Forged Piston	(1)	L-2403NF	Power Forged Piston
<b>MK-898C</b>			(1)	260-1268	Gasket Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
(1)	E-481K	Premium Piston Ring Set	(1)	4663M	Main Bearing Set	<b>MKF-613C</b>			<b>MKF-630D</b>		
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	260-1220	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2555CP	Connecting Rod Bearing Set
(1)	7245MA	Main Bearing Set	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	260-1009	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	1838M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	5078M	Main Bearing Set	(1)	4663M	Main Bearing Set
(1)	KC-814	Cam & Lifter Kit	(8)	L-2403NF	Power Forged Piston	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KT3-60S	Timing Set - 3 Pc.	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	224-43431	Oil Pump	<b>MKF-6038A</b>			(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	381-8064	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	224-41143	Oil Pump	(1)	224-4146	Oil Pump
<b>MK-898C</b>			(1)	8-2555CP	Connecting Rod Bearing Set	(8)	L-2446F	Power Forged Piston	(1)	L-2403NF	Power Forged Piston
(1)	E-481K	Premium Piston Ring Set	(1)	260-1269	Gasket Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	4663M	Main Bearing Set	<b>MKF-613E</b>			<b>MKF-630F</b>		
(1)	260-1220	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4907M	Main Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2555CP	Connecting Rod Bearing Set
(1)	1414M	Camshaft Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1009	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	KC-648	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	4400MA	Main Bearing Set	(1)	4663M	Main Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(8)	L-2403NF	Power Forged Piston	(1)	1404M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	224-41144	Oil Pump	(1)	381-8059	Brass Expansion Plug Kit	(1)	KC-660	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
<b>MKF-6003A</b>			(1)	260-1269	Gasket Kit	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	E-296K	Premium Piston Ring Set	(1)	4663M	Main Bearing Set	(1)	224-4154	Oil Pump	(1)	224-4146	Oil Pump
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(8)	L-2377F	Power Forged Piston	(1)	L-2256F	Power Forged Piston
(1)	260-1223	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit
(1)	4907M	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKF-613E</b>			<b>MKF-613E</b>		
(1)	1414M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	E-233K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	KC-648	Cam & Lifter Kit	(8)	L-2403NF	Power Forged Piston	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1009	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	224-41144	Oil Pump	<b>MKF-6038A</b>			<b>MKF-613E</b>			<b>MKF-613E</b>		
<b>MKF-6003A</b>			(1)	E-251K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	E-296K	Premium Piston Ring Set	(1)	8-2555CP	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	260-1269	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	260-1223	Gasket Kit	(1)	4663M	Main Bearing Set	<b>MKF-613E</b>			<b>MKF-613E</b>		
(1)	4907M	Main Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	1414M	Camshaft Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1009	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	<b>MKF-613E</b>			<b>MKF-613E</b>		
(1)	224-41144	Oil Pump	(8)	L-2403NF	Power Forged Piston	(1)	E-233K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
<b>MKF-6003A</b>			(1)	381-8059	Brass Expansion Plug Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
<b>MKF-6003A</b>			(1)	260-1269	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	E-296K	Premium Piston Ring Set	(1)	4663M	Main Bearing Set	<b>MKF-613E</b>			<b>MKF-6</b>		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-101M</b>			<b>MKP-1012E</b> (cont'd.)			<b>MKP-1024D</b> (cont'd.)			<b>MKP-103C</b>		
(1)	E-180X	Standard Piston Ring Set	(1)	7242MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-196X	Standard Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	(8)	534NP	Cast Piston	(1)	6-3695RA	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1004	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	<b>MKP-1026A</b>			(1)	5070M	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	E-356X	Standard Piston Ring Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(6)	531P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-380	Cam & Lifter Kit
(1)	KT3-494SA3	Timing Set - 3 Pc.	(1)	381-8046	Brass Expansion Plug Kit	(1)	260-1246	Gasket Kit	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	<b>MKP-1019A</b>			(1)	4663MA	Main Bearing Set	(1)	224-4165C	Oil Pump
(8)	381NP	Cast Piston	(1)	E-459X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(6)	244NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	6-1020A	Connecting Rod Bearing Set	(1)	KC-766	Cam & Lifter Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MKP-101N</b>			(1)	260-1239	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-1036A</b>		
(1)	E-180X	Standard Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-217X	Standard Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	1463M	Camshaft Bearing Set	(8)	536NP	Cast Piston	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KC-756	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1267	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-1026C</b>			(1)	4124MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	E-356X	Standard Piston Ring Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(6)	640P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	(1)	381-8049	Brass Expansion Plug Kit	(1)	260-1246	Gasket Kit	(1)	221-2528S	Timing Gear Set
(1)	224-41173	Oil Pump	<b>MKP-102A</b>			(1)	4663MA	Main Bearing Set	(1)	224-4147	Oil Pump
(8)	H395P	Cast Piston	(1)	E-196X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(6)	H909P	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	6-2375CP	Connecting Rod Bearing Set	(1)	KC-793	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MKP-101P</b>			(1)	260-1004	Gasket Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-1037A</b>		
(1)	E-180X	Standard Piston Ring Set	(1)	4092M	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-251X	Standard Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	1454M	Camshaft Bearing Set	(8)	536NP	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KC-380	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1268	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	KT3-495SA	Timing Set - 3 Pc.	<b>MKP-1026E</b>			(1)	4663MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(1)	224-4165C	Oil Pump	(1)	E-356X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(6)	244NP	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-494SA3	Timing Set - 3 Pc.	(1)	381-8012	Brass Expansion Plug Kit	(1)	260-1246	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	<b>MKP-1020A</b>			(1)	4663MA	Main Bearing Set	(1)	224-4146	Oil Pump
(8)	H395P	Cast Piston	(1)	E-459X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(8)	423NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	6-1020A	Connecting Rod Bearing Set	(1)	KC-711	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>MKP-101QA</b>			(1)	260-1240	Gasket Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-1037C</b>		
(1)	E-450X	Standard Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-251X	Standard Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set	(1)	1463M	Camshaft Bearing Set	(8)	536NP	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1231	Gasket Kit	(1)	KC-756	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1268	Gasket Kit
(1)	4123MA	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-1027A</b>			(1)	4663MA	Main Bearing Set
(1)	1202M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	E-356X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-708A	Cam & Lifter Kit	(6)	640P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit
(1)	221-2525S	Timing Gear Set	(1)	381-8058	Brass Expansion Plug Kit	(1)	260-1247	Gasket Kit	(1)	KT3-163S	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	<b>MKP-1021A</b>			(1)	4663MA	Main Bearing Set	(1)	224-4146	Oil Pump
(4)	1108P	Cast Piston	(1)	E-459X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(8)	423NP	Cast Piston
(1)	381-8006	Brass Expansion Plug Kit	(1)	6-1020A	Connecting Rod Bearing Set	(1)	KC-793	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>MKP-1011B</b>			(1)	260-1241	Gasket Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-104A</b>		
(1)	E-432X	Standard Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-196X	Standard Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1463M	Camshaft Bearing Set	(8)	536NP	Cast Piston	(1)	6-3695RA	Connecting Rod Bearing Set
(1)	260-1232	Gasket Kit	(1)	KC-763	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1038	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-1027C</b>			(1)	5070M	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	E-356X	Standard Piston Ring Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-1539	Cam & Lifter Kit	(6)	640P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-709	Cam & Lifter Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8058	Brass Expansion Plug Kit	(1)	260-1247	Gasket Kit	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-4148	Oil Pump	<b>MKP-1024C</b>			(1)	4663MA	Main Bearing Set	(1)	224-4165C	Oil Pump
(6)	516P	Cast Piston	(1)	E-356X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(6)	244NP	Cast Piston
(1)	381-8046	Brass Expansion Plug Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-808	Cam & Lifter Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MKP-1011C</b>			(1)	260-1243	Gasket Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-105D</b>		
(1)	E-432X	Standard Piston Ring Set	(1)	4663MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-197X	Standard Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(8)	536NP	Cast Piston	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1232	Gasket Kit	(1)	KC-766	Cam & Lifter Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1002	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-103A</b>			(1)	4222M	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	E-196X	Standard Piston Ring Set	(1)	1439M	Camshaft Bearing Set
(1)	KC-1539	Cam & Lifter Kit	(8)	534NP	Cast Piston	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	KC-261	Cam & Lifter Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1004	Gasket Kit	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	224-4152	Oil Pump	<b>MKP-1024D</b>			(1)	5070M	Main Bearing Set	(1)	224-41146	Oil Pump
(6)	516P	Cast Piston	(1)	E-356X	Standard Piston Ring Set	(1)	1454M	Camshaft Bearing Set	(6)	302NP	Cast Piston
(1)	381-8046	Brass Expansion Plug Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-380	Cam & Lifter Kit	(1)	381-8013	Brass Expansion Plug Kit
<b>MKP-1012E</b>			(1)	260-1243	Gasket Kit	(1)	KT3-495SA	Timing Set - 3 Pc.	<b>MKP-105G</b>		
(1)	E-478X	Standard Piston Ring Set	(1)	4663MA	Main Bearing Set	(1)	224-4165C	Oil Pump	(1)	E-197X	Standard Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set	(6)	244NP	Cast Piston	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1233	Gasket Kit	(1)	KC-711	Cam & Lifter Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	260-1002	Gasket Kit
		(cont'd. next column)			(cont'd. next column)						(cont'd. next page)

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-105G</b> (cont'd.)			<b>MKP-107B</b> (cont'd.)			<b>MKP-1093A</b>			<b>MKP-1103C</b> (cont'd.)		
(1)	4222M	Main Bearing Set	(1)	224-4147	Oil Pump	(1)	E-454X	Standard Piston Ring Set	(1)	6695MA	Main Bearing Set
(1)	1439M	Camshaft Bearing Set	(6)	H909P	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	KC-790	Cam & Lifter Kit
(1)	KC-448	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	260-1425	Gasket Kit	(1)	222-67	Timing Belt
(1)	KT3-351S	Timing Set - 3 Pc.	<b>MKP-108A</b>			(1)	6678MA	Main Bearing Set	(1)	224-41972	Oil Pump
(1)	224-41146	Oil Pump				(1)	E-219X	Standard Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set
(6)	302NP	Cast Piston	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	KC-785C	Cam, Lifter & Follower Kit	<b>MKP-1106A</b>		
(1)	381-8013	Brass Expansion Plug Kit	(1)	260-1002	Gasket Kit	(1)	222-153	Timing Belt			
<b>MKP-106A</b>			(1)	4290M	Main Bearing Set	(1)	224-4168	Oil Pump	(1)	4-1035CP	Connecting Rod Bearing Set
(1)	6-2555A	Connecting Rod Bearing Set	(1)	1439M	Camshaft Bearing Set	(1)	527P	Cast Piston	(1)	260-1436	Gasket Kit
(1)	260-1005	Gasket Kit	(1)	KC-448	Cam & Lifter Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	5130M	Main Bearing Set
(1)	4124MA	Main Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.	<b>MKP-1093C</b>			(1)	1494M	Camshaft Bearing Set
(1)	1203M	Camshaft Bearing Set	(1)	224-41146	Oil Pump				(1)	E-454X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(6)	275NP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	KT3-505S	Timing Set - 3 Pc.
(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit	(1)	260-1425	Gasket Kit	(1)	224-41100	Oil Pump
(1)	224-4147	Oil Pump	<b>MKP-108C</b>			(1)	6678MA	Main Bearing Set	(4)	489P	Cast Piston
(6)	H909P	Cast Piston				(1)	E-219X	Standard Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	381-8006	Brass Expansion Plug Kit	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	E-465X	Standard Piston Ring Set
<b>MKP-106C</b>			(1)	260-1002	Gasket Kit	(1)	222-153	Timing Belt	(1)	4-1035CP	Connecting Rod Bearing Set
(1)	E-217X	Standard Piston Ring Set	(1)	4290M	Main Bearing Set	(1)	224-4168	Oil Pump	(1)	260-1437	Gasket Kit
(1)	6-2555A	Connecting Rod Bearing Set	(1)	1439M	Camshaft Bearing Set	(4)	571CP	Cast Piston	(1)	5130M	Main Bearing Set
(1)	260-1005	Gasket Kit	(1)	KC-658	Cam & Lifter Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	1494M	Camshaft Bearing Set
(1)	4124MA	Main Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.	<b>MKP-1097A</b>			(1)	KC-788	Cam & Lifter Kit
(1)	1557M	Camshaft Bearing Set	(1)	224-41146	Oil Pump				(1)	E-454X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(6)	275NP	Cast Piston	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	224-41100	Oil Pump
(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit	(1)	260-1427	Gasket Kit	(4)	489P	Cast Piston
(1)	224-4147	Oil Pump	<b>MKP-108D</b>			(1)	6678MA	Main Bearing Set	<b>MKP-1110A</b>		
(6)	H909P	Cast Piston				(1)	E-219X	Standard Piston Ring Set			
(1)	381-8006	Brass Expansion Plug Kit	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	6-1220RA	Connecting Rod Bearing Set
<b>MKP-106D</b>			(1)	260-1002	Gasket Kit	(1)	222-132	Timing Belt	(1)	260-1210	Gasket Kit
(1)	E-217X	Standard Piston Ring Set	(1)	5071M	Main Bearing Set	(1)	224-4168	Oil Pump	(1)	7011MA	Main Bearing Set
(6)	2555A	Connecting Rod Bearing Pair	(1)	1439M	Camshaft Bearing Set	(4)	533P	Cast Piston	(1)	1843M	Camshaft Bearing Set
(1)	260-1005	Gasket Kit	(1)	KC-658	Cam & Lifter Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	KC-787	Cam & Lifter Kit
(1)	4124MA	Main Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.	<b>MKP-1098A</b>			(1)	KT3-374S	Timing Set - 3 Pc.
(1)	1203M	Camshaft Bearing Set	(1)	224-41146	Oil Pump				(1)	E-536X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(6)	275NP	Cast Piston	(1)	6-1460A	Connecting Rod Bearing Set	(6)	H497P	Cast Piston
(1)	221-2528S	Timing Gear Set	(1)	381-8013	Brass Expansion Plug Kit	(1)	260-1428	Gasket Kit	(1)	381-8072	Brass Expansion Plug Kit
(1)	224-4147	Oil Pump	<b>MKP-1086C</b>			(1)	7050MA	Main Bearing Set	<b>MKP-1111A</b>		
(6)	H909P	Cast Piston				(1)	E-233X	Standard Piston Ring Set			
(1)	381-8006	Brass Expansion Plug Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	KC-842	Cam & Lifter Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>MKP-106E</b>			(1)	260-1418	Gasket Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	260-1441	Gasket Kit
(1)	E-217X	Standard Piston Ring Set	(1)	4400MA	Main Bearing Set	(1)	224-4166	Oil Pump	(1)	7295MA	Main Bearing Set
(6)	2555A	Connecting Rod Bearing Pair	(1)	1404M	Camshaft Bearing Set	(6)	656P	Cast Piston	(1)	1886M	Camshaft Bearing Set
(1)	260-1005	Gasket Kit	(1)	KC-774	Cam & Lifter Kit	(1)	381-8061	Brass Expansion Plug Kit	(1)	KC-786	Cam & Lifter Kit
(1)	4124MA	Main Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	<b>MKP-1098C</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	1557M	Camshaft Bearing Set	(1)	224-4154G	Oil Pump				(1)	E-536X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(8)	H518CP	Cast Piston	(1)	6-1460A	Connecting Rod Bearing Set	(6)	H523P	Cast Piston
(1)	221-2528S	Timing Gear Set	(1)	381-8009	Brass Expansion Plug Kit	(1)	260-1428	Gasket Kit	(1)	381-8053	Brass Expansion Plug Kit
(1)	224-4147	Oil Pump	<b>MKP-1087A</b>			(1)	7050MA	Main Bearing Set	<b>MKP-1111C</b>		
(6)	H909P	Cast Piston				(1)	E-229X	Standard Piston Ring Set			
(1)	381-8006	Brass Expansion Plug Kit	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	KC-829	Cam & Lifter Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>MKP-106F</b>			(1)	260-1418	Gasket Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	260-1441	Gasket Kit
(1)	E-217X	Standard Piston Ring Set	(1)	4916M	Main Bearing Set	(1)	224-4166	Oil Pump	(1)	7295MA	Main Bearing Set
(1)	6-2555A	Connecting Rod Bearing Set	(1)	1781M	Camshaft Bearing Set	(6)	656P	Cast Piston	(1)	1886M	Camshaft Bearing Set
(1)	260-1044	Gasket Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	381-8061	Brass Expansion Plug Kit	(1)	KC-786	Cam & Lifter Kit
(1)	4124MA	Main Bearing Set	(1)	221-2764S	Timing Gear Set	<b>MKP-1099C</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	1557M	Camshaft Bearing Set	(1)	224-41124	Oil Pump				(1)	E-536X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(6)	H519P	Cast Piston	(1)	6-1460A	Connecting Rod Bearing Set	(6)	H523P	Cast Piston
(1)	221-2528S	Timing Gear Set	(1)	381-8071	Brass Expansion Plug Kit	(1)	260-1429	Gasket Kit	(1)	381-8053	Brass Expansion Plug Kit
(1)	224-4147	Oil Pump	<b>MKP-1087A</b>			(1)	7050MA	Main Bearing Set	<b>MKP-1112B</b>		
(6)	H909P	Cast Piston				(1)	E-234X	Standard Piston Ring Set			
(1)	381-8006	Brass Expansion Plug Kit	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	KC-1501	Cam & Lifter Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>MKP-107A</b>			(1)	260-1424	Gasket Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	260-1442	Gasket Kit
(1)	E-217X	Standard Piston Ring Set	(1)	4289M	Main Bearing Set	(1)	224-4166	Oil Pump	(1)	7295MA	Main Bearing Set
(1)	6-2555A	Connecting Rod Bearing Set	(1)	1244M	Camshaft Bearing Set	(6)	656P	Cast Piston	(1)	1886M	Camshaft Bearing Set
(1)	260-1044	Gasket Kit	(1)	KC-809	Cam & Lifter Kit	(1)	381-8061	Brass Expansion Plug Kit	(1)	KC-860	Cam & Lifter Kit
(1)	4124MA	Main Bearing Set	(1)	KT3-4SR48	Timing Set - 3 Pc.	<b>MKP-1099C</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	1557M	Camshaft Bearing Set	(1)	224-41198	Oil Pump				(1)	E-536X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	(6)	677P	Cast Piston	(1)	6-1460A	Connecting Rod Bearing Set	(6)	H523P	Cast Piston
(1)	221-2528S	Timing Gear Set	<b>MKP-1092A</b>			(1)	260-1429	Gasket Kit	(1)	381-8053	Brass Expansion Plug Kit
(1)	224-4147	Oil Pump				(1)	E-234X	Standard Piston Ring Set	(1)	7050MA	Main Bearing Set
(6)	H909P	Cast Piston	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	1790M	Camshaft Bearing Set	(1)	E-471X	Standard Piston Ring Set
(1)	381-8006	Brass Expansion Plug Kit	(1)	260-1424	Gasket Kit	(1)	KC-1501	Cam & Lifter Kit	(1)	6-3830CPA	Connecting Rod Bearing Set
<b>MKP-107B</b>			(1)	4289M	Main Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	260-1442	Gasket Kit
(1)	E-217X	Standard Piston Ring Set	(1)	1244M	Camshaft Bearing Set	(1)	224-4166	Oil Pump	(1)	7295MA	Main Bearing Set
(6)	2555A	Connecting Rod Bearing Pair	(1)	KC-809	Cam & Lifter Kit	(6)	656P	Cast Piston	(1)	1886M	Camshaft Bearing Set
(1)	260-1044	Gasket Kit	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	381-8061	Brass Expansion Plug Kit	(1)	KC-860	Cam & Lifter Kit
(1)	4124MA	Main Bearing Set	(1)	224-41198	Oil Pump	<b>MKP-1103C</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.
(1)	1557M	Camshaft Bearing Set	(6)	677P	Cast Piston				(1)	E-470X	Standard Piston Ring Set
(1)	KC-551	Cam & Lifter Kit	<b>MKP-1092A</b>			(1)	4-1400AA	Connecting Rod Bearing Set	(6)	H523P	Cast Piston
(1)	221-2528S	Timing Gear Set				(1)	E-234X	Standard Piston Ring Set	(1)	260-1205	Gasket Kit
(1)	224-4147	Oil Pump	(1)	6-3310CPA	Connecting Rod Bearing Set	(cont'd. next column)					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-1112C</b>			<b>MKP-1116A</b> (cont'd.)			<b>MKP-1121C</b> (cont'd.)			<b>MKP-1135A</b> (cont'd.)		
(1)	E-471X	Standard Piston Ring Set	(1)	5078MA	Main Bearing Set	(1)	224-41118	Oil Pump	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(8)	517CP	Cast Piston	(1)	260-1462	Gasket Kit
(1)	260-1442	Gasket Kit	(1)	KC-764	Cam & Lifter Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	6690MA	Main Bearing Set
(1)	7295MA	Main Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	<b>MKP-1123A</b>			(1)	1756M	Camshaft Bearing Set
(1)	1886M	Camshaft Bearing Set	(1)	224-41143	Oil Pump	(1)	E-296X	Standard Piston Ring Set	(1)	KC-781	Cam & Lifter Kit
(1)	KC-860	Cam & Lifter Kit	(8)	463P	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	221-2544S	Timing Gear Set
(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1452	Gasket Kit	(4)	H547P	Cast Piston
(1)	224-43567	Oil Pump	<b>MKP-112C</b>			(1)	4907M	Main Bearing Set	(1)	381-8074	Brass Expansion Plug Kit
(6)	H523P	Cast Piston	(1)	E-229X	Standard Piston Ring Set	(1)	1414M	Camshaft Bearing Set	<b>MKP-1136A</b>		
(1)	381-8053	Brass Expansion Plug Kit	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit	(1)	E-384X	Standard Piston Ring Set
<b>MKP-1113B</b>			(1)	260-1006	Gasket Kit	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	E-471X	Standard Piston Ring Set	(1)	4916M	Main Bearing Set	(1)	224-41144	Oil Pump	(1)	260-1463	Gasket Kit
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	1450M	Camshaft Bearing Set	(8)	H582P	Cast Piston	(1)	6690MA	Main Bearing Set
(1)	260-1443	Gasket Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	1756M	Camshaft Bearing Set
(1)	7295MA	Main Bearing Set	(1)	221-2750LS	Timing Gear Set	<b>MKP-1124A</b>			(1)	KC-781	Cam & Lifter Kit
(1)	1886M	Camshaft Bearing Set	(6)	352NP	Cast Piston	(1)	E-296X	Standard Piston Ring Set	(1)	221-2544S	Timing Gear Set
(1)	KC-786	Cam & Lifter Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	8-3360CPA	Connecting Rod Bearing Set	(4)	H547CP	Cast Piston
(1)	KT3-365SA1	Timing Set - 3 Pc.	<b>MKP-112D</b>			(1)	260-1453	Gasket Kit	(1)	381-8074	Brass Expansion Plug Kit
(1)	224-51380	Oil Pump Repair Kit	(1)	E-229X	Standard Piston Ring Set	(1)	4907M	Main Bearing Set	<b>MKP-114A</b>		
(6)	H523P	Cast Piston	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	E-234X	Standard Piston Ring Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	260-1006	Gasket Kit	(1)	KC-648	Cam & Lifter Kit	(1)	6-2020CP	Connecting Rod Bearing Set
<b>MKP-1113C</b>			(1)	4916M	Main Bearing Set	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit
(1)	E-471X	Standard Piston Ring Set	(1)	1450M	Camshaft Bearing Set	(1)	224-41144	Oil Pump	(1)	4124MA	Main Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	KC-1230	Cam & Lifter Kit	(8)	H582P	Cast Piston	(1)	1557M	Camshaft Bearing Set
(1)	260-1443	Gasket Kit	(1)	221-2750LS	Timing Gear Set	(1)	381-8018	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit
(1)	7295MA	Main Bearing Set	(6)	1109P	Cast Piston	<b>MKP-113C</b>			(1)	221-2525S	Timing Gear Set
(1)	1886M	Camshaft Bearing Set	(1)	381-8014	Brass Expansion Plug Kit	(1)	E-233X	Standard Piston Ring Set	(1)	224-4147	Oil Pump
(1)	KC-786	Cam & Lifter Kit	<b>MKP-112E</b>			(1)	8-3190A	Connecting Rod Bearing Set	(6)	403P	Cast Piston
(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	E-229X	Standard Piston Ring Set	(1)	260-1009	Gasket Kit	(1)	381-8006	Brass Expansion Plug Kit
(1)	224-43567	Oil Pump	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set	<b>MKP-114C</b>		
(6)	H523P	Cast Piston	(1)	260-1006	Gasket Kit	(1)	1404M	Camshaft Bearing Set	(1)	E-234X	Standard Piston Ring Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	4916M	Main Bearing Set	(1)	KC-660	Cam & Lifter Kit	(1)	6-2020CP	Connecting Rod Bearing Set
<b>MKP-1114B</b>			(1)	1450M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit
(1)	E-471X	Standard Piston Ring Set	(1)	KC-1230	Cam & Lifter Kit	(1)	224-4154	Oil Pump	(1)	4124MA	Main Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	221-2764S	Timing Gear Set	(8)	H661CP	Cast Piston	(1)	1557M	Camshaft Bearing Set
(1)	260-1444	Gasket Kit	(1)	224-41124	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit
(1)	7295MA	Main Bearing Set	(6)	H519P	Cast Piston	<b>MKP-113E</b>			(1)	221-2528S	Timing Gear Set
(1)	1886M	Camshaft Bearing Set	(1)	381-8014	Brass Expansion Plug Kit	(1)	E-233X	Standard Piston Ring Set	(1)	224-4147	Oil Pump
(1)	KC-860	Cam & Lifter Kit	<b>MKP-1120A</b>			(1)	8-3190A	Connecting Rod Bearing Set	(6)	403P	Cast Piston
(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	E-446X	Standard Piston Ring Set	(1)	260-1009	Gasket Kit	(1)	381-8006	Brass Expansion Plug Kit
(1)	224-51380	Oil Pump Repair Kit	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set	<b>MKP-114D</b>		
(6)	H523P	Cast Piston	(1)	260-1222	Gasket Kit	(1)	1404M	Camshaft Bearing Set	(1)	E-234X	Standard Piston Ring Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	7011MA	Main Bearing Set	(1)	KC-774	Cam & Lifter Kit	(1)	6-2020CP	Connecting Rod Bearing Set
<b>MKP-1114C</b>			(1)	1843M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit
(1)	E-471X	Standard Piston Ring Set	(1)	KC-787	Cam & Lifter Kit	(1)	224-4154	Oil Pump	(1)	4124MA	Main Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	KT3-374S	Timing Set - 3 Pc.	(8)	H661CP	Cast Piston	(1)	1203M	Camshaft Bearing Set
(1)	260-1444	Gasket Kit	(1)	224-41101	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit
(1)	7295MA	Main Bearing Set	(6)	H497P	Cast Piston	<b>MKP-113A</b>			(1)	221-2525S	Timing Gear Set
(1)	1886M	Camshaft Bearing Set	(1)	381-8072	Brass Expansion Plug Kit	(1)	E-531X	Standard Piston Ring Set	(1)	224-4147	Oil Pump
(1)	KC-860	Cam & Lifter Kit	<b>MKP-1121A</b>			(1)	4-2020CP	Connecting Rod Bearing Set	(6)	1107P	Cast Piston
(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	E-458X	Standard Piston Ring Set	(1)	260-1227	Gasket Kit	(1)	381-8006	Brass Expansion Plug Kit
(1)	224-43567	Oil Pump	(1)	8-2600A	Connecting Rod Bearing Set	(1)	7047MA	Main Bearing Set	<b>MKP-114E</b>		
(6)	H523P	Cast Piston	(1)	260-1451	Gasket Kit	(1)	1485M	Camshaft Bearing Set	(1)	E-234X	Standard Piston Ring Set
(1)	381-8053	Brass Expansion Plug Kit	(1)	4125MA	Main Bearing Set	(1)	KC-811	Cam & Lifter Kit	(1)	6-2020CP	Connecting Rod Bearing Set
<b>MKP-1115A</b>			(1)	1204M	Camshaft Bearing Set	(1)	KT3-370S	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit
(1)	E-458X	Standard Piston Ring Set	(1)	KC-668	Cam & Lifter Kit	(1)	224-4151	Oil Pump	(1)	4124MA	Main Bearing Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(4)	569P	Cast Piston	(1)	1557M	Camshaft Bearing Set
(1)	260-1445	Gasket Kit	(1)	224-41118	Oil Pump	<b>MKP-1134A</b>			(1)	KC-677	Cam & Lifter Kit
(1)	4125MA	Main Bearing Set	(8)	517CP	Cast Piston	(1)	E-384X	Standard Piston Ring Set	(1)	221-2525S	Timing Gear Set
(1)	1204M	Camshaft Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	224-4147	Oil Pump
(1)	KC-760	Cam & Lifter Kit	<b>MKP-1121C</b>			(1)	260-1464	Gasket Kit	(6)	403P	Cast Piston
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	E-458X	Standard Piston Ring Set	(1)	6689MA	Main Bearing Set	(1)	381-8006	Brass Expansion Plug Kit
(1)	224-41118	Oil Pump	(1)	8-2600A	Connecting Rod Bearing Set	(1)	1461M	Camshaft Bearing Set	<b>MKP-114F</b>		
(8)	H606P	Cast Piston	(1)	260-1451	Gasket Kit	(1)	KC-782	Cam & Lifter Kit	(1)	E-234X	Standard Piston Ring Set
(1)	381-8015	Brass Expansion Plug Kit	(1)	4125MA	Main Bearing Set	(1)	221-2542LS	Timing Gear Set	(1)	6-2020CP	Connecting Rod Bearing Set
<b>MKP-1116A</b>			(1)	1204M	Camshaft Bearing Set	(4)	H547P	Cast Piston	(1)	260-1005	Gasket Kit
(1)	E-251X	Standard Piston Ring Set	(1)	KC-668	Cam & Lifter Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	4124MA	Main Bearing Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	<b>MKP-1135A</b>			(1)	1557M	Camshaft Bearing Set
(1)	260-1446	Gasket Kit	<b>MKP-1121C</b>			(1)	E-384X	Standard Piston Ring Set	(1)	KC-633	Cam & Lifter Kit
		(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next page)

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-114F</b> (cont'd.)			<b>MKP-1151A</b>			<b>MKP-116A</b> (cont'd.)			<b>MKP-1184A</b>		
(1)	221-2540S	Timing Gear Set	(1)	E-377X	Standard Piston Ring Set	(1)	1557M	Camshaft Bearing Set	(1)	E-605X	Standard Piston Ring Set
(1)	224-4147	Oil Pump	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-677	Cam & Lifter Kit	(1)	6-4020A	Connecting Rod Bearing Set
(6)	403P	Cast Piston	(1)	260-1478	Gasket Kit	(1)	221-2540S	Timing Gear Set	(1)	260-1466	Gasket Kit
(1)	381-8006	Brass Expansion Plug Kit	(1)	4663MA	Main Bearing Set	(1)	224-4147	Oil Pump	(1)	7242MA	Main Bearing Set
<b>MKP-114G</b>			(1)	1235M	Camshaft Bearing Set	(6)	403P	Cast Piston	(1)	1492M	Camshaft Bearing Set
(1)	E-234X	Standard Piston Ring Set	(1)	KC-808	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	KC-715	Cam & Lifter Kit
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-117A</b>			(1)	KT3-372S	Timing Set - 3 Pc.
(1)	260-1005	Gasket Kit	(1)	224-4146A	Oil Pump	(1)	E-240X	Standard Piston Ring Set	(6)	H562CP	Cast Piston
(1)	4124MA	Main Bearing Set	(8)	550P	Cast Piston	(1)	8-3310CPA	Connecting Rod Bearing Set	<b>MKP-1184B</b>		
(1)	1557M	Camshaft Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	260-1010	Gasket Kit	(1)	E-605X	Standard Piston Ring Set
(1)	KC-677	Cam & Lifter Kit	<b>MKP-1153A</b>			(1)	5037M	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	221-2540S	Timing Gear Set	(1)	E-377X	Standard Piston Ring Set	(1)	1401M	Camshaft Bearing Set	(1)	260-1466	Gasket Kit
(1)	224-4147	Oil Pump	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-646	Cam & Lifter Kit	(1)	7242MA	Main Bearing Set
(6)	403P	Cast Piston	(1)	260-1268	Gasket Kit	(1)	KT3-369S	Timing Set - 3 Pc.	(1)	1492M	Camshaft Bearing Set
(1)	381-8006	Brass Expansion Plug Kit	(1)	4663MA	Main Bearing Set	(8)	1079P	Cast Piston	(1)	KC-715	Cam & Lifter Kit
<b>MKP-114H</b>			(1)	1235M	Camshaft Bearing Set	(1)	381-8001	Brass Expansion Plug Kit	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	E-234X	Standard Piston Ring Set	(1)	KC-766	Cam & Lifter Kit	<b>MKP-117C</b>			(1)	224-4152	Oil Pump
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	E-240X	Standard Piston Ring Set	(6)	H562CP	Cast Piston
(1)	260-1005	Gasket Kit	(1)	224-4146A	Oil Pump	(1)	8-3310CPA	Connecting Rod Bearing Set	(1)	381-8085	Brass Expansion Plug Kit
(1)	4124MA	Main Bearing Set	(8)	550P	Cast Piston	(1)	260-1010	Gasket Kit	<b>MKP-1184C</b>		
(1)	1203M	Camshaft Bearing Set	<b>MKP-1155A</b>			(1)	5037M	Main Bearing Set	(1)	E-605X	Standard Piston Ring Set
(1)	KC-633	Cam & Lifter Kit	(1)	E-384X	Standard Piston Ring Set	(1)	1401M	Camshaft Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	221-2525S	Timing Gear Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	KC-646	Cam & Lifter Kit	(1)	260-1466	Gasket Kit
(1)	224-4147	Oil Pump	(1)	260-1482	Gasket Kit	(1)	KT3-369S	Timing Set - 3 Pc.	(1)	7242MA	Main Bearing Set
(6)	403P	Cast Piston	(1)	6689MA	Main Bearing Set	(1)	224-51285	Oil Pump Repair Kit	(1)	1492M	Camshaft Bearing Set
(1)	381-8006	Brass Expansion Plug Kit	(1)	1461M	Camshaft Bearing Set	(8)	1079P	Cast Piston	(1)	KC-1539	Cam & Lifter Kit
<b>MKP-1148A</b>			(1)	KC-782	Cam & Lifter Kit	(1)	381-8001	Brass Expansion Plug Kit	(1)	KT3-368S	Timing Set - 3 Pc.
(1)	E-288X	Standard Piston Ring Set	(1)	221-2542LS	Timing Gear Set	<b>MKP-118A</b>			(6)	H562CP	Cast Piston
(1)	8-3045A	Connecting Rod Bearing Set	(1)	224-41239	Oil Pump	(1)	E-243X	Standard Piston Ring Set	<b>MKP-1186A</b>		
(1)	260-1477	Gasket Kit	(4)	H547P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-476X	Standard Piston Ring Set
(1)	4281M	Main Bearing Set	(1)	381-8074	Brass Expansion Plug Kit	(1)	260-1016	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set
(1)	1466M	Camshaft Bearing Set	<b>MKP-1156A</b>			(1)	4926MA	Main Bearing Set	(1)	260-1526	Gasket Kit
(1)	KC-758	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	4979M	Main Bearing Set
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	1443M	Camshaft Bearing Set
(1)	224-41203	Oil Pump	(1)	260-1269	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	1460M	Auxiliary Shaft Bearing Set
(8)	H801CP	Cast Piston	(1)	4663MA	Main Bearing Set	(8)	400AP	Cast Piston	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	381-8020	Brass Expansion Plug Kit	(1)	1235M	Camshaft Bearing Set	(1)	381-8008	Brass Expansion Plug Kit	(1)	222-14	Timing Belt
<b>MKP-1148D</b>			(1)	KC-274	Cam & Lifter Kit	<b>MKP-118D</b>			(1)	224-41160	Oil Pump
(1)	E-288X	Standard Piston Ring Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	E-243X	Standard Piston Ring Set	(4)	H491P	Cast Piston
(1)	8-3045A	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(1)	8-2555A	Connecting Rod Bearing Set	(1)	381-8029	Brass Expansion Plug Kit
(1)	260-1477	Gasket Kit	(8)	423NP	Cast Piston	(1)	260-1016	Gasket Kit	<b>MKP-119A</b>		
(1)	4281M	Main Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	4926MA	Main Bearing Set	(1)	E-245X	Standard Piston Ring Set
(1)	1466M	Camshaft Bearing Set	<b>MKP-1156C</b>			(1)	1235M	Camshaft Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	KC-850	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	KC-274	Cam & Lifter Kit	(1)	260-1000	Gasket Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	994M	Main Bearing Set
(1)	224-41203	Oil Pump	(1)	260-1269	Gasket Kit	(1)	224-4146	Oil Pump	(1)	1145M	Camshaft Bearing Set
(8)	H801CP	Cast Piston	(1)	4663MA	Main Bearing Set	(1)	400AP	Cast Piston	(1)	KC-274	Cam & Lifter Kit
(1)	381-8020	Brass Expansion Plug Kit	(1)	1235M	Camshaft Bearing Set	(8)	381-8008	Brass Expansion Plug Kit	(1)	KT3-489S	Timing Set - 3 Pc.
<b>MKP-115A</b>			(1)	KC-274	Cam & Lifter Kit	<b>MKP-118D</b>			(1)	224-4146	Oil Pump
(1)	E-234X	Standard Piston Ring Set	(1)	KT3-4SR46	Timing Set - 3 Pc.	(1)	E-510X	Standard Piston Ring Set	(8)	235NP	Cast Piston
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	381-8007	Brass Expansion Plug Kit
(1)	260-1019	Gasket Kit	(8)	423NP	Cast Piston	(1)	260-1503	Gasket Kit	<b>MKP-119C</b>		
(1)	4124MA	Main Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	7148M	Main Bearing Set	(1)	E-245X	Standard Piston Ring Set
(1)	1557M	Camshaft Bearing Set	<b>MKP-1156D</b>			(1)	67333AF	Thrust Washer Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	KC-677	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	CS-719	Camshaft	(1)	260-1000	Gasket Kit
(1)	221-2540S	Timing Gear Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KT-1028S	Timing Set - Complete	(1)	994M	Main Bearing Set
(1)	224-4147	Oil Pump	(1)	260-1269	Gasket Kit	(1)	224-41940	Oil Pump	(1)	1145M	Camshaft Bearing Set
(6)	403P	Cast Piston	(1)	4663MA	Main Bearing Set	(4)	12886CP	Cast Piston	(1)	KC-273	Cam & Lifter Kit
(1)	381-8006	Brass Expansion Plug Kit	(1)	1235M	Camshaft Bearing Set	(1)	381-8042	Brass Expansion Plug Kit	(1)	KT3-489S	Timing Set - 3 Pc.
<b>MKP-115E</b>			(1)	KC-274	Cam & Lifter Kit	<b>MKP-1182A</b>			(1)	224-4146	Oil Pump
(1)	E-234X	Standard Piston Ring Set	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	E-510X	Standard Piston Ring Set	(8)	235NP	Cast Piston
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	381-8007	Brass Expansion Plug Kit
(1)	260-1019	Gasket Kit	(8)	423NP	Cast Piston	(1)	260-1503	Gasket Kit	<b>MKP-119D</b>		
(1)	4124MA	Main Bearing Set	(1)	381-8059	Brass Expansion Plug Kit	(1)	7148M	Main Bearing Set	(1)	E-245X	Standard Piston Ring Set
(1)	1557M	Camshaft Bearing Set	<b>MKP-116A</b>			(1)	1492M	Camshaft Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	KC-633	Cam & Lifter Kit	(1)	E-234X	Standard Piston Ring Set	(1)	KC-1539	Cam & Lifter Kit	(1)	260-1000	Gasket Kit
(1)	221-2540S	Timing Gear Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	994M	Main Bearing Set
(1)	224-4147	Oil Pump	(1)	260-1037	Gasket Kit	(1)	224-4148	Oil Pump	(1)	1235M	Camshaft Bearing Set
(6)	403P	Cast Piston	(1)	4124MA	Main Bearing Set	(6)	H561P	Cast Piston	(1)	KC-274	Cam & Lifter Kit
(1)	381-8006	Brass Expansion Plug Kit	(cont'd. next column)			<b>MKP-1183D</b>			(cont'd. next page)		







# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-138A</b> (cont'd.)			<b>MKP-148D</b>			<b>MKP-153J</b> (cont'd.)			<b>MKP-162A</b> (cont'd.)		
(1)	381-8020	Brass Expansion Plug Kit	(1)	E-356X	Standard Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	224-4146	Oil Pump
<b>MKP-139C</b>			(1)	8-2555A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(8)	310NP	Cast Piston
(1)	E-297X	Standard Piston Ring Set	(1)	260-1024	Gasket Kit	(1)	KC-560	Cam & Lifter Kit	<b>MKP-162C</b>		
(1)	8-3045A	Connecting Rod Bearing Set	(1)	4663MA	Main Bearing Set	(1)	KT3-356S	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set
(1)	260-1008	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	224-41118	Oil Pump	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	4281M	Main Bearing Set	(1)	KC-711	Cam & Lifter Kit	(1)	273AP	Cast Piston	(1)	260-1000	Gasket Kit
(1)	1234M	Camshaft Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	994M	Main Bearing Set
(1)	KC-707	Cam & Lifter Kit	(1)	224-4146	Oil Pump	<b>MKP-153L</b>			(1)	1235M	Camshaft Bearing Set
(1)	KT3-498SA3	Timing Set - 3 Pc.	(8)	534NP	Cast Piston	(1)	8-2600A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit
(1)	224-41203	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1125	Gasket Kit	(1)	KT3-489S	Timing Set - 3 Pc.
(8)	332AP	Cast Piston	<b>MKP-153A</b>			(1)	4125MA	Main Bearing Set	(1)	224-4146	Oil Pump
(1)	381-8020	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	(1)	1204M	Camshaft Bearing Set	(8)	310NP	Cast Piston
<b>MKP-140E</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	KC-560	Cam & Lifter Kit	<b>MKP-162D</b>		
(1)	E-299X	Standard Piston Ring Set	(1)	260-1125	Gasket Kit	(1)	KT3-356S	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set
(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(1)	224-41118	Oil Pump	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1025	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(8)	272AP	Cast Piston	(1)	260-1000	Gasket Kit
(1)	4040M	Main Bearing Set	(1)	KC-560	Cam & Lifter Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	994M	Main Bearing Set
(1)	1220M	Camshaft Bearing Set	(1)	KT3-356S	Timing Set - 3 Pc.	<b>MKP-158A</b>			(1)	1235M	Camshaft Bearing Set
(1)	KC-690C	Cam & Lifter Kit	(1)	224-41118	Oil Pump	(1)	E-251X	Standard Piston Ring Set	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-350S	Timing Set - 3 Pc.	(8)	272AP	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1045	Gasket Kit	(1)	224-4146	Oil Pump
(8)	411NP	Cast Piston	<b>MKP-153D</b>			(1)	381-8007	Brass Expansion Plug Kit	(8)	310NP	Cast Piston
(1)	381-8021	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	<b>MKP-158C</b>			<b>MKP-162E</b>		
<b>MKP-142A</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	4663MA	Main Bearing Set	(1)	E-251X	Standard Piston Ring Set
(1)	E-318X	Standard Piston Ring Set	(1)	260-1125	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	260-1000	Gasket Kit
(1)	260-1001	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	994M	Main Bearing Set
(1)	4094M	Main Bearing Set	(1)	KC-560	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	1235M	Camshaft Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	KT3-358S	Timing Set - 3 Pc.	(8)	423NP	Cast Piston	(1)	KC-274	Cam & Lifter Kit
(1)	KC-327	Cam & Lifter Kit	(1)	224-41118	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-489S	Timing Set - 3 Pc.
(1)	KT3-501S	Timing Set - 3 Pc.	(8)	272AP	Cast Piston	<b>MKP-160A</b>			(1)	224-4149	Oil Pump
(1)	224-4174	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-233X	Standard Piston Ring Set	(8)	310NP	Cast Piston
(8)	406AP	Cast Piston	<b>MKP-153F</b>			(1)	8-3190A	Connecting Rod Bearing Set	<b>MKP-162F</b>		
(1)	381-8011	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	(1)	260-1045	Gasket Kit	(1)	E-251X	Standard Piston Ring Set
<b>MKP-146A</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	4663MA	Main Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	E-352X	Standard Piston Ring Set	(1)	260-1125	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	260-1000	Gasket Kit
(1)	4-3545A	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	994M	Main Bearing Set
(1)	260-1018	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	1235M	Camshaft Bearing Set
(1)	4979M	Main Bearing Set	(1)	KC-560	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	KC-274	Cam & Lifter Kit
(1)	1443M	Camshaft Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	423NP	Cast Piston	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	224-41118	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit	(1)	224-4149	Oil Pump
(1)	KC-666C	Cam, Lifter & Follower Kit	(8)	272AP	Cast Piston	<b>MKP-161A</b>			(8)	310NP	Cast Piston
(1)	222-14	Timing Belt	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-243X	Standard Piston Ring Set	<b>MKP-162J</b>		
(1)	224-41160	Oil Pump	<b>MKP-153G</b>			(1)	8-3190A	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set
(4)	H435P	Cast Piston	(1)	E-251X	Standard Piston Ring Set	(1)	260-1046	Gasket Kit	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	381-8029	Brass Expansion Plug Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set	(1)	260-1000	Gasket Kit
<b>MKP-147A</b>			(1)	260-1125	Gasket Kit	(1)	1404M	Camshaft Bearing Set	(1)	994M	Main Bearing Set
(1)	E-356X	Standard Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	KC-774	Cam & Lifter Kit	(1)	1235M	Camshaft Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KC-274	Cam & Lifter Kit
(1)	260-1023	Gasket Kit	(1)	KC-668	Cam & Lifter Kit	(1)	224-4154	Oil Pump	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	4663MA	Main Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	H661CP	Cast Piston	(1)	224-4146	Oil Pump
(1)	1235M	Camshaft Bearing Set	(1)	224-41118	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(8)	H951P 30	Cast Piston
(1)	KC-673	Cam & Lifter Kit	(8)	272AP	Cast Piston	<b>MKP-161A</b>			(1)	381-8007	Brass Expansion Plug Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-243X	Standard Piston Ring Set	<b>MKP-167E</b>		
(1)	224-4146	Oil Pump	<b>MKP-153H</b>			(1)	8-3190A	Connecting Rod Bearing Set	(1)	E-233X	Standard Piston Ring Set
(8)	454NP	Cast Piston	(1)	E-251X	Standard Piston Ring Set	(1)	260-1009	Gasket Kit	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set	(1)	260-1001	Gasket Kit
<b>MKP-148A</b>			(1)	260-1125	Gasket Kit	(1)	1404M	Camshaft Bearing Set	(1)	4094M	Main Bearing Set
(1)	E-356X	Standard Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	KC-774	Cam & Lifter Kit	(1)	1453M	Camshaft Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	KC-327	Cam & Lifter Kit
(1)	260-1024	Gasket Kit	(1)	KC-668	Cam & Lifter Kit	(1)	224-4154	Oil Pump	(1)	KT3-501S	Timing Set - 3 Pc.
(1)	4663MA	Main Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	402AP	Cast Piston	(1)	224-4174	Oil Pump
(1)	1235M	Camshaft Bearing Set	(1)	224-41118	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(8)	366NP	Cast Piston
(1)	KC-711	Cam & Lifter Kit	(8)	273AP	Cast Piston	<b>MKP-162A</b>			(1)	381-8011	Brass Expansion Plug Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	<b>MKP-167F</b>		
(1)	224-4146	Oil Pump	<b>MKP-153J</b>			(1)	8-2020CP	Connecting Rod Bearing Set	(1)	E-233X	Standard Piston Ring Set
(8)	454NP	Cast Piston	(1)	E-251X	Standard Piston Ring Set	(1)	260-1000	Gasket Kit	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	994M	Main Bearing Set	(1)	260-1001	Gasket Kit
			(1)	260-1125	Gasket Kit	(1)	1145M	Camshaft Bearing Set	(cont'd. next page)		
			(cont'd. next column)								

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-167F</b> (cont'd.)			<b>MKP-195B</b> (cont'd.)			<b>MKP-2032</b> (cont'd.)			<b>MKP-213A</b> (cont'd.)		
(1)	4094M	Main Bearing Set	(1)	381-8047	Brass Expansion Plug Kit	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1121	Gasket Kit
(1)	1453M	Camshaft Bearing Set	<b>MKP-199D</b>			(1)	260-1437	Gasket Kit	(1)	4923MA	Main Bearing Set
(1)	KC-327A	Cam & Lifter Kit	(1)	E-411X	Standard Piston Ring Set	(1)	5130M	Main Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KT3-501S	Timing Set - 3 Pc.	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	KC-644	Cam & Lifter Kit
(1)	224-4174	Oil Pump	(1)	260-1123	Gasket Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KT3-160S	Timing Set - 3 Pc.
(8)	366NP	Cast Piston	(1)	5090MA	Main Bearing Set	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	224-4166	Oil Pump
(1)	381-8011	Brass Expansion Plug Kit	(1)	1492M	Camshaft Bearing Set	(1)	224-41100	Oil Pump	(8)	L-2316F 20	Power Forged Piston
<b>MKP-183C</b>			(1)	KC-715	Cam & Lifter Kit	(1)	489P	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit
(1)	E-251X	Standard Piston Ring Set	(1)	KT3-368S	Timing Set - 3 Pc.	<b>MKP-2033</b>			<b>MKP-215A</b>		
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	224-4148	Oil Pump	(1)	E-446X	Standard Piston Ring Set	(1)	E-301X	Standard Piston Ring Set
(1)	260-1095	Gasket Kit	(6)	464P	Cast Piston	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set
(1)	4999MA	Main Bearing Set	(1)	381-8046	Brass Expansion Plug Kit	(1)	260-1556	Gasket Kit	(1)	260-1151	Gasket Kit
(1)	1484M	Camshaft Bearing Set	<b>MKP-199E</b>			(1)	7011MA	Main Bearing Set	(1)	5037M	Main Bearing Set
(1)	KC-665	Cam & Lifter Kit	(1)	E-411X	Standard Piston Ring Set	(1)	1843M	Camshaft Bearing Set	(1)	1401M	Camshaft Bearing Set
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	6-4020A	Connecting Rod Bearing Set	(1)	KC-787	Cam & Lifter Kit	(1)	KC-646	Cam & Lifter Kit
(1)	224-4166	Oil Pump	(1)	260-1123	Gasket Kit	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-369S	Timing Set - 3 Pc.
(8)	405P	Cast Piston	(1)	5090MA	Main Bearing Set	(1)	224-43636S	Oil Pump	(1)	224-51285	Oil Pump Repair Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	1492M	Camshaft Bearing Set	(1)	H497P	Cast Piston	(8)	362NP	Cast Piston
<b>MKP-186A</b>			(1)	KC-1539	Cam & Lifter Kit	(1)	381-8072	Brass Expansion Plug Kit	(1)	381-8001	Brass Expansion Plug Kit
(1)	E-232X	Standard Piston Ring Set	(1)	KT3-368S	Timing Set - 3 Pc.	<b>MKP-2050</b>			<b>MKP-216A</b>		
(1)	8-3190A	Connecting Rod Bearing Set	(1)	224-4148	Oil Pump	(1)	E-450X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set
(1)	260-1009	Gasket Kit	(6)	464P	Cast Piston	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	4400MA	Main Bearing Set	(1)	381-8046	Brass Expansion Plug Kit	(1)	260-1192	Gasket Kit	(1)	260-1134	Gasket Kit
(1)	1255M	Camshaft Bearing Set	<b>MKP-2000</b>			(1)	6676M	Main Bearing Set	(1)	4289M	Main Bearing Set
(1)	KC-636	Cam & Lifter Kit	(1)	E-605X	Standard Piston Ring Set	(1)	1244M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	224-4154	Oil Pump	(1)	6-4020A	Connecting Rod Bearing Set	(1)	KC-779	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit
(8)	460P	Cast Piston	(1)	260-1466	Gasket Kit	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.
(1)	381-8009	Brass Expansion Plug Kit	(1)	7242MA	Main Bearing Set	(1)	224-41198	Oil Pump	(6)	470NP	Cast Piston
<b>MKP-186C</b>			(1)	1492M	Camshaft Bearing Set	(1)	381-8086	Brass Expansion Plug Kit	(1)	381-8000	Brass Expansion Plug Kit
(1)	E-232X	Standard Piston Ring Set	(1)	KC-1539	Cam & Lifter Kit	<b>MKP-2053</b>			<b>MKP-217A</b>		
(1)	8-3190A	Connecting Rod Bearing Set	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	E-234X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1009	Gasket Kit	(1)	224-4148	Oil Pump	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	4400MA	Main Bearing Set	(6)	H562CP	Cast Piston	(1)	260-1424	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	1404M	Camshaft Bearing Set	(1)	381-8085	Brass Expansion Plug Kit	(1)	4289M	Main Bearing Set	(1)	4923MA	Main Bearing Set
(1)	KC-636	Cam & Lifter Kit	<b>MKP-2001</b>			(1)	1244M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	E-605X	Standard Piston Ring Set	(1)	KC-809	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	224-4154	Oil Pump	(1)	6-4020A	Connecting Rod Bearing Set	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
(8)	460P	Cast Piston	(1)	260-1466	Gasket Kit	(1)	224-41198	Oil Pump	(1)	224-4166	Oil Pump
(1)	381-8009	Brass Expansion Plug Kit	(1)	7242MA	Main Bearing Set	(1)	677CP	Cast Piston	(8)	285NP	Cast Piston
<b>MKP-186C</b>			(1)	1492M	Camshaft Bearing Set	(1)	381-8084	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	E-232X	Standard Piston Ring Set	(1)	KC-1539	Cam & Lifter Kit	<b>MKP-2058</b>			<b>MKP-217C</b>		
(1)	8-3190A	Connecting Rod Bearing Set	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1032	Gasket Kit	(1)	224-4152	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	7144MA	Main Bearing Set	(6)	H562CP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	1462M	Camshaft Bearing Set	(1)	381-8085	Brass Expansion Plug Kit	(1)	6678MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	KT3-359SA1	Timing Set - 3 Pc.	<b>MKP-2002</b>			(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	224-518	Oil Pump Repair Kit	(1)	E-605X	Standard Piston Ring Set	(1)	KC-809	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(6)	450NP	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	381-8035	Brass Expansion Plug Kit	(1)	260-1233	Gasket Kit	(1)	224-41198	Oil Pump	(1)	224-4166	Oil Pump
<b>MKP-191C</b>			(1)	7242MA	Main Bearing Set	(1)	677CP	Cast Piston	(8)	285NP	Cast Piston
(1)	E-369X	Standard Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	381-8084	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	<b>MKP-2058</b>			<b>MKP-217C</b>		
(1)	260-1032	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	7144MA	Main Bearing Set	(1)	224-4152	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	1462M	Camshaft Bearing Set	(6)	H562CP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(1)	6678MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	224-518	Oil Pump Repair Kit	<b>MKP-2002</b>			(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(6)	450NP	Cast Piston	(1)	E-605X	Standard Piston Ring Set	(1)	KC-809	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	381-8035	Brass Expansion Plug Kit	(1)	6-4020A	Connecting Rod Bearing Set	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
<b>MKP-191C</b>			(1)	260-1233	Gasket Kit	(1)	224-41198	Oil Pump	(1)	224-4166	Oil Pump
(1)	E-414X	Standard Piston Ring Set	(1)	7242MA	Main Bearing Set	(1)	677CP	Cast Piston	(8)	285NP	Cast Piston
(1)	6-3750P	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	381-8084	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	260-1101	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	<b>MKP-2058</b>			<b>MKP-217C</b>		
(1)	5085MA	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	1463M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	KC-712	Cam & Lifter Kit	(6)	H561CP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(1)	6678MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	224-4146	Oil Pump	<b>MKP-2002</b>			(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(6)	698P 30	Cast Piston	(1)	E-605X	Standard Piston Ring Set	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KC-645	Cam & Lifter Kit
(1)	381-8049	Brass Expansion Plug Kit	(1)	6-4020A	Connecting Rod Bearing Set	(1)	222-153	Timing Belt	(1)	KT3-160S	Timing Set - 3 Pc.
<b>MKP-192A</b>			(1)	260-1233	Gasket Kit	(1)	224-4168	Oil Pump	(1)	224-4166	Oil Pump
(1)	E-414X	Standard Piston Ring Set	(1)	7242MA	Main Bearing Set	(4)	527P	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit
(1)	6-3750P	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	381-8050	Brass Expansion Plug Kit	<b>MKP-218A</b>		
(1)	260-1101	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	<b>MKP-2058</b>			<b>MKP-218A</b>		
(1)	5085MA	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	1463M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	KC-712	Cam & Lifter Kit	(6)	H561CP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(1)	6678MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	224-4146	Oil Pump	<b>MKP-2002</b>			(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(6)	698P 30	Cast Piston	(1)	E-605X	Standard Piston Ring Set	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KC-645	Cam & Lifter Kit
(1)	381-8049	Brass Expansion Plug Kit	(1)	6-4020A	Connecting Rod Bearing Set	(1)	222-153	Timing Belt	(1)	KT3-160S	Timing Set - 3 Pc.
<b>MKP-192A</b>			(1)	260-1233	Gasket Kit	(1)	224-4168	Oil Pump	(8)	285NP	Cast Piston
(1)	E-414X	Standard Piston Ring Set	(1)	7242MA	Main Bearing Set	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	6-3750P	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	<b>MKP-2058</b>			<b>MKP-218A</b>		
(1)	260-1101	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	5085MA	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	KC-712	Cam & Lifter Kit	(6)	H561CP	Cast Piston	(1)	6678MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	224-4146	Oil Pump	<b>MKP-2002</b>			(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KC-645	Cam & Lifter Kit
(6)	698P 30	Cast Piston	(1)	E-605X	Standard Piston Ring Set	(1)	222-153	Timing Belt	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	381-8049	Brass Expansion Plug Kit	(1)	6-4020A	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump	(1)	224-4166	Oil Pump
<b>MKP-192A</b>			(1)	260-1233	Gasket Kit	(1)	381-8050	Brass Expansion Plug Kit	(8)	285NP	Cast Piston
(1)	E-414X	Standard Piston Ring Set	(1)	7242MA	Main Bearing Set	<b>MKP-2058</b>			(1)	381-8010	Brass Expansion Plug Kit
(1)	6-3750P	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	E-454X	Standard Piston Ring Set	<b>MKP-218C</b>		
(1)	260-1101	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-178X	Standard Piston Ring Set
(1)	5085MA	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	260-1616	Gasket Kit	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	6678MA	Main Bearing Set	(1)	260-1152	Gasket Kit
(1)	KC-712	Cam & Lifter Kit	(6)	H561CP	Cast Piston	(1)	1840M	Camshaft Bearing Set	(1)	5095MA	Main Bearing Set
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-218C</b> (cont'd.)			<b>MKP-228C</b>			<b>MKP-239A</b> (cont'd.)			<b>MKP-257A</b> (cont'd.)		
(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>E-432X</b>	Standard Piston Ring Set	(1)	<b>1557M</b>	Camshaft Bearing Set	(1)	<b>224-51162</b>	Oil Pump Repair Kit
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>KC-633</b>	Cam & Lifter Kit	(6)	<b>481P</b>	Cast Piston
(8)	<b>285NP</b>	Cast Piston	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>221-2528S</b>	Timing Gear Set	(1)	<b>381-8053</b>	Brass Expansion Plug Kit
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>224-4147</b>	Oil Pump			
<b>MKP-218D</b>			(1)	<b>1492M</b>	Camshaft Bearing Set	(6)	<b>403P</b>	Cast Piston			
(1)	<b>E-178X</b>	Standard Piston Ring Set	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>381-8006</b>	Brass Expansion Plug Kit			
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	<b>MKP-239C</b>					
(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>E-234X</b>	Standard Piston Ring Set			
(1)	<b>5095MA</b>	Main Bearing Set	(6)	<b>516P</b>	Cast Piston	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set			
(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>381-8046</b>	Brass Expansion Plug Kit	(1)	<b>260-1129</b>	Gasket Kit			
(1)	<b>KC-645</b>	Cam & Lifter Kit	<b>MKP-228H</b>			(1)	<b>4124MA</b>	Main Bearing Set			
(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>E-432X</b>	Standard Piston Ring Set	(1)	<b>1557M</b>	Camshaft Bearing Set			
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>KC-677</b>	Cam & Lifter Kit			
(8)	<b>285NP</b>	Cast Piston	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>221-2540S</b>	Timing Gear Set			
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>224-4147</b>	Oil Pump			
<b>MKP-218H</b>			(1)	<b>1492M</b>	Camshaft Bearing Set	(6)	<b>403P</b>	Cast Piston			
(1)	<b>E-178X</b>	Standard Piston Ring Set	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>381-8006</b>	Brass Expansion Plug Kit			
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	<b>MKP-239D</b>					
(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>E-234X</b>	Standard Piston Ring Set			
(1)	<b>5095MA</b>	Main Bearing Set	(6)	<b>516P</b>	Cast Piston	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set			
(1)	<b>1484M</b>	Camshaft Bearing Set	<b>MKP-228L</b>			(1)	<b>260-1129</b>	Gasket Kit			
(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>E-432X</b>	Standard Piston Ring Set	(1)	<b>4124MA</b>	Main Bearing Set			
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>1557M</b>	Camshaft Bearing Set			
(8)	<b>526P</b>	Cast Piston	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>KC-633</b>	Cam & Lifter Kit			
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>221-2540S</b>	Timing Gear Set			
<b>MKP-218J</b>			(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>224-4147</b>	Oil Pump			
(1)	<b>E-178X</b>	Standard Piston Ring Set	(1)	<b>KC-1539</b>	Cam & Lifter Kit	(6)	<b>403P</b>	Cast Piston			
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>381-8006</b>	Brass Expansion Plug Kit			
(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>224-4148</b>	Oil Pump	<b>MKP-243A</b>					
(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>381-8046</b>	Brass Expansion Plug Kit	(1)	<b>E-178X</b>	Standard Piston Ring Set			
(1)	<b>1484M</b>	Camshaft Bearing Set	<b>MKP-228M</b>			(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set			
(1)	<b>KC-1556</b>	Cam & Lifter Kit	(1)	<b>E-432X</b>	Standard Piston Ring Set	(1)	<b>260-1121</b>	Gasket Kit			
(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>5024MA</b>	Main Bearing Set			
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>1451M</b>	Camshaft Bearing Set			
(8)	<b>526P</b>	Cast Piston	(1)	<b>5090MA</b>	Main Bearing Set	(1)	<b>KC-645</b>	Cam & Lifter Kit			
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.			
<b>MKP-218K</b>			(1)	<b>KC-1539</b>	Cam & Lifter Kit	(1)	<b>224-4166</b>	Oil Pump			
(1)	<b>E-178X</b>	Standard Piston Ring Set	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.	(8)	<b>285NP</b>	Cast Piston			
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>381-8010</b>	Brass Expansion Plug Kit			
(1)	<b>260-1152</b>	Gasket Kit	(6)	<b>516P</b>	Cast Piston	<b>MKP-244C</b>					
(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>381-8046</b>	Brass Expansion Plug Kit	(1)	<b>E-178X</b>	Standard Piston Ring Set			
(1)	<b>1484M</b>	Camshaft Bearing Set	<b>MKP-232A</b>			(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set			
(1)	<b>KC-1556</b>	Cam & Lifter Kit	(1)	<b>E-408X</b>	Standard Piston Ring Set	(1)	<b>260-1154</b>	Gasket Kit			
(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>6-3755A</b>	Connecting Rod Bearing Set	(1)	<b>5024MA</b>	Main Bearing Set			
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>260-1032</b>	Gasket Kit	(1)	<b>1484M</b>	Camshaft Bearing Set			
(8)	<b>526P</b>	Cast Piston	(1)	<b>7144MA</b>	Main Bearing Set	(1)	<b>KC-645</b>	Cam & Lifter Kit			
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>1462M</b>	Camshaft Bearing Set	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.			
<b>MKP-218L</b>			(1)	<b>KC-702</b>	Cam & Lifter Kit	(1)	<b>224-4166</b>	Oil Pump			
(1)	<b>E-178X</b>	Standard Piston Ring Set	(1)	<b>KT3-359SA1</b>	Timing Set - 3 Pc.	(8)	<b>285NP</b>	Cast Piston			
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>224-518</b>	Oil Pump Repair Kit	(1)	<b>381-8010</b>	Brass Expansion Plug Kit			
(1)	<b>260-1152</b>	Gasket Kit	(6)	<b>H471CP 30</b>	Cast Piston	<b>MKP-252A</b>					
(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>381-8035</b>	Brass Expansion Plug Kit	(1)	<b>E-352X</b>	Standard Piston Ring Set			
(1)	<b>1484M</b>	Camshaft Bearing Set	<b>MKP-233A</b>			(1)	<b>4-3545A</b>	Connecting Rod Bearing Set			
(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>E-408X</b>	Standard Piston Ring Set	(1)	<b>260-1161</b>	Gasket Kit			
(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>6-3755A</b>	Connecting Rod Bearing Set	(1)	<b>4979M</b>	Main Bearing Set			
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>260-1149</b>	Gasket Kit	(1)	<b>1443M</b>	Camshaft Bearing Set			
(8)	<b>526P</b>	Cast Piston	(1)	<b>7144MA</b>	Main Bearing Set	(1)	<b>1460M</b>	Auxiliary Shaft Bearing Set			
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>1462M</b>	Camshaft Bearing Set	(1)	<b>KC-666C</b>	Cam, Lifter & Follower Kit			
<b>MKP-227K</b>			(1)	<b>KC-702</b>	Cam & Lifter Kit	(1)	<b>222-14</b>	Timing Belt			
(1)	<b>E-432X</b>	Standard Piston Ring Set	(1)	<b>KT3-359SA1</b>	Timing Set - 3 Pc.	(1)	<b>224-41160</b>	Oil Pump			
(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>224-518</b>	Oil Pump Repair Kit	(4)	<b>H435P</b>	Cast Piston			
(1)	<b>260-1143</b>	Gasket Kit	(6)	<b>H471CP 30</b>	Cast Piston	(1)	<b>381-8029</b>	Brass Expansion Plug Kit			
(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>381-8035</b>	Brass Expansion Plug Kit	<b>MKP-257A</b>					
(1)	<b>1492M</b>	Camshaft Bearing Set	<b>MKP-239A</b>			(1)	<b>E-415X</b>	Standard Piston Ring Set			
(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>E-234X</b>	Standard Piston Ring Set	(1)	<b>6-3830CPA</b>	Connecting Rod Bearing Set			
(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set	(1)	<b>260-1166</b>	Gasket Kit			
(1)	<b>224-4148</b>	Oil Pump	(1)	<b>260-1129</b>	Gasket Kit	(1)	<b>7295MA</b>	Main Bearing Set			
(6)	<b>516P</b>	Cast Piston	(1)	<b>4124MA</b>	Main Bearing Set	(1)	<b>1493M</b>	Camshaft Bearing Set			
(1)	<b>381-8046</b>	Brass Expansion Plug Kit	(1)	<b>260-1129</b>	Gasket Kit	(1)	<b>KC-733</b>	Cam & Lifter Kit			
			(1)	<b>4124MA</b>	Main Bearing Set	(1)	<b>KT3-365SA</b>	Timing Set - 3 Pc.			
			(cont'd. next column)								

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-265C</b>			<b>MKP-358A</b> (cont'd.)			<b>MKP-386A</b>		
(1)	E-229X	Standard Piston Ring Set	(1)	6676M	Main Bearing Set	(1)	E-415X	Standard Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1174	Gasket Kit	(1)	KC-779	Cam & Lifter Kit	(1)	260-1211	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	7295MA	Main Bearing Set
(1)	1781M	Camshaft Bearing Set	(1)	224-41198	Oil Pump	(1)	1493M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(4)	525P	Cast Piston	(1)	KC-748	Cam & Lifter Kit
(1)	221-2764S	Timing Gear Set	<b>MKP-359A</b>			(1)	KT3-365SA	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	E-450X	Standard Piston Ring Set	(1)	224-51162	Oil Pump Repair Kit
(6)	H519P	Cast Piston	(1)	4-3310CPA	Connecting Rod Bearing Set	(6)	490P .50MM	Cast Piston
(1)	381-8014	Brass Expansion Plug Kit	(1)	260-1192	Gasket Kit	(1)	381-8053	Brass Expansion Plug Kit
<b>MKP-268A</b>			<b>MKP-360A</b>			<b>MKP-388A</b>		
(1)	E-296X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1177	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	260-1213A	Gasket Kit
(1)	4907M	Main Bearing Set	(1)	4289M	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	1414M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit	(1)	KC-761	Cam & Lifter Kit
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.	(1)	KT3-163SA	Timing Set - 3 Pc.
(1)	224-41144	Oil Pump	(6)	470NP	Cast Piston	(1)	224-41118	Oil Pump
(8)	H418P	Cast Piston	(1)	381-8000	Brass Expansion Plug Kit	(8)	H273CP	Cast Piston
(1)	381-8018	Brass Expansion Plug Kit	<b>MKP-360C</b>			(1)	381-8015	Brass Expansion Plug Kit
<b>MKP-274A</b>			<b>MKP-369C</b>			<b>MKP-391A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1189	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	260-1214	Gasket Kit
(1)	5107M	Main Bearing Set	(1)	4289M	Main Bearing Set	(1)	4979M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-504S	Timing Set - 3 Pc.	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	224-41143	Oil Pump	(1)	224-41198	Oil Pump	(1)	222-14	Timing Belt
(8)	416P	Cast Piston	(6)	470NP	Cast Piston	(1)	224-41160	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8000	Brass Expansion Plug Kit	(4)	H491P	Cast Piston
<b>MKP-274C</b>			<b>MKP-382A</b>			<b>MKP-398A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-481X	Standard Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1189	Gasket Kit	(1)	260-1093	Gasket Kit	(1)	260-1220	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	6101MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1838M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	1838M	Camshaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	222-71	Timing Belt	(1)	KC-814	Cam & Lifter Kit
(1)	224-41143	Oil Pump	(1)	224-4168	Oil Pump	(1)	KT3-60S	Timing Set - 3 Pc.
(8)	463P	Cast Piston	(4)	527P	Cast Piston	(1)	224-43431	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8050	Brass Expansion Plug Kit	(6)	520P	Cast Piston
<b>MKP-330C</b>			<b>MKP-383A</b>			<b>MKP-398C</b>		
(1)	E-416X	Standard Piston Ring Set	(1)	E-465X	Standard Piston Ring Set	(1)	E-481X	Standard Piston Ring Set
(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	4-2380CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1091	Gasket Kit	(1)	260-1208	Gasket Kit	(1)	260-1220	Gasket Kit
(1)	7148M	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	7245MA	Main Bearing Set
(1)	67332AF	Thrust Washer Set	(1)	1494M	Camshaft Bearing Set	(1)	1838M	Camshaft Bearing Set
(1)	CS-719	Camshaft	(1)	KC-788	Cam & Lifter Kit	(1)	1838M	Camshaft Bearing Set
(1)	KT-1019S	Timing Set - Complete	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KC-814	Cam & Lifter Kit
(1)	224-41902	Oil Pump	(1)	224-41100	Oil Pump	(1)	KT3-60S	Timing Set - 3 Pc.
(4)	12326P	Cast Piston	(4)	489P	Cast Piston	(1)	224-43431	Oil Pump
(1)	381-8042	Brass Expansion Plug Kit	<b>MKP-383A</b>			(6)	520P	Cast Piston
<b>MKP-354A</b>			(1)	E-465X	Standard Piston Ring Set	(1)	381-8064	Brass Expansion Plug Kit
(1)	E-416X	Standard Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set	<b>MKP-6002A</b>		
(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	260-1208	Gasket Kit	(1)	E-458K	Premium Piston Ring Set
(1)	260-1188	Gasket Kit	(1)	5130M	Main Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	7148M	Main Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	260-1169	Gasket Kit
(1)	67332AF	Thrust Washer Set	(1)	KC-788	Cam & Lifter Kit	(1)	4125MA	Main Bearing Set
(1)	CS-719	Camshaft	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	1204M	Camshaft Bearing Set
(1)	KT-1020S	Timing Set - Complete	(1)	224-41100	Oil Pump	(1)	KC-668	Cam & Lifter Kit
(1)	224-41902	Oil Pump	(4)	489P	Cast Piston	(1)	KT3-358SA	Timing Set - 3 Pc.
(4)	12326P	Cast Piston	<b>MKP-383A</b>			(1)	224-41118	Oil Pump
(1)	381-8042	Brass Expansion Plug Kit	(1)	E-465X	Standard Piston Ring Set	(8)	517CP	Cast Piston
<b>MKP-358A</b>			(1)	4-1035CP	Connecting Rod Bearing Set	(1)	381-8015	Brass Expansion Plug Kit
(1)	E-450X	Standard Piston Ring Set	(1)	260-1208	Gasket Kit	<b>MKP-6003A</b>		
(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	5130M	Main Bearing Set	(1)	E-296K	Premium Piston Ring Set
(1)	260-1191	Gasket Kit	(1)	1494M	Camshaft Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(cont'd. next column)			(1)	KC-788	Cam & Lifter Kit	(cont'd. next column)		
			(1)	KT3-505S	Timing Set - 3 Pc.			
			(1)	224-41100	Oil Pump			
			(4)	489P	Cast Piston			
<b>MKP-6003A</b> (cont'd.)			<b>MKP-6004A</b>			<b>MKP-6006A</b>		
(1)	260-1223	Gasket Kit	(1)	E-447K	Premium Piston Ring Set	(1)	E-477K	Premium Piston Ring Set
(1)	4907M	Main Bearing Set	(1)	8-3810CP	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	1414M	Camshaft Bearing Set	(1)	260-1672	Gasket Kit	(1)	260-1227	Gasket Kit
(1)	KC-648	Cam & Lifter Kit	(1)	260-4029	Valley Pan Gasket Set	(1)	7047MA	Main Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	5110M	Main Bearing Set	(1)	1485M	Camshaft Bearing Set
(1)	224-41144	Oil Pump	(1)	1467M	Camshaft Bearing Set	(1)	KC-811	Cam & Lifter Kit
(8)	H418P	Cast Piston	(1)	KC-771	Cam & Lifter Kit	(1)	KT3-370S	Timing Set - 3 Pc.
(1)	381-8018	Brass Expansion Plug Kit	(1)	221-3342S	Timing Gear Set	(1)	224-4151	Oil Pump
<b>MKP-6004A</b>			(1)	224-41999	Oil Pump	(4)	540P 1.00MM	Cast Piston
(1)	E-447K	Premium Piston Ring Set	(8)	H729CP	Cast Piston	(1)	381-8056	Brass Expansion Plug Kit
(1)	8-3810CP	Connecting Rod Bearing Set	<b>MKP-6007A</b>			(1)	E-384K	Premium Piston Ring Set
(1)	260-1672	Gasket Kit	(1)	E-384K	Premium Piston Ring Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-4029	Valley Pan Gasket Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	260-1228	Gasket Kit
(1)	5110M	Main Bearing Set	(1)	260-1227	Gasket Kit	(1)	6689MA	Main Bearing Set
(1)	1467M	Camshaft Bearing Set	(1)	7047MA	Main Bearing Set	(1)	1461M	Camshaft Bearing Set
(1)	KC-771	Cam & Lifter Kit	(1)	1485M	Camshaft Bearing Set	(1)	KC-782	Cam & Lifter Kit
(1)	221-3342S	Timing Gear Set	(1)	KC-811	Cam & Lifter Kit	(1)	221-2542LS	Timing Gear Set
(1)	224-41999	Oil Pump	(1)	KT3-370S	Timing Set - 3 Pc.	(1)	224-41239	Oil Pump
(8)	H729CP	Cast Piston	(1)	224-4151	Oil Pump	(4)	H547P	Cast Piston
(1)	381-8056	Brass Expansion Plug Kit	(4)	540P 1.00MM	Cast Piston	(1)	381-8074	Brass Expansion Plug Kit
<b>MKP-6006A</b>			<b>MKP-6008A</b>			<b>MKP-6009A</b>		
(1)	E-477K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1227	Gasket Kit	(1)	260-1228	Gasket Kit	(1)	260-1229	Gasket Kit
(1)	7047MA	Main Bearing Set	(1)	6689MA	Main Bearing Set	(1)	6690MA	Main Bearing Set
(1)	1485M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set
(1)	KC-811	Cam & Lifter Kit	(1)	KC-782	Cam & Lifter Kit	(1)	KC-781	Cam & Lifter Kit
(1)	KT3-370S	Timing Set - 3 Pc.	(1)	221-2542LS	Timing Gear Set	(1)	221-2544S	Timing Gear Set
(1)	224-4151	Oil Pump	(1)	224-41239	Oil Pump	(1)	221-2525S	Timing Gear Set
(4)	540P 1.00MM	Cast Piston	(4)	H547P	Cast Piston	(4)	H547P	Cast Piston
(1)	381-8054	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit
<b>MKP-6007A</b>			<b>MKP-6009A</b>			<b>MKP-6010C</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-180K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	260-1228	Gasket Kit	(1)	260-1229	Gasket Kit	(1)	260-1035	Gasket Kit
(1)	6689MA	Main Bearing Set	(1)	6690MA	Main Bearing Set	(1)	4261M	Main Bearing Set
(1)	1461M	Camshaft Bearing Set	(1)	1756M	Camshaft Bearing Set	(1)	1445M	Camshaft Bearing Set
(1)	KC-782	Cam & Lifter Kit	(1)	KC-781	Cam & Lifter Kit	(cont'd. next page)		
(1)	221-2542LS	Timing Gear Set	(1)	221-2544S	Timing Gear Set			
(1)	224-41239	Oil Pump	(1)	221-2525S	Timing Gear Set			
(4)	H547P	Cast Piston	(4)	H547P	Cast Piston			
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8074	Brass Expansion Plug Kit			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-601C</b> (cont'd.)			<b>MKP-601P</b> (cont'd.)			<b>MKP-6020A</b> (cont'd.)			<b>MKP-6026E</b> (cont'd.)		
(1)	KC-643	Cam & Lifter Kit	(1)	381-8017	Brass Expansion Plug Kit	(1)	6-1020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6010A</b>			(1)	260-1240	Gasket Kit	(1)	KC-711	Cam & Lifter Kit
(1)	224-41177	Oil Pump	(1)	E-450K	Premium Piston Ring Set	(1)	5085MA	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.
(8)	H304P	Cast Piston	(1)	4-2020CP	Connecting Rod Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	224-4146	Oil Pump
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1231	Gasket Kit	(1)	KC-756	Cam & Lifter Kit	(8)	536NP	Cast Piston
<b>MKP-601D</b>			(1)	4123MA	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8059	Brass Expansion Plug Kit
(1)	E-180K	Premium Piston Ring Set	(1)	1202M	Camshaft Bearing Set	<b>MKP-6021A</b>			<b>MKP-6027A</b>		
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-708A	Cam & Lifter Kit	(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	260-1035	Gasket Kit	(1)	221-2525S	Timing Gear Set	(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	4261M	Main Bearing Set	(1)	224-4147	Oil Pump	(1)	260-1241	Gasket Kit	(1)	260-1247	Gasket Kit
(1)	1445M	Camshaft Bearing Set	(4)	1108P	Cast Piston	(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6011B</b>			(1)	KC-783	Cam & Lifter Kit	(1)	KC-793	Cam & Lifter Kit
(1)	224-41173	Oil Pump	(1)	E-432K	Premium Piston Ring Set	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.
(8)	H304P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1232	Gasket Kit	(1)	640P	Cast Piston	(8)	536NP	Cast Piston
<b>MKP-601E</b>			(1)	7242MA	Main Bearing Set	<b>MKP-6024C</b>			<b>MKP-6027C</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1247	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4148	Oil Pump	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	516P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-642	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	KC-766	Cam & Lifter Kit	(1)	KC-808	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6011C</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	224-41177	Oil Pump	(1)	E-432K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump
(8)	H304P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	534NP	Cast Piston	(8)	536NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1232	Gasket Kit	<b>MKP-6024D</b>			(1)	381-8059	Brass Expansion Plug Kit
<b>MKP-601F</b>			(1)	7242MA	Main Bearing Set	(1)	E-356K	Premium Piston Ring Set	<b>MKP-603A</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-196K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(1)	260-1243	Gasket Kit	(1)	6-3695RA	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	4663MA	Main Bearing Set	(1)	260-1004	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4152	Oil Pump	(1)	1235M	Camshaft Bearing Set	(1)	5070M	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	516P	Cast Piston	(1)	KC-711	Cam & Lifter Kit	(1)	1454M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KC-380	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6012E</b>			(1)	224-4146	Oil Pump	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	(1)	E-478K	Premium Piston Ring Set	(1)	534NP	Cast Piston	(1)	224-4165C	Oil Pump
(8)	H304P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	<b>MKP-6024E</b>			(6)	244NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1232	Gasket Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MKP-601G</b>			(1)	7242MA	Main Bearing Set	<b>MKP-6024F</b>			<b>MKP-603C</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1004	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4148	Oil Pump	(1)	4663MA	Main Bearing Set	(1)	5070M	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	531P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-380	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6019A</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	(1)	E-459K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4165C	Oil Pump
(8)	H304P	Cast Piston	(1)	6-1020A	Connecting Rod Bearing Set	<b>MKP-6024G</b>			(6)	244NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1233	Gasket Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MKP-601H</b>			(1)	7242MA	Main Bearing Set	<b>MKP-6024H</b>			<b>MKP-603D</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1004	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4148	Oil Pump	(1)	4663MA	Main Bearing Set	(1)	5070M	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	531P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-380	Cam & Lifter Kit
(1)	KT3-494SA3	Timing Set - 3 Pc.	<b>MKP-6020A</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	(1)	E-459K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4165C	Oil Pump
(8)	H304P	Cast Piston	(1)	6-1020A	Connecting Rod Bearing Set	<b>MKP-6024I</b>			(6)	244NP	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1239	Gasket Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8012	Brass Expansion Plug Kit
<b>MKP-601I</b>			(1)	5085MA	Main Bearing Set	<b>MKP-6024J</b>			<b>MKP-603E</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1463M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-756	Cam & Lifter Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1267	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	640P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8049	Brass Expansion Plug Kit	(1)	KC-766	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
(1)	KT3-494SA1	Timing Set - 3 Pc.	<b>MKP-6019B</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set
(1)	224-41173	Oil Pump	(1)	E-459K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4147	Oil Pump
(8)	H304P	Cast Piston	(1)	6-2375CP	Connecting Rod Bearing Set	<b>MKP-6024K</b>			(6)	H909P	Cast Piston
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1004	Gasket Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit
<b>MKP-601J</b>			(1)	4092M	Main Bearing Set	<b>MKP-6024L</b>			<b>MKP-603F</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	1454M	Camshaft Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-380	Cam & Lifter Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit
(1)	4261M	Main Bearing Set	(1)	224-4165C	Oil Pump	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1445M	Camshaft Bearing Set	(6)	244NP	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-643	Cam & Lifter Kit	(1)	381-8012	Brass Expansion Plug Kit	(1)	KC-793	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-494SA3	Timing Set - 3 Pc.	<b>MKP-6020B</b>			(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41173	Oil Pump	(1)	E-459K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump
(8)	H395P	Cast Piston	<b>MKP-6020C</b>			<b>MKP-6024M</b>			<b>MKP-603G</b>		
(1)	381-8017	Brass Expansion Plug Kit	(1)	260-1246	Gasket Kit	(1)	E-356K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set
<b>MKP-601K</b>			(1)	4663MA	Main Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set
(1)	E-180K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KC-793	Cam & Lifter Kit	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	260-1035	Gasket Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	4261M	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	KC-793	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	1445M	Camshaft Bearing Set	(1)	381-8012	Brass Expansion Plug Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	KC-643	Cam & Lifter Kit	<b>MKP-6020D</b>			<b>MKP-6024N</b>			(1)	224-4146	Oil Pump
(1)	KT3-494SA3	Timing Set - 3 Pc.	(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	<b>MKP-603H</b>		
(1)	224-41173	Oil Pump	(1)	6-2375CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	<b>MKP-603I</b>		
(8)	H395P	Cast Piston	(1)	260-1004	Gasket Kit	(1)	260-1246	Gasket Kit	<b>MKP-603J</b>		
(1)	381-8017	Brass Expansion Plug Kit	(1)	4092M	Main Bearing Set	(1)	4663MA	Main Bearing Set	<b>MKP-603K</b>		
<b>MKP-601L</b>			(1)	1454M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	<b>MKP-603L</b>		
(1)	E-180K	Premium Piston Ring Set	(1)	KC-380	Cam & Lifter Kit	(1)	KC-793	Cam & Lifter Kit	<b>MKP-603M</b>		
(1)	8-3230CP	Connecting Rod Bearing Set	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.	<b>MKP-603N</b>		
(1)	260-1035	Gasket Kit	(1)	224-4165C	Oil Pump	(1)	224-4146	Oil Pump	<b>MKP-603O</b>		
(1)	4261M	Main Bearing Set	(6)	244NP	Cast Piston	(1)	536NP	Cast Piston	<b>MKP-603P</b>		
(1)	1445M	Camshaft Bearing Set	(1)	381-8012	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	<b>MKP-603Q</b>		
(1)	KC-643	Cam & Lifter Kit	<b>MKP-6020E</b>			<b>MKP-6024O</b>			<b>MKP-603R</b>		
(1)	KT3-494SA3	Timing Set - 3 Pc.	(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	<b>MKP-603S</b>		
(1)	224-41173	Oil Pump	(1)	6-2375CP	Connecting Rod Bearing Set	(1)					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description			
<b>MKP-6037A</b> (cont'd.) (8) 423NP Cast Piston (1) 381-8059 Brass Expansion Plug Kit			<b>MKP-606D</b> (1) E-217K Premium Piston Ring Set (6) 2555A Connecting Rod Bearing Pair (1) 260-1005 Gasket Kit (1) 4124MA Main Bearing Set (1) 1203M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-608D</b> (cont'd.) (1) 5071M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-658 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) 275NP Cast Piston (1) 381-8013 Brass Expansion Plug Kit			<b>MKP-6093A</b> (cont'd.) (1) 224-4168 Oil Pump (4) 527P Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-6037C</b> (1) E-251K Premium Piston Ring Set (1) 8-2555A Connecting Rod Bearing Set (1) 260-1268 Gasket Kit (1) 4663MA Main Bearing Set (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-163S Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 423NP Cast Piston (1) 381-8059 Brass Expansion Plug Kit			<b>MKP-606E</b> (1) E-217K Premium Piston Ring Set (6) 2555A Connecting Rod Bearing Pair (1) 260-1005 Gasket Kit (1) 4124MA Main Bearing Set (1) 1557M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-6084A</b> (1) E-468K Premium Piston Ring Set (1) 8-3860P Connecting Rod Bearing Set (1) 260-1315 Gasket Kit (1) 7370M Main Bearing Set (1) 1496M Camshaft Bearing Set (1) KC-770 Cam & Lifter Kit (1) KT3-181S Timing Set - 3 Pc. (1) 224-43424 Oil Pump (8) H587P Cast Piston (1) 381-8057 Brass Expansion Plug Kit			<b>MKP-6093C</b> (1) E-454K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1425 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-153 Timing Belt (1) 224-4168 Oil Pump (4) 571CP Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-604A</b> (1) E-196K Premium Piston Ring Set (1) 6-3695RA Connecting Rod Bearing Set (1) 260-1038 Gasket Kit (1) 5070M Main Bearing Set (1) 1473M Camshaft Bearing Set (1) KC-709 Cam & Lifter Kit (1) KT3-495SA Timing Set - 3 Pc. (1) 224-4165C Oil Pump (6) 244NP Cast Piston (1) 381-8012 Brass Expansion Plug Kit			<b>MKP-607A</b> (1) E-217K Premium Piston Ring Set (1) 6-2555A Connecting Rod Bearing Set (1) 260-1044 Gasket Kit (1) 4124MA Main Bearing Set (1) 1557M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-6086C</b> (1) E-233K Premium Piston Ring Set (1) 8-3190A Connecting Rod Bearing Set (1) 260-1418 Gasket Kit (1) 4400MA Main Bearing Set (1) 1404M Camshaft Bearing Set (1) KC-774 Cam & Lifter Kit (1) KT3-501SA Timing Set - 3 Pc. (1) 224-4154G Oil Pump (8) H518CP Cast Piston (1) 381-8009 Brass Expansion Plug Kit			<b>MKP-6094A</b> (1) E-453K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1426 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-153 Timing Belt (1) 224-4168 Oil Pump (4) H579P Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-605D</b> (1) E-197K Premium Piston Ring Set (1) 6-2380CP Connecting Rod Bearing Set (1) 260-1002 Gasket Kit (1) 4222M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-261 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) 302NP Cast Piston (1) 381-8013 Brass Expansion Plug Kit			<b>MKP-607B</b> (1) E-217K Premium Piston Ring Set (6) 2555A Connecting Rod Bearing Pair (1) 260-1044 Gasket Kit (1) 4124MA Main Bearing Set (1) 1557M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-6087A</b> (1) E-229K Premium Piston Ring Set (1) 6-3150CPA Connecting Rod Bearing Set (1) 260-1420 Gasket Kit (1) 4916M Main Bearing Set (1) 1781M Camshaft Bearing Set (1) KC-1230 Cam & Lifter Kit (1) 221-2764S Timing Gear Set (1) 224-41124 Oil Pump (6) H519P Cast Piston (1) 381-8071 Brass Expansion Plug Kit			<b>MKP-6094C</b> (1) E-453K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1426 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-153 Timing Belt (1) 224-4168 Oil Pump (4) 533P Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-605G</b> (1) E-197K Premium Piston Ring Set (1) 6-2380CP Connecting Rod Bearing Set (1) 260-1002 Gasket Kit (1) 4222M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-448 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) 302NP Cast Piston (1) 381-8013 Brass Expansion Plug Kit			<b>MKP-608A</b> (1) E-219K Premium Piston Ring Set (1) 6-2380CP Connecting Rod Bearing Set (1) 260-1002 Gasket Kit (1) 4290M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-448 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-6091A</b> (1) E-509K Premium Piston Ring Set (1) 8-3810CP Connecting Rod Bearing Set (1) 260-1673 Gasket Kit (1) 260-4029 Valley Pan Gasket Set (1) 5110M Main Bearing Set (1) 1467M Camshaft Bearing Set (1) KC-771 Cam & Lifter Kit (1) 221-3342S Timing Gear Set (1) 224-41999 Oil Pump (8) H651CP Cast Piston (1) 381-8056 Brass Expansion Plug Kit			<b>MKP-6094D</b> (1) E-453K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1426 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-71 Timing Belt (1) 224-4168 Oil Pump (4) 533P Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-606A</b> (1) E-217K Premium Piston Ring Set (1) 6-2555A Connecting Rod Bearing Set (1) 260-1005 Gasket Kit (1) 4124MA Main Bearing Set (1) 1203M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-608B</b> (1) E-219K Premium Piston Ring Set (1) 6-2380CP Connecting Rod Bearing Set (1) 260-1002 Gasket Kit (1) 4290M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-658 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) 275NP Cast Piston (1) 381-8013 Brass Expansion Plug Kit			<b>MKP-6092A</b> (1) E-234K Premium Piston Ring Set (1) 6-3310CPA Connecting Rod Bearing Set (1) 260-1424 Gasket Kit (1) 4289M Main Bearing Set (1) 1244M Camshaft Bearing Set (1) KC-809 Cam & Lifter Kit (1) KT3-4SR48 Timing Set - 3 Pc. (1) 224-41198 Oil Pump (6) 677P Cast Piston			<b>MKP-6097A</b> (1) E-454K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1427 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-132 Timing Belt (1) 224-4168 Oil Pump (4) 533P Cast Piston (1) 381-8050 Brass Expansion Plug Kit		
<b>MKP-606C</b> (1) E-217K Premium Piston Ring Set (1) 6-2555A Connecting Rod Bearing Set (1) 260-1005 Gasket Kit (1) 4124MA Main Bearing Set (1) 1557M Camshaft Bearing Set (1) KC-551 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) H909P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>MKP-608C</b> (1) E-219K Premium Piston Ring Set (1) 6-2380CP Connecting Rod Bearing Set (1) 260-1002 Gasket Kit (1) 4290M Main Bearing Set (1) 1439M Camshaft Bearing Set (1) KC-658 Cam & Lifter Kit (1) KT3-351S Timing Set - 3 Pc. (1) 224-41146 Oil Pump (6) 275NP Cast Piston (1) 381-8013 Brass Expansion Plug Kit			<b>MKP-6093A</b> (1) E-454K Premium Piston Ring Set (1) 4-3800CPA Connecting Rod Bearing Set (1) 260-1425 Gasket Kit (1) 6678MA Main Bearing Set (1) 1487M Auxiliary Shaft Bearing Set (1) KC-785C Cam, Lifter & Follower Kit (1) 222-153 Timing Belt			<b>MKP-6098A</b> (1) E-536K Premium Piston Ring Set (1) 6-1460A Connecting Rod Bearing Set (1) 260-1428 Gasket Kit (1) 7050MA Main Bearing Set (1) 1790M Camshaft Bearing Set (1) KC-842 Cam & Lifter Kit (1) KT3-160S Timing Set - 3 Pc. (1) 224-4166 Oil Pump (6) 656P Cast Piston (1) 381-8061 Brass Expansion Plug Kit		

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-6098C</b>			<b>MKP-6110A</b> (cont'd.)			<b>MKP-6114B</b>			<b>MKP-612E</b> (cont'd.)		
(1)	E-536K	Premium Piston Ring Set	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	E-471K	Premium Piston Ring Set	(1)	4916M	Main Bearing Set
(1)	6-1460A	Connecting Rod Bearing Set	(1)	224-41101	Oil Pump	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	1450M	Camshaft Bearing Set
(1)	260-1428	Gasket Kit	(6)	H497P	Cast Piston	(1)	260-1444	Gasket Kit	(1)	KC-1230	Cam & Lifter Kit
(1)	7050MA	Main Bearing Set	(1)	381-8072	Brass Expansion Plug Kit	(1)	7295MA	Main Bearing Set	(1)	221-2764S	Timing Gear Set
(1)	1790M	Camshaft Bearing Set	<b>MKP-6111A</b>			(1)	1886M	Camshaft Bearing Set	(1)	224-41124	Oil Pump
(1)	KC-829	Cam & Lifter Kit	(1)	E-471K	Premium Piston Ring Set	(1)	KC-860	Cam & Lifter Kit	(6)	H519P	Cast Piston
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	381-8014	Brass Expansion Plug Kit
(1)	224-4166	Oil Pump	(1)	260-1441	Gasket Kit	(1)	224-51380	Oil Pump Repair Kit	<b>MKP-6120A</b>		
(6)	656P	Cast Piston	(1)	7295MA	Main Bearing Set	(6)	H523P	Cast Piston	(1)	E-446K	Premium Piston Ring Set
(1)	381-8061	Brass Expansion Plug Kit	(1)	1886M	Camshaft Bearing Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	6-1220RA	Connecting Rod Bearing Set
<b>MKP-6099C</b>			<b>MKP-6111C</b>			<b>MKP-6114C</b>			<b>MKP-6121A</b>		
(1)	E-536K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	260-1222	Gasket Kit
(1)	6-1460A	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	7011MA	Main Bearing Set
(1)	260-1429	Gasket Kit	(1)	260-1441	Gasket Kit	(1)	260-1444	Gasket Kit	(1)	1843M	Camshaft Bearing Set
(1)	7050MA	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	KC-787	Cam & Lifter Kit
(1)	1790M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set	(1)	7295MA	Main Bearing Set	(1)	KT3-374S	Timing Set - 3 Pc.
(1)	KC-1501	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit	(1)	1886M	Camshaft Bearing Set	(1)	224-41101	Oil Pump
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.	(6)	H497P	Cast Piston
(1)	224-4166	Oil Pump	(1)	224-51380	Oil Pump Repair Kit	(1)	224-43567	Oil Pump	(1)	381-8072	Brass Expansion Plug Kit
(6)	656P	Cast Piston	(6)	H523P	Cast Piston	(6)	H523P	Cast Piston	<b>MKP-6121C</b>		
(1)	381-8061	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	E-458K	Premium Piston Ring Set
<b>MKP-6103C</b>			<b>MKP-6112B</b>			<b>MKP-6115A</b>			<b>MKP-6121C</b>		
(1)	E-470KC	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	4-1400AA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1451	Gasket Kit
(1)	260-1205	Gasket Kit	(1)	260-1442	Gasket Kit	(1)	260-1445	Gasket Kit	(1)	4125MA	Main Bearing Set
(1)	6695MA	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-790	Cam & Lifter Kit	(1)	1886M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KC-668	Cam & Lifter Kit
(1)	222-67	Timing Belt	(1)	KC-860	Cam & Lifter Kit	(1)	KT3-760	Cam & Lifter Kit	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	224-41972	Oil Pump	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	224-41118	Oil Pump
(4)	H529P	Cast Piston	(1)	224-43567	Oil Pump	(1)	224-41118	Oil Pump	(8)	517CP	Cast Piston
<b>MKP-6105A</b>			<b>MKP-6112C</b>			<b>MKP-6116A</b>			<b>MKP-6123A</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1434	Gasket Kit	(1)	260-1442	Gasket Kit	(1)	260-1446	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	4979M	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	5078MA	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-860	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	222-14	Timing Belt	(1)	224-51380	Oil Pump Repair Kit	(1)	224-41143	Oil Pump	(1)	224-41118	Oil Pump
(1)	224-41160V	Oil Pump	(6)	H523P	Cast Piston	(1)	463P	Cast Piston	(8)	517CP	Cast Piston
(4)	H537P	Cast Piston	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	381-8029	Brass Expansion Plug Kit	<b>MKP-6113B</b>			<b>MKP-6122C</b>			<b>MKP-6124A</b>		
<b>MKP-6106A</b>			(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	E-465K	Premium Piston Ring Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1442	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	260-1452	Gasket Kit
(1)	260-1436	Gasket Kit	(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	(1)	4907M	Main Bearing Set
(1)	5130M	Main Bearing Set	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	1494M	Camshaft Bearing Set	(1)	KC-860	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit
(1)	KC-788	Cam & Lifter Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set	(1)	KT3-168SA2	Timing Set - 3 Pc.
(1)	KT3-505S	Timing Set - 3 Pc.	(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump	(1)	224-41144	Oil Pump
(1)	224-41100	Oil Pump	(6)	H523P	Cast Piston	(1)	352NP	Cast Piston	(8)	H582P	Cast Piston
(4)	489P	Cast Piston	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-6107A</b>			<b>MKP-6113C</b>			<b>MKP-612D</b>			<b>MKP-6124A</b>		
(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1437	Gasket Kit	(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	260-1453	Gasket Kit
(1)	5130M	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	(1)	4907M	Main Bearing Set
(1)	1494M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-788	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	(1)	KT3-168SA2	Timing Set - 3 Pc.
(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	224-41144	Oil Pump
(1)	224-41100	Oil Pump	(1)	224-51380	Oil Pump Repair Kit	(1)	224-41144	Oil Pump	(8)	H582P	Cast Piston
(4)	489P	Cast Piston	(6)	H523P	Cast Piston	(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-6110A</b>			<b>MKP-6113C</b>			<b>MKP-612E</b>			<b>MKP-613C</b>		
(1)	E-446K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1210	Gasket Kit	(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	7011MA	Main Bearing Set	(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	(1)	4400MA	Main Bearing Set
(1)	1843M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	KC-787	Cam & Lifter Kit	(1)	KC-786	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	KC-660	Cam & Lifter Kit
(cont'd. next column)			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set	(1)	KT3-501SA	Timing Set - 3 Pc.
			(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump	<b>MKP-613C</b>		
			(6)	H523P	Cast Piston	(6)	1109P	Cast Piston	(1)	E-233K	Premium Piston Ring Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	8-3190A	Connecting Rod Bearing Set
			<b>MKP-6113C</b>			<b>MKP-612E</b>			<b>MKP-613C</b>		
			(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	260-1009	Gasket Kit
			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set
			(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	1404M	Camshaft Bearing Set
			(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	(1)	KC-660	Cam & Lifter Kit
			(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.
			(1)	KC-786	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit	<b>MKP-613C</b>		
			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set	(1)	E-233K	Premium Piston Ring Set
			(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump	(1)	8-3190A	Connecting Rod Bearing Set
			(6)	H523P	Cast Piston	(6)	1109P	Cast Piston	(1)	260-1009	Gasket Kit
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	4400MA	Main Bearing Set
			<b>MKP-6113C</b>			<b>MKP-612E</b>			<b>MKP-613C</b>		
			(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	1404M	Camshaft Bearing Set
			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	KC-660	Cam & Lifter Kit
			(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	KT3-501SA	Timing Set - 3 Pc.
			(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	<b>MKP-613C</b>		
			(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	E-233K	Premium Piston Ring Set
			(1)	KC-786	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	8-3190A	Connecting Rod Bearing Set
			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set	(1)	260-1009	Gasket Kit
			(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump	(1)	4400MA	Main Bearing Set
			(6)	H523P	Cast Piston	(6)	1109P	Cast Piston	(1)	1404M	Camshaft Bearing Set
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	KC-660	Cam & Lifter Kit
			<b>MKP-6113C</b>			<b>MKP-612E</b>			<b>MKP-613C</b>		
			(1)	E-471K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set	(1)	KT3-501SA	Timing Set - 3 Pc.
			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	<b>MKP-613C</b>		
			(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	E-233K	Premium Piston Ring Set
			(1)	7295MA	Main Bearing Set	(1)	4916M	Main Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
			(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set	(1)	260-1009	Gasket Kit
			(1)	KC-786	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	4400MA	Main Bearing Set
			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set	(1)	1404M	Camshaft Bearing Set
			(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump	(1)	KC-660	Cam & Lifter Kit
			(6)	H523P	Cast Piston	(6)	1109P	Cast Piston	(1)	KT3-501SA	Timing Set - 3 Pc.
			(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	<b>MKP-613C</b>		
			<b>MKP-6113C</b>			<b>MKP-612E</b>			<b>MKP-613C</b>		
			(1)	E-471							



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-613C</b> (cont'd.)			<b>MKP-614A</b> (cont'd.)			<b>MKP-614H</b> (cont'd.)			<b>MKP-615E</b> (cont'd.)		
(1)	224-4154	Oil Pump	(1)	4124MA	Main Bearing Set	(1)	224-4147	Oil Pump	(1)	4124MA	Main Bearing Set
(8)	H661CP	Cast Piston	(1)	1557M	Camshaft Bearing Set	(6)	403P	Cast Piston	(1)	1557M	Camshaft Bearing Set
(1)	381-8009	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit
<b>MKP-613E</b>			<b>MKP-614C</b>			<b>MKP-6140A</b>			<b>MKP-6151A</b>		
(1)	E-233K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-533K	Premium Piston Ring Set	(1)	E-377K	Premium Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1467	Gasket Kit	(1)	260-1478	Gasket Kit
(1)	4400MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	1404M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	4663MA	Main Bearing Set
(1)	KC-774	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-1505	Cam & Lifter Kit	(1)	1235M	Camshaft Bearing Set
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KT3-377S	Timing Set - 3 Pc.	(1)	KT3-808	Cam & Lifter Kit
(1)	224-4154	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-51379	Oil Pump Repair Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.
(8)	H661CP	Cast Piston	(6)	403P	Cast Piston	(6)	H564P	Cast Piston	(1)	224-4146A	Oil Pump
(1)	381-8009	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(8)	550P	Cast Piston
<b>MKP-6131A</b>			<b>MKP-614D</b>			<b>MKP-6141A</b>			<b>MKP-6152A</b>		
(1)	E-531K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-532K	Premium Piston Ring Set	(1)	E-530K	Premium Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1227	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1469	Gasket Kit	(1)	260-1478	Gasket Kit
(1)	7047MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1485M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-811	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KT3-381SA	Timing Set - 3 Pc.	(1)	KC-808	Cam & Lifter Kit
(1)	KT3-370S	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	381-8073	Brass Expansion Plug Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	224-4151	Oil Pump	(1)	224-4147	Oil Pump	(1)	260-1469	Gasket Kit	(1)	224-4146A	Oil Pump
(4)	569P	Cast Piston	(6)	1107P	Cast Piston	(1)	7144MA	Main Bearing Set	(8)	H597CP	Cast Piston
<b>MKP-6132C</b>			<b>MKP-614E</b>			<b>MKP-6141E</b>			<b>MKP-6153A</b>		
(1)	E-535K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-532K	Premium Piston Ring Set	(1)	E-377K	Premium Piston Ring Set
(1)	4-1540A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1460	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1469	Gasket Kit	(1)	260-1478	Gasket Kit
(1)	7054MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	KC-831	Cam & Lifter Kit	(1)	1203M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-832	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KT3-381S	Timing Set - 3 Pc.	(1)	KC-808	Cam & Lifter Kit
(1)	KT3-D130SA	Timing Set - 3 Pc.	(1)	221-2525S	Timing Gear Set	(1)	KT3-381S	Timing Set - 3 Pc.	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	224-43435	Oil Pump	(1)	224-4147	Oil Pump	(1)	260-1469	Gasket Kit	(1)	224-4146A	Oil Pump
(4)	H566P	Cast Piston	(6)	1107P	Cast Piston	(1)	7144MA	Main Bearing Set	(8)	H597CP	Cast Piston
<b>MKP-6134A</b>			<b>MKP-614F</b>			<b>MKP-6148A</b>			<b>MKP-6154A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set	(1)	E-377K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1464	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1477	Gasket Kit	(1)	260-1268	Gasket Kit
(1)	6689MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4281M	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1461M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-782	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-758	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit
(1)	221-2542LS	Timing Gear Set	(1)	221-2525S	Timing Gear Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(4)	H547P	Cast Piston	(1)	224-4147	Oil Pump	(1)	224-41203	Oil Pump	(1)	224-4146A	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	8H01CP	Cast Piston	(8)	550P	Cast Piston
<b>MKP-6135A</b>			<b>MKP-614G</b>			<b>MKP-6148D</b>			<b>MKP-6155A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1462	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1477	Gasket Kit	(1)	260-1482	Gasket Kit
(1)	6690MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4281M	Main Bearing Set	(1)	6689MA	Main Bearing Set
(1)	1756M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	1461M	Camshaft Bearing Set
(1)	KC-781	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-850	Cam & Lifter Kit	(1)	KC-782	Cam & Lifter Kit
(1)	221-2544S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	221-2542LS	Timing Gear Set
(4)	H547P	Cast Piston	(1)	224-4147	Oil Pump	(1)	224-41203	Oil Pump	(1)	224-41239	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(6)	403P	Cast Piston	(1)	8H01CP	Cast Piston	(4)	H547P	Cast Piston
<b>MKP-6136A</b>			<b>MKP-614H</b>			<b>MKP-615A</b>			<b>MKP-6156A</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1463	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit	(1)	260-1269	Gasket Kit
(1)	6690MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1756M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-781	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	221-2544S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.
(4)	H547CP	Cast Piston	(1)	224-4147	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(6)	403P	Cast Piston	(1)	381-8020	Brass Expansion Plug Kit	(8)	423NP	Cast Piston
<b>MKP-6136A</b>			<b>MKP-614I</b>			<b>MKP-615A</b>			<b>MKP-6156C</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1463	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit	(1)	260-1269	Gasket Kit
(1)	6690MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1756M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-781	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	221-2544S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.
(4)	H547CP	Cast Piston	(1)	224-4147	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8074	Brass Expansion Plug Kit	(6)	403P	Cast Piston	(1)	381-8006	Brass Expansion Plug Kit	(8)	423NP	Cast Piston
<b>MKP-614A</b>			<b>MKP-614J</b>			<b>MKP-615A</b>			<b>MKP-6156C</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1005	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit	(1)	260-1269	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1203M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-633	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	221-2525S	Timing Gear Set	(1)	221-2525S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.
<b>MKP-614A</b>			<b>MKP-614K</b>			<b>MKP-615A</b>			<b>MKP-6156C</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1005	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1019	Gasket Kit	(1)	260-1269	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1203M	Camshaft Bearing Set	(1)	1203M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-633	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	221-2525S	Timing Gear Set	(1)	221-2525S	Timing Gear Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-621D</b> (cont'd.)			<b>MKP-624C</b> (cont'd.)			<b>MKP-625A</b> (cont'd.)			<b>MKP-6253A</b> (cont'd.)		
(1)	1220M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-641	Cam & Lifter Kit	<b>MKP-624E</b>			(1)	260-1028	Gasket Kit	(1)	KC-668	Cam & Lifter Kit
(1)	KT3-350S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	5107M	Main Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	224-41118	Oil Pump
(8)	357P 20	Cast Piston	(1)	260-1014	Gasket Kit	(1)	KC-674	Cam & Lifter Kit	(8)	H654P	Cast Piston
(1)	381-8021	Brass Expansion Plug Kit	(1)	5107M	Main Bearing Set	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit
<b>MKP-621E</b>			(1)	1403M	Camshaft Bearing Set	(1)	224-41143	Oil Pump	<b>MKP-6257A</b>		
(1)	E-245K	Premium Piston Ring Set	(1)	KC-667	Cam & Lifter Kit	(8)	416P	Cast Piston	(1)	E-468K	Premium Piston Ring Set
(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	8-3860P	Connecting Rod Bearing Set
(1)	260-1025	Gasket Kit	(1)	224-41166	Oil Pump	<b>MKP-625C</b>			(1)	260-1619	Gasket Kit
(1)	4040M	Main Bearing Set	(8)	451P	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	7370M	Main Bearing Set
(1)	1220M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	1496M	Camshaft Bearing Set
(1)	KC-690C	Cam & Lifter Kit	<b>MKP-624G</b>			(1)	260-1028	Gasket Kit	(1)	KC-770	Cam & Lifter Kit
(1)	KT3-350S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	5107M	Main Bearing Set	(1)	KT3-181S	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	224-43424	Oil Pump
(8)	357P 20	Cast Piston	(1)	260-1014	Gasket Kit	(1)	KC-674	Cam & Lifter Kit	(8)	H587P	Cast Piston
(1)	381-8021	Brass Expansion Plug Kit	(1)	5078MA	Main Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	381-8057	Brass Expansion Plug Kit
<b>MKP-6212A</b>			(1)	1403M	Camshaft Bearing Set	(1)	224-41143	Oil Pump	<b>MKP-6263A</b>		
(1)	E-446K	Premium Piston Ring Set	(1)	KC-667	Cam & Lifter Kit	(8)	416P	Cast Piston	(1)	E-613K	Premium Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1556	Gasket Kit	(1)	224-41166	Oil Pump	<b>MKP-625D</b>			(1)	260-1652	Gasket Kit
(1)	7011MA	Main Bearing Set	(8)	451P	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	7245MA	Main Bearing Set
(1)	1843M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	KC-787	Cam & Lifter Kit	<b>MKP-624J</b>			(1)	260-1028	Gasket Kit	(1)	KC-1511	Cam & Lifter Kit
(1)	KT3-374S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	5107M	Main Bearing Set	(1)	KT3-64S	Timing Set - 3 Pc.
(6)	H497P	Cast Piston	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	224-43431	Oil Pump
(1)	381-8072	Brass Expansion Plug Kit	(1)	260-1014	Gasket Kit	(1)	KC-674	Cam & Lifter Kit	(6)	H570P	Cast Piston
<b>MKP-6215A</b>			(1)	5078MA	Main Bearing Set	(1)	KT3-358S	Timing Set - 3 Pc.	<b>MKP-6264A</b>		
(1)	E-458K	Premium Piston Ring Set	(1)	1403M	Camshaft Bearing Set	(1)	224-41143	Oil Pump	(1)	E-613K	Premium Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	KC-667	Cam & Lifter Kit	(8)	336P	Cast Piston	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1559	Gasket Kit	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1652	Gasket Kit
(1)	4125MA	Main Bearing Set	(1)	224-41166	Oil Pump	<b>MKP-6250A</b>			(1)	7245MA	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(8)	451P	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	1844M	Camshaft Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	KC-1510	Cam & Lifter Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	<b>MKP-624M</b>			(1)	260-1169	Gasket Kit	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	224-41118	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	224-43431	Oil Pump
(8)	517CP	Cast Piston	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(6)	H570P	Cast Piston
(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1014	Gasket Kit	(1)	KC-668	Cam & Lifter Kit	<b>MKP-6269A</b>		
<b>MKP-6217A</b>			(1)	5107M	Main Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	E-381K	Premium Piston Ring Set
(1)	E-454K	Premium Piston Ring Set	(1)	1403M	Camshaft Bearing Set	(1)	224-41118	Oil Pump	(4)	2555A	Connecting Rod Bearing Pair
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	KC-667	Cam & Lifter Kit	(8)	H654P	Cast Piston	(1)	260-1506M	Gasket Kit
(1)	260-1616	Gasket Kit	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit	(1)	4123MA	Main Bearing Set
(1)	6678MA	Main Bearing Set	(8)	427P	Cast Piston	<b>MKP-6251A</b>			(1)	1461M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	KC-1068M	Cam & Lifter Kit
(1)	KC-785C	Cam, Lifter & Follower Kit	<b>MKP-624N</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	221-2528S	Timing Gear Set
(1)	222-153	Timing Belt	(1)	E-251K	Premium Piston Ring Set	(1)	260-1451	Gasket Kit	(1)	224-4147	Oil Pump
(1)	224-4168	Oil Pump	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(4)	H896CP	Cast Piston
(4)	527P	Cast Piston	(1)	260-1014	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	381-8006	Brass Expansion Plug Kit
(1)	381-8050	Brass Expansion Plug Kit	(1)	5078MA	Main Bearing Set	(1)	KC-668	Cam & Lifter Kit	<b>MKP-6269C</b>		
<b>MKP-622C</b>			(1)	1403M	Camshaft Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	E-381K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	(1)	KC-667	Cam & Lifter Kit	(1)	224-41118	Oil Pump	(4)	2555A	Connecting Rod Bearing Pair
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	KT3-498SA2	Timing Set - 3 Pc.	(8)	H654P	Cast Piston	(1)	260-1505M	Gasket Kit
(1)	260-1033	Gasket Kit	(1)	224-41166	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	4123MA	Main Bearing Set
(1)	4999MA	Main Bearing Set	(8)	427P	Cast Piston	<b>MKP-6251C</b>			(1)	1461M	Camshaft Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	KC-1068M	Cam & Lifter Kit
(1)	KC-665	Cam & Lifter Kit	<b>MKP-624P</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	221-2528S	Timing Gear Set
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	260-1451	Gasket Kit	(1)	224-4147	Oil Pump
(1)	224-4166	Oil Pump	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(4)	H896CP	Cast Piston
(8)	405P	Cast Piston	(1)	260-1014	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	381-8006	Brass Expansion Plug Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	5078MA	Main Bearing Set	(1)	KC-668	Cam & Lifter Kit	<b>MKP-627A</b>		
<b>MKP-624C</b>			(1)	1403M	Camshaft Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	(1)	KC-667	Cam & Lifter Kit	(1)	224-41118	Oil Pump	(1)	8-3380A	Connecting Rod Bearing Set
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	KT3-494SA2	Timing Set - 3 Pc.	(8)	H654P	Cast Piston	(1)	260-1126	Gasket Kit
(1)	260-1014	Gasket Kit	(1)	224-41166	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	5107M	Main Bearing Set
(1)	4925M	Main Bearing Set	(8)	427P	Cast Piston	<b>MKP-6253A</b>			(1)	1204M	Camshaft Bearing Set
(1)	1403M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	KC-674	Cam & Lifter Kit
(1)	KC-667	Cam & Lifter Kit	<b>MKP-625A</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	260-1559	Gasket Kit	(1)	224-41143	Oil Pump
(1)	224-41166	Oil Pump	(1)	8-3400CP	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(8)	416P	Cast Piston
(8)	425NP	Cast Piston	(cont'd. next column)			(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-627C</b>			<b>MKP-630C</b> (cont'd.)			<b>MKP-633A</b> (cont'd.)			<b>MKP-637A</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(8)	472NP	Cast Piston	(1)	E-296K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit	(1)	381-8020	Brass Expansion Plug Kit	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1126	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-6339B</b>			(1)	260-1013	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	224-4146	Oil Pump	(1)	E-471K	Premium Piston Ring Set	(1)	4907M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(8)	423NP	Cast Piston	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-674	Cam & Lifter Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1612	Gasket Kit	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-358SA	Timing Set - 3 Pc.	<b>MKP-630D</b>			(1)	260-1612	Gasket Kit	(1)	KT3-491SA	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	7086MA	Main Bearing Set	(1)	224-41139	Oil Pump
(8)	463P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	1886M	Camshaft Bearing Set	(8)	413AP	Cast Piston
(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1000	Gasket Kit	(1)	KC-861	Cam & Lifter Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-627D</b>			(1)	4663MA	Main Bearing Set	(1)	KT3-365SA1	Timing Set - 3 Pc.	<b>MKP-637C</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	224-43567	Oil Pump	(1)	E-296K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit	(6)	H675CP	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1126	Gasket Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8053	Brass Expansion Plug Kit	(1)	260-1013	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	224-4146	Oil Pump	<b>MKP-634A</b>			(1)	4907M	Main Bearing Set
(1)	1204M	Camshaft Bearing Set	(8)	345NP	Cast Piston	(1)	E-288K	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-764	Cam & Lifter Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-163SA	Timing Set - 3 Pc.	<b>MKP-630F</b>			(1)	260-1012	Gasket Kit	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-41143	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	4418M	Main Bearing Set	(1)	224-41139	Oil Pump
(8)	463P	Cast Piston	(1)	8-2555A	Connecting Rod Bearing Set	(1)	1422M	Camshaft Bearing Set	(8)	413AP	Cast Piston
(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1000	Gasket Kit	(1)	KC-647	Cam & Lifter Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-6270A</b>			(1)	4663MA	Main Bearing Set	(1)	KT3-359S	Timing Set - 3 Pc.	<b>MKP-637D</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	224-518	Oil Pump Repair Kit	(1)	E-296K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	KC-274	Cam & Lifter Kit	(8)	657P 30	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1508M	Gasket Kit	(1)	KT3-163S	Timing Set - 3 Pc.	(1)	381-8002	Brass Expansion Plug Kit	(1)	260-1013	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	224-4146	Oil Pump	<b>MKP-634C</b>			(1)	4907M	Main Bearing Set
(1)	1203M	Camshaft Bearing Set	(8)	423NP	Cast Piston	(1)	E-288K	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-1092M	Cam & Lifter Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	<b>MKP-632E</b>			(1)	260-1012	Gasket Kit	(1)	KT3-491SA	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	E-424K	Premium Piston Ring Set	(1)	4418M	Main Bearing Set	(1)	224-41139	Oil Pump
(6)	403P	Cast Piston	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	1422M	Camshaft Bearing Set	(8)	H418P	Cast Piston
(1)	381-8006	Brass Expansion Plug Kit	(1)	260-1001	Gasket Kit	(1)	KC-676	Cam & Lifter Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-6270C</b>			(1)	5025MA	Main Bearing Set	(1)	KT3-359S	Timing Set - 3 Pc.	<b>MKP-637E</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	1453M	Camshaft Bearing Set	(1)	224-518	Oil Pump Repair Kit	(1)	E-296K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	KC-327	Cam & Lifter Kit	(8)	657P 30	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1508M	Gasket Kit	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	381-8002	Brass Expansion Plug Kit	(1)	260-1013	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	224-4174	Oil Pump	<b>MKP-6361</b>			(1)	4907M	Main Bearing Set
(1)	1557M	Camshaft Bearing Set	(8)	424P	Cast Piston	(1)	E-454K	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-1092M	Cam & Lifter Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	<b>MKP-632G</b>			(1)	260-1427	Gasket Kit	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	E-424K	Premium Piston Ring Set	(1)	6678MA	Main Bearing Set	(1)	224-41139	Oil Pump
(6)	403P	Cast Piston	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	1840M	Camshaft Bearing Set	(8)	H418P	Cast Piston
(1)	381-8006	Brass Expansion Plug Kit	(1)	260-1001	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-6271A</b>			(1)	4924MA	Main Bearing Set	(1)	222-153	Timing Belt	<b>MKP-637F</b>		
(1)	E-245K	Premium Piston Ring Set	(1)	1453M	Camshaft Bearing Set	(1)	224-4168	Oil Pump	(1)	E-296K	Premium Piston Ring Set
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	KC-327	Cam & Lifter Kit	(4)	527P	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1510M	Gasket Kit	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	381-8050	Brass Expansion Plug Kit	(1)	260-1013	Gasket Kit
(1)	994M	Main Bearing Set	(1)	224-4174	Oil Pump	<b>MKP-6367</b>			(1)	4907M	Main Bearing Set
(1)	1145M	Camshaft Bearing Set	(8)	424P	Cast Piston	(1)	E-465K	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-163S	Timing Set - 3 Pc.	<b>MKP-6329A</b>			(1)	260-1437	Gasket Kit	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	E-528KC	Premium Piston Ring Set	(1)	5130M	Main Bearing Set	(1)	224-41144	Oil Pump
(8)	235NP	Cast Piston	(1)	6-1735CP	Connecting Rod Bearing Set	(1)	1494M	Camshaft Bearing Set	(8)	H418P	Cast Piston
(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1432	Gasket Kit	(1)	KC-788	Cam & Lifter Kit	(1)	381-8018	Brass Expansion Plug Kit
<b>MKP-630A</b>			(1)	7090M	Main Bearing Set	(1)	KT3-505S	Timing Set - 3 Pc.	<b>MKP-637G</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	1736AF	Thrust Washer Set	(1)	224-41100	Oil Pump	(1)	E-296K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	KC-864	Cam & Lifter Kit	(4)	489P	Cast Piston	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1000	Gasket Kit	(1)	KC-865	Cam & Lifter Kit	(1)	381-8063	Brass Expansion Plug Kit	(1)	260-1013	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	222-139	Timing Belt	<b>MKP-6369</b>			(1)	4907M	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	224-42000	Oil Pump	(1)	E-536K	Premium Piston Ring Set	(1)	1414M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(6)	H834CP	Cast Piston	(1)	6-1460A	Connecting Rod Bearing Set	(1)	KC-648	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-633A</b>			(1)	260-1429	Gasket Kit	(1)	KT3-491S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	E-288K	Premium Piston Ring Set	(1)	7050MA	Main Bearing Set	(4)	221-2542LS	Timing Gear Set
(8)	310NP	Cast Piston	(1)	8-3045A	Connecting Rod Bearing Set	(1)	1790M	Camshaft Bearing Set	(8)	H547CP	Cast Piston
<b>MKP-630C</b>			(1)	260-1124	Gasket Kit	(1)	KC-1501	Cam & Lifter Kit	(1)	381-8074	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	4281M	Main Bearing Set	(1)	KT3-380S	Timing Set - 3 Pc.	<b>MKP-6373A</b>		
(1)	8-2555A	Connecting Rod Bearing Set	(1)	1466M	Camshaft Bearing Set	(1)	224-4166	Oil Pump	(1)	E-384K	Premium Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	KC-707	Cam & Lifter Kit	(6)	656P	Cast Piston	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	4663MA	Main Bearing Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	381-8061	Brass Expansion Plug Kit	(1)	260-1463	Gasket Kit
		(cont'd. next column)	(1)	224-41203	Oil Pump				(1)	6690MA	Main Bearing Set
					(cont'd. next column)						(cont'd. next page)

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-6374A</b> (cont'd.)			<b>MKP-6405A</b>			<b>MKP-653A</b> (cont'd.)			<b>MKP-653L</b> (cont'd.)		
(1)	1756M	Camshaft Bearing Set	(1)	E-532K	Premium Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	224-41118	Oil Pump
(1)	KC-1518	Cam & Lifter Kit	(1)	6-3760A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(8)	273AP	Cast Piston
(4)	KT3-378S	Timing Set - 3 Pc.	(1)	260-1566	Gasket Kit	(1)	KC-560	Cam & Lifter Kit	(1)	381-8015	Brass Expansion Plug Kit
(4)	H547CP	Cast Piston	(1)	7144MA	Main Bearing Set	(1)	KT3-356S	Timing Set - 3 Pc.			
(1)	381-8074	Brass Expansion Plug Kit	(1)	1755M	Camshaft Bearing Set	(1)	224-41118	Oil Pump			
			(1)	KC-1506	Cam & Lifter Kit	(8)	272AP	Cast Piston			
			(1)	KT3-381S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit			
			(1)	224-51379	Oil Pump Repair Kit						
			(6)	H558P	Cast Piston						
<b>MKP-6377</b>			<b>MKP-642A</b>			<b>MKP-653D</b>			<b>MKP-658A</b>		
(1)	E-178K	Premium Piston Ring Set	(1)	E-318K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1430	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1045	Gasket Kit
(1)	5095MA	Main Bearing Set	(1)	4094M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	1453M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-1565	Cam & Lifter Kit	(1)	KC-327	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-501S	Timing Set - 3 Pc.	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4174	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(8)	526P	Cast Piston	(8)	406AP	Cast Piston	(8)	272AP	Cast Piston	(8)	423NP	Cast Piston
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8011	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
<b>MKP-6379</b>			<b>MKP-646A</b>			<b>MKP-653F</b>			<b>MKP-658C</b>		
(1)	E-605K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1466	Gasket Kit	(1)	260-1018	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1045	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	4979M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
(1)	1492M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-715	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.
(1)	224-4148	Oil Pump	(1)	222-14	Timing Belt	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(6)	H562CP	Cast Piston	(1)	224-41160	Oil Pump	(8)	272AP	Cast Piston	(8)	423NP	Cast Piston
(1)	381-8085	Brass Expansion Plug Kit	(4)	H435P	Cast Piston	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
			(1)	381-8029	Brass Expansion Plug Kit						
<b>MKP-638A</b>			<b>MKP-647A</b>			<b>MKP-653G</b>			<b>MKP-660A</b>		
(1)	E-297K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1022	Gasket Kit	(1)	260-1023	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1046	Gasket Kit
(1)	4281M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4400MA	Main Bearing Set
(1)	1466M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	KC-707	Cam & Lifter Kit	(1)	KC-673	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-501SA	Timing Set - 3 Pc.
(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4154	Oil Pump
(8)	332AP	Cast Piston	(8)	454NP	Cast Piston	(8)	272AP	Cast Piston	(8)	H661CP	Cast Piston
(1)	381-8020	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit
<b>MKP-638A</b>			<b>MKP-648A</b>			<b>MKP-653H</b>			<b>MKP-661A</b>		
(1)	E-297K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-243K	Premium Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1022	Gasket Kit	(1)	260-1024	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1009	Gasket Kit
(1)	4281M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4400MA	Main Bearing Set
(1)	1466M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	KC-707	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-501SA	Timing Set - 3 Pc.
(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4154	Oil Pump
(8)	332AP	Cast Piston	(8)	454NP	Cast Piston	(8)	272AP	Cast Piston	(8)	402P	Cast Piston
(1)	381-8020	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit
<b>MKP-6380</b>			<b>MKP-648A</b>			<b>MKP-653J</b>			<b>MKP-662A</b>		
(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit	(1)	260-1024	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1145M	Camshaft Bearing Set
(1)	KC-783	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-356S	Timing Set - 3 Pc.	(1)	KT3-489S	Timing Set - 3 Pc.
(1)	645P	Cast Piston	(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8058	Brass Expansion Plug Kit	(8)	454NP	Cast Piston	(8)	273AP	Cast Piston	(1)	310NP	Cast Piston
			(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit			
<b>MKP-6380</b>			<b>MKP-648D</b>			<b>MKP-653L</b>			<b>MKP-662C</b>		
(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit	(1)	260-1024	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	5085MA	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set
(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1145M	Camshaft Bearing Set
(1)	KC-783	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-356S	Timing Set - 3 Pc.	(1)	KT3-489S	Timing Set - 3 Pc.
(1)	645P	Cast Piston	(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(1)	381-8058	Brass Expansion Plug Kit	(8)	454NP	Cast Piston	(8)	273AP	Cast Piston	(1)	310NP	Cast Piston
			(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit			
<b>MKP-639C</b>			<b>MKP-648D</b>			<b>MKP-653L</b>			<b>MKP-662C</b>		
(1)	E-297K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1008	Gasket Kit	(1)	260-1024	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	4281M	Main Bearing Set	(1)	4663MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set
(1)	1234M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1145M	Camshaft Bearing Set
(1)	KC-707	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-356S	Timing Set - 3 Pc.	(1)	KT3-489S	Timing Set - 3 Pc.
(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(8)	332AP	Cast Piston	(8)	454NP	Cast Piston	(8)	273AP	Cast Piston	(1)	310NP	Cast Piston
(1)	381-8020	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit			
<b>MKP-640E</b>			<b>MKP-653A</b>			<b>MKP-653L</b>			<b>MKP-662D</b>		
(1)	E-299K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1025	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	4040M	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	994M	Main Bearing Set
(1)	1220M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1145M	Camshaft Bearing Set
(1)	KC-690C	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-560	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-350S	Timing Set - 3 Pc.	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	KT3-489S	Timing Set - 3 Pc.
(1)	224-43364S	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(8)	411NP	Cast Piston	(8)	273AP	Cast Piston	(8)	273AP	Cast Piston	(1)	310NP	Cast Piston
(1)	381-8021	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit			

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-662D</b> (cont'd.)			<b>MKP-667G</b> (cont'd.)			<b>MKP-699D</b> (cont'd.)			<b>MKP-7012</b> (cont'd.)		
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	224-4174	Oil Pump	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1463M	Camshaft Bearing Set
(1)	260-1000	Gasket Kit	(8)	366NP	Cast Piston	(1)	260-1123	Gasket Kit	(1)	KC-783	Cam & Lifter Kit
(1)	994M	Main Bearing Set	<b>MKP-683C</b>			(1)	5090MA	Main Bearing Set	(1)	KT3-499SA6	Timing Set - 3 Pc.
(1)	1235M	Camshaft Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	224-4146	Oil Pump
(1)	KC-274	Cam & Lifter Kit	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	KC-715	Cam & Lifter Kit	(6)	645P	Cast Piston
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1095	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8058	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	4999MA	Main Bearing Set	(1)	224-4148	Oil Pump	<b>MKP-7021</b>		
(8)	310NP	Cast Piston	(1)	1484M	Camshaft Bearing Set	(6)	464P	Cast Piston	(1)	E-356K	Premium Piston Ring Set
<b>MKP-662E</b>			(1)	KC-665	Cam & Lifter Kit	(6)	381-8046	Brass Expansion Plug Kit	(1)	8-2555A	Connecting Rod Bearing Set
(1)	E-251K	Premium Piston Ring Set	(1)	KT3-160S	Timing Set - 3 Pc.	<b>MKP-699E</b>			(1)	260-1246	Gasket Kit
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	224-4166	Oil Pump	(1)	E-411K	Premium Piston Ring Set	(1)	4663MA	Main Bearing Set
(1)	260-1000	Gasket Kit	(8)	405P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	994M	Main Bearing Set	(1)	381-8010	Brass Expansion Plug Kit	(1)	260-1123	Gasket Kit	(1)	KC-711	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	<b>MKP-686A</b>			(1)	5090MA	Main Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	E-232K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	224-43469	Oil Pump
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	8-3190A	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(8)	536NP	Cast Piston
(1)	224-4149	Oil Pump	(1)	260-1009	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8059	Brass Expansion Plug Kit
(8)	310NP	Cast Piston	(1)	4400MA	Main Bearing Set	(1)	224-4148	Oil Pump	<b>MKP-7028</b>		
<b>MKP-662F</b>			(1)	1255M	Camshaft Bearing Set	(6)	464P	Cast Piston	(1)	E-233K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	(1)	KC-636	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	8-3190A	Connecting Rod Bearing Set
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	<b>MKP-7000</b>			(1)	260-1418	Gasket Kit
(1)	260-1000	Gasket Kit	(1)	224-4154	Oil Pump	(1)	E-605K	Premium Piston Ring Set	(1)	4400MA	Main Bearing Set
(1)	994M	Main Bearing Set	(8)	460P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	1235M	Camshaft Bearing Set	(1)	381-8009	Brass Expansion Plug Kit	(1)	260-1466	Gasket Kit	(1)	KC-774	Cam & Lifter Kit
(1)	KC-274	Cam & Lifter Kit	<b>MKP-686C</b>			(1)	7242MA	Main Bearing Set	(1)	KT3-507S	Timing Set - 3 Pc.
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	E-232K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	224-4154G	Oil Pump
(1)	224-4149	Oil Pump	(1)	8-3190A	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(8)	H518CP	Cast Piston
(8)	310NP	Cast Piston	(1)	260-1009	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8009	Brass Expansion Plug Kit
<b>MKP-662J</b>			(1)	4400MA	Main Bearing Set	(1)	224-4148	Oil Pump	<b>MKP-7033</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	1404M	Camshaft Bearing Set	(6)	H562CP	Cast Piston	(1)	E-446K	Premium Piston Ring Set
(1)	8-2020CP	Connecting Rod Bearing Set	(1)	KC-636	Cam & Lifter Kit	(1)	381-8085	Brass Expansion Plug Kit	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	260-1000	Gasket Kit	(1)	KT3-501SA	Timing Set - 3 Pc.	<b>MKP-7001</b>			(1)	260-1556	Gasket Kit
(1)	994M	Main Bearing Set	(1)	224-4154	Oil Pump	(1)	E-605K	Premium Piston Ring Set	(1)	7011MA	Main Bearing Set
(1)	1235M	Camshaft Bearing Set	(8)	460P	Cast Piston	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	381-8009	Brass Expansion Plug Kit	(1)	260-1466	Gasket Kit	(1)	KC-787	Cam & Lifter Kit
(1)	KT3-499S	Timing Set - 3 Pc.	<b>MKP-691C</b>			(1)	7242MA	Main Bearing Set	(1)	KT3-374S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	E-369K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	224-43636S	Oil Pump
(8)	H951P 30	Cast Piston	(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(6)	H497P	Cast Piston
(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1032	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	381-8072	Brass Expansion Plug Kit
<b>MKP-667E</b>			(1)	7144MA	Main Bearing Set	(1)	224-4152	Oil Pump	<b>MKP-7044</b>		
(1)	E-233K	Premium Piston Ring Set	(1)	1462M	Camshaft Bearing Set	(6)	H562CP	Cast Piston	(1)	E-458K	Premium Piston Ring Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	224-518	Oil Pump Repair Kit	<b>MKP-7002</b>			(1)	260-1445	Gasket Kit
(1)	4094M	Main Bearing Set	(6)	450NP	Cast Piston	(1)	E-605K	Premium Piston Ring Set	(1)	4125MA	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	381-8035	Brass Expansion Plug Kit	(1)	6-4020A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-327	Cam & Lifter Kit	<b>MKP-692A</b>			(1)	260-1233	Gasket Kit	(1)	KC-759	Cam & Lifter Kit
(1)	KT3-501S	Timing Set - 3 Pc.	(1)	E-414K	Premium Piston Ring Set	(1)	7242MA	Main Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	224-4174	Oil Pump	(1)	6-3750P	Connecting Rod Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	224-41118	Oil Pump
(8)	366NP	Cast Piston	(1)	260-1101	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(8)	506P	Cast Piston
(1)	381-8011	Brass Expansion Plug Kit	(1)	5085MA	Main Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	381-8015	Brass Expansion Plug Kit
<b>MKP-667F</b>			(1)	1463M	Camshaft Bearing Set	<b>MKP-7003</b>			<b>MKP-7050</b>		
(1)	E-233K	Premium Piston Ring Set	(1)	KC-712	Cam & Lifter Kit	(1)	E-605K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	224-4146	Oil Pump	(1)	260-1233	Gasket Kit	(1)	260-1192	Gasket Kit
(1)	4094M	Main Bearing Set	(6)	698P 30	Cast Piston	(1)	7242MA	Main Bearing Set	(1)	6676M	Main Bearing Set
(1)	1453M	Camshaft Bearing Set	(1)	381-8049	Brass Expansion Plug Kit	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	KC-327A	Cam & Lifter Kit	<b>MKP-695B</b>			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-779	Cam & Lifter Kit
(1)	KT3-501S	Timing Set - 3 Pc.	(1)	E-378K	Premium Piston Ring Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.
(1)	224-4174	Oil Pump	(1)	8-3045A	Connecting Rod Bearing Set	(1)	224-4152	Oil Pump	(1)	224-41198	Oil Pump
(8)	366NP	Cast Piston	(1)	260-1104	Gasket Kit	(1)	H561CP	Cast Piston	(4)	525CP	Cast Piston
(1)	381-8011	Brass Expansion Plug Kit	(1)	4281M	Main Bearing Set	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8086	Brass Expansion Plug Kit
<b>MKP-667G</b>			(1)	1466M	Camshaft Bearing Set	<b>MKP-7003</b>			<b>MKP-7050</b>		
(1)	E-233K	Premium Piston Ring Set	(1)	KC-707	Cam & Lifter Kit	(1)	E-605K	Premium Piston Ring Set	(1)	260-1192	Gasket Kit
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6676M	Main Bearing Set
(1)	260-1001	Gasket Kit	(1)	224-41203	Oil Pump	(1)	260-1233	Gasket Kit	(1)	1244M	Camshaft Bearing Set
(1)	4094M	Main Bearing Set	(8)	466NP	Cast Piston	(1)	7242MA	Main Bearing Set	(1)	KC-779	Cam & Lifter Kit
(1)	1453M	Camshaft Bearing Set	(1)	381-8047	Brass Expansion Plug Kit	(1)	1492M	Camshaft Bearing Set	(1)	KT3-3SR64S	Timing Set - 3 Pc.
(1)	KC-327A	Cam & Lifter Kit	<b>MKP-699D</b>			(1)	KC-1539	Cam & Lifter Kit	(1)	224-41198	Oil Pump
(1)	KT3-495S	Timing Set - 3 Pc.	(1)	E-411K	Premium Piston Ring Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	525CP	Cast Piston
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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-7053</b> (cont'd.)			<b>MKP-713A</b> (cont'd.)			<b>MKP-718D</b>			<b>MKP-728C</b> (cont'd.)		
(6)	<b>677CP</b>	Cast Piston	(8)	<b>L-2316F 20</b>	Power Forged Piston	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>1492M</b>	Camshaft Bearing Set
(1)	<b>381-8084</b>	Brass Expansion Plug Kit	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>KC-715</b>	Cam & Lifter Kit
<b>MKP-7057</b>			<b>MKP-715A</b>			<b>MKP-718H</b>			<b>MKP-728H</b>		
(1)	<b>E-454K</b>	Premium Piston Ring Set	(1)	<b>E-301K</b>	Premium Piston Ring Set	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1144</b>	Gasket Kit
(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set	(1)	<b>8-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set
(1)	<b>260-1427</b>	Gasket Kit	(1)	<b>260-1151</b>	Gasket Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set
(1)	<b>6678MA</b>	Main Bearing Set	(1)	<b>5037M</b>	Main Bearing Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>KC-715</b>	Cam & Lifter Kit
(1)	<b>1840M</b>	Camshaft Bearing Set	(1)	<b>1401M</b>	Camshaft Bearing Set	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.
(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set	(1)	<b>KC-646</b>	Cam & Lifter Kit	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(6)	<b>516P</b>	Cast Piston
(1)	<b>KC-785C</b>	Cam, Lifter & Follower Kit	(1)	<b>KT3-369S</b>	Timing Set - 3 Pc.	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>381-8046</b>	Brass Expansion Plug Kit
(1)	<b>222-153</b>	Timing Belt	(1)	<b>224-51285</b>	Oil Pump Repair Kit	<b>MKP-718J</b>			<b>MKP-728L</b>		
(1)	<b>224-4168</b>	Oil Pump	(8)	<b>362NP</b>	Cast Piston	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-432K</b>	Premium Piston Ring Set
(4)	<b>527P</b>	Cast Piston	(1)	<b>381-8001</b>	Brass Expansion Plug Kit	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set
(1)	<b>381-8050</b>	Brass Expansion Plug Kit	<b>MKP-716A</b>			<b>MKP-718K</b>			<b>MKP-728M</b>		
<b>MKP-7058</b>			(1)	<b>E-222K</b>	Premium Piston Ring Set	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1144</b>	Gasket Kit
(1)	<b>E-454K</b>	Premium Piston Ring Set	(1)	<b>6-3310CPA</b>	Connecting Rod Bearing Set	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set
(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set	(1)	<b>260-1134</b>	Gasket Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set
(1)	<b>260-1616</b>	Gasket Kit	(1)	<b>4289M</b>	Main Bearing Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>KC-1539</b>	Cam & Lifter Kit
(1)	<b>6678MA</b>	Main Bearing Set	(1)	<b>1244M</b>	Camshaft Bearing Set	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.
(1)	<b>1840M</b>	Camshaft Bearing Set	(1)	<b>KC-713</b>	Cam & Lifter Kit	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump
(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set	(1)	<b>KT3-494S</b>	Timing Set - 3 Pc.	(8)	<b>526P</b>	Cast Piston	(6)	<b>516P</b>	Cast Piston
(1)	<b>KC-785C</b>	Cam, Lifter & Follower Kit	(1)	<b>224-41198</b>	Oil Pump	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8046</b>	Brass Expansion Plug Kit
(1)	<b>222-153</b>	Timing Belt	<b>MKP-717A</b>			<b>MKP-718J</b>			<b>MKP-728N</b>		
(1)	<b>224-4168</b>	Oil Pump	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-432K</b>	Premium Piston Ring Set
(4)	<b>527P</b>	Cast Piston	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set
(1)	<b>381-8050</b>	Brass Expansion Plug Kit	(1)	<b>260-1153</b>	Gasket Kit	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1144</b>	Gasket Kit
<b>MKP-7059</b>			(1)	<b>4923MA</b>	Main Bearing Set	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>5090MA</b>	Main Bearing Set
(1)	<b>E-454K</b>	Premium Piston Ring Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set
(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>KC-1539</b>	Cam & Lifter Kit
(1)	<b>260-1616</b>	Gasket Kit	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-372S</b>	Timing Set - 3 Pc.
(1)	<b>6678MA</b>	Main Bearing Set	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump
(1)	<b>1840M</b>	Camshaft Bearing Set	(8)	<b>285NP</b>	Cast Piston	(8)	<b>526P</b>	Cast Piston	(6)	<b>516P</b>	Cast Piston
(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8046</b>	Brass Expansion Plug Kit
(1)	<b>KC-785C</b>	Cam, Lifter & Follower Kit	<b>MKP-717C</b>			<b>MKP-718K</b>			<b>MKP-739A</b>		
(1)	<b>222-153</b>	Timing Belt	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-234K</b>	Premium Piston Ring Set
(1)	<b>224-4168</b>	Oil Pump	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set
(4)	<b>527P</b>	Cast Piston	(1)	<b>260-1153</b>	Gasket Kit	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1129</b>	Gasket Kit
(1)	<b>381-8050</b>	Brass Expansion Plug Kit	(1)	<b>5024MA</b>	Main Bearing Set	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>4124MA</b>	Main Bearing Set
<b>MKP-7060</b>			(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1557M</b>	Camshaft Bearing Set
(1)	<b>E-454K</b>	Premium Piston Ring Set	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>KC-633</b>	Cam & Lifter Kit
(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>221-2528S</b>	Timing Gear Set
(1)	<b>260-1427</b>	Gasket Kit	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>224-4147</b>	Oil Pump
(1)	<b>6678MA</b>	Main Bearing Set	(8)	<b>285NP</b>	Cast Piston	(1)	<b>224-4166</b>	Oil Pump	(6)	<b>403P</b>	Cast Piston
(1)	<b>1840M</b>	Camshaft Bearing Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8006</b>	Brass Expansion Plug Kit
(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set	<b>MKP-718A</b>			<b>MKP-718L</b>			<b>MKP-739C</b>		
(1)	<b>KC-785C</b>	Cam, Lifter & Follower Kit	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-234K</b>	Premium Piston Ring Set
(1)	<b>222-153</b>	Timing Belt	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set
(1)	<b>224-4168</b>	Oil Pump	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>260-1129</b>	Gasket Kit
(4)	<b>527P</b>	Cast Piston	(1)	<b>5024MA</b>	Main Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>4124MA</b>	Main Bearing Set
(1)	<b>381-8050</b>	Brass Expansion Plug Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>1557M</b>	Camshaft Bearing Set
<b>MKP-7062</b>			(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>KC-633</b>	Cam & Lifter Kit
(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>221-2528S</b>	Timing Gear Set
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>224-4147</b>	Oil Pump
(1)	<b>260-1430</b>	Gasket Kit	(8)	<b>285NP</b>	Cast Piston	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(6)	<b>403P</b>	Cast Piston
(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>381-8006</b>	Brass Expansion Plug Kit
(1)	<b>1484M</b>	Camshaft Bearing Set	<b>MKP-718C</b>			<b>MKP-718M</b>			<b>MKP-739D</b>		
(1)	<b>KC-1565</b>	Cam & Lifter Kit	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-234K</b>	Premium Piston Ring Set
(1)	<b>KT3-380S</b>	Timing Set - 3 Pc.	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1129</b>	Gasket Kit
(8)	<b>526P</b>	Cast Piston	(1)	<b>5024MA</b>	Main Bearing Set	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>4124MA</b>	Main Bearing Set
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1557M</b>	Camshaft Bearing Set
<b>MKP-7066</b>			(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>KC-677</b>	Cam & Lifter Kit
(1)	<b>E-454K</b>	Premium Piston Ring Set	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-160S</b>	Timing Set - 3 Pc.	(1)	<b>221-2540S</b>	Timing Gear Set
(1)	<b>4-3800CPA</b>	Connecting Rod Bearing Set	(1)	<b>224-4166</b>	Oil Pump	(8)	<b>285NP</b>	Cast Piston	(1)	<b>224-4147</b>	Oil Pump
(1)	<b>260-1427</b>	Gasket Kit	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(6)	<b>403P</b>	Cast Piston
(1)	<b>6678MA</b>	Main Bearing Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>381-8006</b>	Brass Expansion Plug Kit
(1)	<b>1840M</b>	Camshaft Bearing Set	<b>MKP-718D</b>			<b>MKP-727K</b>			<b>MKP-739E</b>		
(1)	<b>1487M</b>	Auxiliary Shaft Bearing Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-432K</b>	Premium Piston Ring Set	(1)	<b>260-1129</b>	Gasket Kit
(1)	<b>KC-785C</b>	Cam, Lifter & Follower Kit	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>4124MA</b>	Main Bearing Set
(1)	<b>222-153</b>	Timing Belt	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>1557M</b>	Camshaft Bearing Set
(1)	<b>224-4168</b>	Oil Pump	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>KC-633</b>	Cam & Lifter Kit
(4)	<b>527P</b>	Cast Piston	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>221-2540S</b>	Timing Gear Set
(1)	<b>381-8050</b>	Brass Expansion Plug Kit	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>224-4147</b>	Oil Pump
<b>MKP-7068</b>			(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(6)	<b>403P</b>	Cast Piston
(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>224-4166</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>381-8006</b>	Brass Expansion Plug Kit
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>7242MA</b>	Main Bearing Set	(6)	<b>403P</b>	Cast Piston
(1)	<b>260-1430</b>	Gasket Kit	<b>MKP-718E</b>			<b>MKP-728C</b>			<b>MKP-739D</b>		
(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-432K</b>	Premium Piston Ring Set	(1)	<b>E-234K</b>	Premium Piston Ring Set
(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set
(1)	<b>KC-1565</b>	Cam & Lifter Kit	(1)	<b>260-1152</b>	Gasket Kit	(1)	<b>260-1144</b>	Gasket Kit	(1)	<b>260-1129</b>	Gasket Kit
(1)	<b>KT3-380S</b>	Timing Set - 3 Pc.	(1)	<b>5095MA</b>	Main Bearing Set	(1)	<b>7242MA</b>	Main Bearing Set	(1)	<b>4124MA</b>	Main Bearing Set
(1)	<b>224-4166</b>	Oil Pump	(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>1492M</b>	Camshaft Bearing Set	(1)	<b>1557M</b>	Camshaft Bearing Set
(8)	<b>526P</b>	Cast Piston	(1)	<b>KC-645</b>	Cam & Lifter Kit	(1)	<b>KC-715</b>	Cam & Lifter Kit	(1)	<b>KC-633</b>	Cam & Lifter Kit
(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>KT3-361S</b>	Timing Set - 3 Pc.	(1)	<b>KT3-368S</b>	Timing Set - 3 Pc.	(1)	<b>221-2540S</b>	Timing Gear Set
<b>MKP-713A</b>			(1)	<b>224-4166</b>	Oil Pump	(1)	<b>224-4148</b>	Oil Pump	(1)	<b>224-4147</b>	Oil Pump
(1)	<b>E-286K</b>	Premium Piston Ring Set	(1)	<b>381-8010</b>	Brass Expansion Plug Kit	(1)	<b>7242MA</b>	Main Bearing Set	(6)	<b>403P</b>	Cast Piston
(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	<b>MKP-718F</b>			<b>MKP-728C</b>			<b>MKP-739D</b>		
(1)	<b>260-1121</b>	Gasket Kit	(1)	<b>E-178K</b>	Premium Piston Ring Set	(1)	<b>E-432K</b>	Premium Piston Ring Set	(1)	<b>E-234K</b>	Premium Piston Ring Set
(1)	<b>4923MA</b>	Main Bearing Set	(1)	<b>8-2130CP</b>	Connecting Rod Bearing Set	(1)	<b>6-4020A</b>	Connecting Rod Bearing Set	(1)	<b>6-2020CP</b>	Connecting Rod Bearing Set
(1)	<b>1484M</b>	Camshaft Bearing Set	(1)	<b>260-1152</b>	Gasket Kit	(1)					

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-739D</b> (cont'd.)			<b>MKP-757A</b>			<b>MKP-763A</b> (cont'd.)			<b>MKP-854A</b> (cont'd.)		
(1)	381-8006	Brass Expansion Plug Kit	(1)	E-415K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set	(1)	KT-1020S	Timing Set - Complete
<b>MKP-743A</b>			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	224-41902	Oil Pump
(1)	E-178K	Premium Piston Ring Set	(1)	260-1166	Gasket Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	12326P	Cast Piston
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	7295MA	Main Bearing Set	(1)	KC-767C	Cam, Lifter & Follower Kit	(4)	381-8042	Brass Expansion Plug Kit
(1)	260-1121	Gasket Kit	(1)	1493M	Camshaft Bearing Set	(1)	222-14	Timing Belt	<b>MKP-858A</b>		
(1)	5024MA	Main Bearing Set	(1)	KC-733	Cam & Lifter Kit	(1)	224-41160	Oil Pump	(1)	E-450K	Premium Piston Ring Set
(1)	1484M	Camshaft Bearing Set	(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	H435P	Cast Piston	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	KC-645	Cam & Lifter Kit	(1)	224-51162	Oil Pump Repair Kit	(1)	381-8029	Brass Expansion Plug Kit	(1)	260-1191	Gasket Kit
(1)	KT3-361S	Timing Set - 3 Pc.	(6)	481P	Cast Piston	<b>MKP-765C</b>			(1)	6676M	Main Bearing Set
(1)	224-4166	Oil Pump	(1)	381-8053	Brass Expansion Plug Kit	(1)	E-229K	Premium Piston Ring Set	(1)	1244M	Camshaft Bearing Set
(8)	285NP	Cast Piston	<b>MKP-758A</b>			(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	KC-779	Cam & Lifter Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	E-415K	Premium Piston Ring Set	(1)	260-1174	Gasket Kit	(1)	KT3-3SR64S	Timing Set - 3 Pc.
<b>MKP-744C</b>			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4916M	Main Bearing Set	(1)	224-41198	Oil Pump
(1)	E-178K	Premium Piston Ring Set	(1)	260-1167	Gasket Kit	(1)	1781M	Camshaft Bearing Set	(4)	525P	Cast Piston
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	7295MA	Main Bearing Set	(1)	KC-1230	Cam & Lifter Kit	<b>MKP-859A</b>		
(1)	260-1154	Gasket Kit	(1)	1493M	Camshaft Bearing Set	(1)	221-2764S	Timing Gear Set	(1)	E-450K	Premium Piston Ring Set
(1)	5024MA	Main Bearing Set	(1)	KC-748	Cam & Lifter Kit	(1)	224-41124	Oil Pump	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	1484M	Camshaft Bearing Set	(1)	KT3-365SA	Timing Set - 3 Pc.	(6)	H519P	Cast Piston	(1)	260-1192	Gasket Kit
(1)	KC-645	Cam & Lifter Kit	(1)	224-51162	Oil Pump Repair Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	6676M	Main Bearing Set
(1)	KT3-361S	Timing Set - 3 Pc.	(6)	490P .50MM	Cast Piston	<b>MKP-768A</b>			(1)	1244M	Camshaft Bearing Set
(1)	224-4166	Oil Pump	(1)	381-8053	Brass Expansion Plug Kit	(1)	E-296K	Premium Piston Ring Set	(1)	KC-779	Cam & Lifter Kit
(8)	285NP	Cast Piston	<b>MKP-760A</b>			(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	KT3-3SR64S	Timing Set - 3 Pc.
(1)	381-8010	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	260-1177	Gasket Kit	(1)	224-41198	Oil Pump
<b>MKP-746C</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	4907M	Main Bearing Set	(4)	525P	Cast Piston
(1)	E-425KC 1.00MM	Premium Piston Ring Set	(1)	260-1169	Gasket Kit	(1)	1414M	Camshaft Bearing Set	<b>MKP-860A</b>		
(1)	4-66675P	Connecting Rod Bearing Set	(1)	4125MA	Main Bearing Set	(1)	KC-648	Cam & Lifter Kit	(1)	E-222K	Premium Piston Ring Set
(1)	260-1156	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	6618M	Main Bearing Set	(1)	KC-668	Cam & Lifter Kit	(1)	224-41144	Oil Pump	(1)	260-1193	Gasket Kit
(1)	CS-769	Camshaft	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	H418P	Cast Piston	(1)	4289M	Main Bearing Set
(1)	KT-1014S	Timing Set	(1)	224-41118	Oil Pump	(1)	381-8018	Brass Expansion Plug Kit	(1)	1244M	Camshaft Bearing Set
(1)	KT-1013S	Timing Set - Complete	(8)	273AP	Cast Piston	<b>MKP-774A</b>			(1)	KC-713	Cam & Lifter Kit
(1)	224-41914	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	KT3-494S	Timing Set - 3 Pc.
(4)	H589P .50MM	Cast Piston	<b>MKP-761A</b>			(1)	8-3380A	Connecting Rod Bearing Set	(1)	224-41198	Oil Pump
(1)	381-8051	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	260-1189	Gasket Kit	(6)	470NP	Cast Piston
<b>MKP-747C</b>			(1)	8-3380A	Connecting Rod Bearing Set	(1)	5107M	Main Bearing Set	(1)	381-8000	Brass Expansion Plug Kit
(1)	E-439KC	Premium Piston Ring Set	(1)	260-1170	Gasket Kit	(1)	1204M	Camshaft Bearing Set	<b>MKP-860C</b>		
(1)	4-66675P	Connecting Rod Bearing Set	(1)	5078MA	Main Bearing Set	(1)	KC-674	Cam & Lifter Kit	(1)	E-222K	Premium Piston Ring Set
(1)	260-1156	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	6618M	Main Bearing Set	(1)	KC-674	Cam & Lifter Kit	(1)	224-41143	Oil Pump	(1)	260-1193	Gasket Kit
(1)	CS-769	Camshaft	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	416P	Cast Piston	(1)	4289M	Main Bearing Set
(1)	KT-1014S	Timing Set	(1)	224-41143	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	1244M	Camshaft Bearing Set
(1)	KT-1013S	Timing Set - Complete	(8)	463P	Cast Piston	<b>MKP-774C</b>			(1)	KC-713	Cam & Lifter Kit
(1)	224-41914	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	KT3-494S	Timing Set - 3 Pc.
(4)	12220P .75MM	Cast Piston	<b>MKP-761C</b>			(1)	8-3380A	Connecting Rod Bearing Set	(1)	224-41198	Oil Pump
(1)	381-8051	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	260-1189	Gasket Kit	(6)	470NP	Cast Piston
<b>MKP-752A</b>			(1)	8-3380A	Connecting Rod Bearing Set	(1)	5078MA	Main Bearing Set	(1)	381-8000	Brass Expansion Plug Kit
(1)	E-352K	Premium Piston Ring Set	(1)	260-1170	Gasket Kit	(1)	1204M	Camshaft Bearing Set	<b>MKP-868C</b>		
(1)	4-3545A	Connecting Rod Bearing Set	(1)	5078MA	Main Bearing Set	(1)	KC-674	Cam & Lifter Kit	(1)	E-453K	Premium Piston Ring Set
(1)	260-1161	Gasket Kit	(1)	1204M	Camshaft Bearing Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	4979M	Main Bearing Set	(1)	KC-764	Cam & Lifter Kit	(1)	224-41143	Oil Pump	(1)	260-1276	Gasket Kit
(1)	1443M	Camshaft Bearing Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	(8)	463P	Cast Piston	(1)	6678MA	Main Bearing Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	224-41143	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	KC-666C	Cam, Lifter & Follower Kit	(8)	463P	Cast Piston	<b>MKP-774C</b>			(1)	KC-775C	Cam, Lifter & Follower Kit
(1)	222-14	Timing Belt	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(1)	222-71	Timing Belt
(1)	224-41160	Oil Pump	<b>MKP-761D</b>			(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump
(4)	H435P	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	260-1091	Gasket Kit	(4)	533P	Cast Piston
(1)	381-8029	Brass Expansion Plug Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	7148M	Main Bearing Set	(1)	381-8050	Brass Expansion Plug Kit
<b>MKP-753A</b>			(1)	260-1170	Gasket Kit	(1)	67332AF	Thrust Washer Set	<b>MKP-869C</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	5078MA	Main Bearing Set	(1)	CS-719	Camshaft	(1)	E-454K	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	KT-1019S	Timing Set - Complete	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1162	Gasket Kit	(1)	KC-764	Cam & Lifter Kit	(1)	224-41902	Oil Pump	(1)	260-1093	Gasket Kit
(1)	4979M	Main Bearing Set	(1)	KT3-163SA	Timing Set - 3 Pc.	(4)	12326P	Cast Piston	(1)	6678MA	Main Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	224-41143	Oil Pump	(1)	381-8042	Brass Expansion Plug Kit	(1)	1487M	Auxiliary Shaft Bearing Set
(1)	1460M	Auxiliary Shaft Bearing Set	(8)	463P	Cast Piston	<b>MKP-830C</b>			(1)	KC-785C	Cam, Lifter & Follower Kit
(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	E-416KC	Premium Piston Ring Set	(1)	222-71	Timing Belt
(1)	222-14	Timing Belt	<b>MKP-763A</b>			(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	224-4168	Oil Pump
(1)	224-41127	Oil Pump	(1)	E-352K	Premium Piston Ring Set	(1)	260-1091	Gasket Kit	(4)	527P	Cast Piston
(4)	H537P	Cast Piston	(1)	4-3545A	Connecting Rod Bearing Set	(1)	7148M	Main Bearing Set	(1)	381-8050	Brass Expansion Plug Kit
(1)	381-8029	Brass Expansion Plug Kit	(1)	260-1172	Gasket Kit	(1)	67332AF	Thrust Washer Set	<b>MKP-854A</b>		
						(1)	CS-719	Camshaft	(1)	E-416KC	Premium Piston Ring Set
						(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	260-1188	Gasket Kit
						(1)	260-1188	Gasket Kit	(1)	7148M	Main Bearing Set
						(1)	67332AF	Thrust Washer Set	(1)	67332AF	Thrust Washer Set
						(1)	CS-719	Camshaft	(1)	CS-719	Camshaft

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>MKP-878A</b>			<b>MKP-883A</b>			<b>PK2-2743B</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(6)	2743PN	Cast Piston
(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(6)	E-623KC	Premium Piston Ring Set
(1)	260-1206	Gasket Kit	(1)	260-1208	Gasket Kit	(6)	4205CP	Connecting Rod Bearing Pair
(1)	4979M	Main Bearing Set	(1)	5130M	Main Bearing Set	(1)	7216M	Main Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	<b>205-1002</b>		
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-788	Cam & Lifter Kit	(1)	E-458X	Standard Piston Ring Set
(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	8-2600A	Connecting Rod Bearing Set
(1)	222-14	Timing Belt	(1)	224-41100	Oil Pump	(1)	260-1169	Gasket Kit
(1)	224-41127	Oil Pump	(4)	489P	Cast Piston	<b>205-1002M</b>		
(4)	H537P	Cast Piston	<b>MKP-886A</b>			(1)	E-458X	Standard Piston Ring Set
(1)	381-8029	Brass Expansion Plug Kit	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
<b>MKP-878C</b>			(1)	260-1211	Gasket Kit	(1)	260-1169	Gasket Kit
(1)	E-442KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set	(1)	4125MA	Main Bearing Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	1493M	Camshaft Bearing Set	<b>205-1003</b>		
(1)	260-1206	Gasket Kit	(1)	KC-748	Cam & Lifter Kit	(1)	E-296X	Standard Piston Ring Set
(1)	4979M	Main Bearing Set	(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	1443M	Camshaft Bearing Set	(1)	224-51162	Oil Pump Repair Kit	(1)	260-1223	Gasket Kit
(1)	1460M	Auxiliary Shaft Bearing Set	(6)	490P .50MM	Cast Piston	<b>205-1003M</b>		
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	E-296X	Standard Piston Ring Set
(1)	222-14	Timing Belt	<b>MKP-888A</b>			(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	224-41160V	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	260-1223	Gasket Kit
(4)	H537P	Cast Piston	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4907M	Main Bearing Set
(1)	381-8029	Brass Expansion Plug Kit	(1)	260-1213A	Gasket Kit	<b>205-1007</b>		
<b>MKP-879A</b>			(1)	4125MA	Main Bearing Set	(1)	E-384X	Standard Piston Ring Set
(1)	E-441K	Premium Piston Ring Set	(1)	1204M	Camshaft Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	KC-761	Cam & Lifter Kit	(1)	260-1228	Gasket Kit
(1)	260-1206	Gasket Kit	(1)	KT3-163SA	Timing Set - 3 Pc.	<b>205-1007M</b>		
(1)	4979M	Main Bearing Set	(1)	224-41118	Oil Pump	(1)	E-384X	Standard Piston Ring Set
(1)	1443M	Camshaft Bearing Set	(8)	H273CP	Cast Piston	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1228	Gasket Kit
(1)	KC-767C	Cam, Lifter & Follower Kit	<b>MKP-891A</b>			<b>205-1008</b>		
(1)	222-14	Timing Belt	(1)	E-476K	Premium Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	224-41160V	Oil Pump	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(4)	L-2500F .50MM	Power Forged Piston	(1)	260-1214	Gasket Kit	(1)	260-1228	Gasket Kit
(1)	381-8029	Brass Expansion Plug Kit	(1)	4979M	Main Bearing Set	(1)	6689MA	Main Bearing Set
<b>MKP-879C</b>			(1)	1443M	Camshaft Bearing Set	<b>205-1008M</b>		
(1)	E-441K	Premium Piston Ring Set	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	E-384X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1206	Gasket Kit	(1)	222-14	Timing Belt	(1)	260-1229	Gasket Kit
(1)	4979M	Main Bearing Set	(1)	224-41160	Oil Pump	<b>205-1009</b>		
(1)	1443M	Camshaft Bearing Set	(4)	H491P	Cast Piston	(1)	E-450X	Standard Piston Ring Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	381-8029	Brass Expansion Plug Kit	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	KC-666C	Cam, Lifter & Follower Kit	<b>MKP-898A</b>			(1)	260-1230	Gasket Kit
(1)	222-14	Timing Belt	(1)	E-481K	Premium Piston Ring Set	<b>205-1009M</b>		
(1)	224-41160V	Oil Pump	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	E-450X	Standard Piston Ring Set
(4)	L-2500F .50MM	Power Forged Piston	(1)	260-1220	Gasket Kit	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	381-8029	Brass Expansion Plug Kit	(1)	6101MA	Main Bearing Set	(1)	260-1230	Gasket Kit
<b>MKP-880A</b>			(1)	1838M	Camshaft Bearing Set	(1)	4123MA	Main Bearing Set
(1)	E-441K	Premium Piston Ring Set	(1)	KC-814	Cam & Lifter Kit	<b>205-101</b>		
(1)	4-3545A	Connecting Rod Bearing Set	(1)	KT3-60S	Timing Set - 3 Pc.	(1)	E-180X	Standard Piston Ring Set
(1)	260-1162	Gasket Kit	(1)	224-43431	Oil Pump	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	4979M	Main Bearing Set	(6)	520P	Cast Piston	(1)	260-1035	Gasket Kit
(1)	1443M	Camshaft Bearing Set	(1)	381-8064	Brass Expansion Plug Kit	<b>205-101M</b>		
(1)	1460M	Auxiliary Shaft Bearing Set	<b>MKP-898C</b>			(1)	E-180X	Standard Piston Ring Set
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	E-481K	Premium Piston Ring Set	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	222-14	Timing Belt	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1035	Gasket Kit
(1)	224-41160V	Oil Pump	(1)	260-1220	Gasket Kit	<b>205-101M</b>		
(4)	L-2500F .50MM	Power Forged Piston	(1)	7245MA	Main Bearing Set	(1)	E-180X	Standard Piston Ring Set
(1)	381-8029	Brass Expansion Plug Kit	(1)	1838M	Camshaft Bearing Set	(1)	8-3230CP	Connecting Rod Bearing Set
<b>MKP-882A</b>			(1)	KC-814	Cam & Lifter Kit	(1)	260-1035	Gasket Kit
(1)	E-465K	Premium Piston Ring Set	(1)	KT3-60S	Timing Set - 3 Pc.	<b>205-101M</b>		
(1)	4-2380CP	Connecting Rod Bearing Set	(1)	224-43431	Oil Pump	(1)	E-180X	Standard Piston Ring Set
(1)	260-1208	Gasket Kit	(6)	520P	Cast Piston	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	5130M	Main Bearing Set	(1)	381-8064	Brass Expansion Plug Kit	(1)	260-1035	Gasket Kit
(1)	1494M	Camshaft Bearing Set	<b>PK1-2743B</b>			(1)	4261M	Main Bearing Set
(1)	KC-788	Cam & Lifter Kit	(6)	2743PN	Cast Piston	(1)	E-180X	Standard Piston Ring Set
(1)	KT3-505S	Timing Set - 3 Pc.	(6)	E-623KC	Premium Piston Ring Set	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	224-41100	Oil Pump				(1)	260-1035	Gasket Kit
(4)	489P	Cast Piston				(1)	4261M	Main Bearing Set
						<b>205-1010</b>		
(1)	E-450X	Standard Piston Ring Set				(1)	E-450X	Standard Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set				(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1231	Gasket Kit				(1)	260-1231	Gasket Kit
						<b>205-1010M</b>		
(1)	E-450X	Standard Piston Ring Set				(1)	E-450X	Standard Piston Ring Set
(1)	4-2020CP	Connecting Rod Bearing Set				(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1231	Gasket Kit				(1)	260-1231	Gasket Kit
(1)	4123MA	Main Bearing Set				(1)	4123MA	Main Bearing Set
						<b>205-1015</b>		
(1)	E-369X	Standard Piston Ring Set				(1)	E-369X	Standard Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set				(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1236	Gasket Kit				(1)	260-1236	Gasket Kit
						<b>205-1015M</b>		
(1)	E-369X	Standard Piston Ring Set				(1)	E-369X	Standard Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set				(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1236	Gasket Kit				(1)	260-1236	Gasket Kit
(1)	7144MA	Main Bearing Set				(1)	7144MA	Main Bearing Set
						<b>205-1016</b>		
(1)	E-197X	Standard Piston Ring Set				(1)	E-197X	Standard Piston Ring Set
(6)	3755A	Connecting Rod Bearing Pair				(6)	3755A	Connecting Rod Bearing Pair
(1)	260-1032	Gasket Kit				(1)	260-1032	Gasket Kit
						<b>205-1019</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1239	Gasket Kit				(1)	260-1239	Gasket Kit
						<b>205-1019M</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1239	Gasket Kit				(1)	260-1239	Gasket Kit
(1)	5085MA	Main Bearing Set				(1)	5085MA	Main Bearing Set
						<b>205-102</b>		
(1)	E-196X	Standard Piston Ring Set				(1)	E-196X	Standard Piston Ring Set
(1)	6-2375CP	Connecting Rod Bearing Set				(1)	6-2375CP	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit				(1)	260-1004	Gasket Kit
						<b>205-102M</b>		
(1)	E-196X	Standard Piston Ring Set				(1)	E-196X	Standard Piston Ring Set
(1)	6-2375CP	Connecting Rod Bearing Set				(1)	6-2375CP	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit				(1)	260-1004	Gasket Kit
(1)	4092M	Main Bearing Set				(1)	4092M	Main Bearing Set
						<b>205-1020</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit				(1)	260-1240	Gasket Kit
						<b>205-1020M</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit				(1)	260-1240	Gasket Kit
(1)	5085MA	Main Bearing Set				(1)	5085MA	Main Bearing Set
						<b>205-1021</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit				(1)	260-1241	Gasket Kit
						<b>205-1021M</b>		
(1)	E-459X	Standard Piston Ring Set				(1)	E-459X	Standard Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set				(1)	6-1020A	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit				(1)	260-1241	Gasket Kit
(1)	5085MA	Main Bearing Set				(1)	5085MA	Main Bearing Set

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	<b>205-1024</b>			<b>205-104</b>			<b>205-1086M</b> (cont'd.)			<b>205-1098</b>	
(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	E-536X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	260-1418	Gasket Kit	(1)	6-1460A	Connecting Rod Bearing Set
(1)	260-1243	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	4400MA	Main Bearing Set	(1)	260-1428	Gasket Kit
	<b>205-1026</b>			<b>205-104M</b>			<b>205-1087</b>			<b>205-1098M</b>	
(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-536X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set
(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1420	Gasket Kit	(1)	260-1428	Gasket Kit
	<b>205-1026M</b>			<b>205-1049</b>			<b>205-1087M</b>			<b>205-1099</b>	
(1)	E-356X	Standard Piston Ring Set	(1)	E-473X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-536X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-66780CP	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set
(1)	260-1246	Gasket Kit	(1)	260-1279	Gasket Kit	(1)	260-1420	Gasket Kit	(1)	260-1429	Gasket Kit
(1)	4663MA	Main Bearing Set				(1)	4916M	Main Bearing Set			
	<b>205-1027</b>			<b>205-105</b>			<b>205-109</b>			<b>205-1099M</b>	
(1)	E-356X	Standard Piston Ring Set	(1)	E-197X	Standard Piston Ring Set	(1)	E-219X	Standard Piston Ring Set	(1)	E-536X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set
(1)	260-1247	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1003	Gasket Kit	(1)	260-1429	Gasket Kit
	<b>205-1027M</b>			<b>205-1057</b>			<b>205-109M</b>			<b>205-110</b>	
(1)	E-356X	Standard Piston Ring Set	(1)	E-489X	Standard Piston Ring Set	(1)	E-219X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-3925P	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1247	Gasket Kit	(1)	260-1286	Gasket Kit	(1)	260-1003	Gasket Kit	(1)	260-1007	Gasket Kit
(1)	4663MA	Main Bearing Set				(1)	4916M	Main Bearing Set			
	<b>205-103</b>			<b>205-1058</b>			<b>205-1092</b>			<b>205-110M</b>	
(1)	E-196X	Standard Piston Ring Set	(1)	E-489X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set
(1)	6-3695RA	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1286	Gasket Kit	(1)	260-1424	Gasket Kit	(1)	260-1007	Gasket Kit
	<b>205-103M</b>			<b>205-1066</b>			<b>205-1092M</b>			<b>205-1100</b>	
(1)	E-196X	Standard Piston Ring Set	(1)	E-393X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-67035P	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1294	Gasket Kit	(1)	260-1424	Gasket Kit	(1)	260-1007	Gasket Kit
(1)	5070M	Main Bearing Set				(1)	4289M	Main Bearing Set	(1)	4289M	Main Bearing Set
	<b>205-1036</b>			<b>205-108A</b>			<b>205-1093</b>			<b>205-1100M</b>	
(1)	E-217X	Standard Piston Ring Set	(1)	E-219X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1267	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1425	Gasket Kit	(1)	260-1430	Gasket Kit
(1)	260-1267	Gasket Kit							(1)	5095MA	Main Bearing Set
	<b>205-1036M</b>			<b>205-108AM</b>			<b>205-1093M</b>			<b>205-1102</b>	
(1)	E-217X	Standard Piston Ring Set	(1)	E-219X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-528X	Standard Piston Ring Set
(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set
(1)	260-1267	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1425	Gasket Kit	(1)	260-1432	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	5071M	Main Bearing Set	(1)	6678MA	Main Bearing Set	(1)	260-1432	Gasket Kit
	<b>205-1037</b>			<b>205-108M</b>			<b>205-1095</b>			<b>205-1102M</b>	
(1)	E-251X	Standard Piston Ring Set	(1)	E-219X	Standard Piston Ring Set	(1)	E-516X	Standard Piston Ring Set	(1)	E-528X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	4-3955RA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set
(1)	260-1268	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1194	Gasket Kit	(1)	260-1432	Gasket Kit
	<b>205-1037M</b>			<b>205-1083</b>			<b>205-1095M</b>			<b>205-1103</b>	
(1)	E-251X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-516X	Standard Piston Ring Set	(1)	E-470X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-3955RA	Connecting Rod Bearing Set	(1)	4-1400AA	Connecting Rod Bearing Set
(1)	260-1268	Gasket Kit	(1)	260-1032	Gasket Kit	(1)	260-1194	Gasket Kit	(1)	260-1205	Gasket Kit
(1)	4663MA	Main Bearing Set				(1)	6630M	Main Bearing Set			
	<b>205-1038</b>			<b>205-1083M</b>			<b>205-1097</b>			<b>205-1103M</b>	
(1)	E-251X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-470X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-1400AA	Connecting Rod Bearing Set
(1)	260-1269	Gasket Kit	(1)	260-1032	Gasket Kit	(1)	260-1427	Gasket Kit	(1)	260-1205	Gasket Kit
	<b>205-1038M</b>			<b>205-1086</b>			<b>205-1097M</b>			<b>205-1105</b>	
(1)	E-251X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-442X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1269	Gasket Kit	(1)	260-1418	Gasket Kit	(1)	260-1427	Gasket Kit	(1)	260-1434	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	<b>205-1086M</b>	Standard Piston Ring Set (cont'd. next column)	(1)	260-1427	Gasket Kit			
						(1)	6678MA	Main Bearing Set			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-1105M</b>			<b>205-1113C</b>			<b>205-112M</b>			<b>205-1131</b>		
(1)	E-442X	Standard Piston Ring Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-531X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1434	Gasket Kit	(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	260-1227	Gasket Kit
(1)	4979M	Main Bearing Set	<b>205-1113M</b>			<b>205-1120</b>			<b>205-1131M</b>		
<b>205-1106</b>			(1)	E-471X	Standard Piston Ring Set	(1)	E-446X	Standard Piston Ring Set	(1)	E-531X	Standard Piston Ring Set
(1)	E-465X	Standard Piston Ring Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1443	Gasket Kit	(1)	260-1222	Gasket Kit	(1)	260-1227	Gasket Kit
(1)	260-1436	Gasket Kit	(1)	7295MA	Main Bearing Set	(1)	7047MA	Main Bearing Set	<b>205-1132</b>		
<b>205-1106M</b>			<b>205-1114</b>			<b>205-1120M</b>			<b>205-1132</b>		
(1)	E-465X	Standard Piston Ring Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-446X	Standard Piston Ring Set	(1)	E-535X	Standard Piston Ring Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-1540A	Connecting Rod Bearing Set
(1)	260-1436	Gasket Kit	(1)	260-1444	Gasket Kit	(1)	260-1222	Gasket Kit	(1)	260-1460	Gasket Kit
(1)	5130M	Main Bearing Set	<b>205-1114M</b>			<b>205-1121</b>			<b>205-1132M</b>		
<b>205-1107</b>			(1)	E-471X	Standard Piston Ring Set	(1)	E-458X	Standard Piston Ring Set	(1)	E-535X	Standard Piston Ring Set
(1)	E-465X	Standard Piston Ring Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-1540A	Connecting Rod Bearing Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1444	Gasket Kit	(1)	260-1451	Gasket Kit	(1)	260-1460	Gasket Kit
(1)	260-1437	Gasket Kit	(1)	7295MA	Main Bearing Set	(1)	4125MA	Main Bearing Set	(1)	7054MA	Main Bearing Set
<b>205-1107M</b>			<b>205-1115</b>			<b>205-1121M</b>			<b>205-1134</b>		
(1)	E-465X	Standard Piston Ring Set	(1)	E-458X	Standard Piston Ring Set	(1)	E-458X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1437	Gasket Kit	(1)	260-1445	Gasket Kit	(1)	260-1451	Gasket Kit	(1)	260-1464	Gasket Kit
(1)	5130M	Main Bearing Set	<b>205-1115M</b>			<b>205-1123</b>			<b>205-1134M</b>		
<b>205-1108</b>			(1)	E-458X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	E-465X	Standard Piston Ring Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1445	Gasket Kit	(1)	260-1452	Gasket Kit	(1)	260-1464	Gasket Kit
(1)	260-1438	Gasket Kit	(1)	4125MA	Main Bearing Set	(1)	260-1452	Gasket Kit	(1)	6689MA	Main Bearing Set
<b>205-1108M</b>			<b>205-1116</b>			<b>205-1123M</b>			<b>205-1135</b>		
(1)	E-465X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1438	Gasket Kit	(1)	260-1446	Gasket Kit	(1)	260-1452	Gasket Kit	(1)	260-1462	Gasket Kit
(1)	5130M	Main Bearing Set	<b>205-1116M</b>			<b>205-1124</b>			<b>205-1135M</b>		
<b>205-1110</b>			(1)	E-251X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	E-446X	Standard Piston Ring Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	260-1446	Gasket Kit	(1)	260-1453	Gasket Kit	(1)	260-1462	Gasket Kit
(1)	260-1210	Gasket Kit	(1)	5078MA	Main Bearing Set	(1)	260-1453	Gasket Kit	(1)	6690MA	Main Bearing Set
<b>205-1110M</b>			<b>205-1118</b>			<b>205-1124M</b>			<b>205-1136</b>		
(1)	E-446X	Standard Piston Ring Set	(1)	E-442X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair
(1)	260-1210	Gasket Kit	(1)	260-1447	Gasket Kit	(1)	260-1453	Gasket Kit	(1)	260-1463	Gasket Kit
(1)	7011MA	Main Bearing Set	<b>205-1118M</b>			<b>205-113</b>			<b>205-1136M</b>		
<b>205-1111</b>			(1)	E-442X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set
(1)	E-471X	Standard Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1447	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1463	Gasket Kit
(1)	260-1441	Gasket Kit	(1)	4979M	Main Bearing Set	(1)	260-1009	Gasket Kit	(1)	6690MA	Main Bearing Set
<b>205-1111M</b>			<b>205-1119</b>			<b>205-113M</b>			<b>205-1138</b>		
(1)	E-471X	Standard Piston Ring Set	(1)	E-442X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1441	Gasket Kit	(1)	260-1448	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1465	Gasket Kit
(1)	7295MA	Main Bearing Set	<b>205-1119M</b>			<b>205-1130</b>			<b>205-1138M</b>		
<b>205-1112</b>			(1)	E-442X	Standard Piston Ring Set	(1)	E-539X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	E-471X	Standard Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-1490CPA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1448	Gasket Kit	(1)	260-1459	Gasket Kit	(1)	260-1465	Gasket Kit
(1)	260-1442	Gasket Kit	(1)	7291MA	Main Bearing Set	(1)	7144MA	Main Bearing Set	<b>205-114</b>		
<b>205-1112M</b>			<b>205-112</b>			<b>205-1130M</b>			<b>205-114</b>		
(1)	E-471X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-539X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set
(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4-1490CPA	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1442	Gasket Kit	(1)	260-1006	Gasket Kit	(1)	260-1459	Gasket Kit	(1)	260-1005	Gasket Kit
(1)	7295MA	Main Bearing Set				(1)	7108M	Main Bearing Set			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-114M</b>			<b>205-1155</b>			<b>205-1184M</b>			<b>205-122A</b>		
(1)	E-234X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1005	Gasket Kit	(1)	260-1482	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1033	Gasket Kit
(1)	4124MA	Main Bearing Set	<b>205-1155M</b>			<b>205-1186</b>			<b>205-122AM</b>		
<b>205-1141</b>			(1)	E-384X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	E-532X	Standard Piston Ring Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	E-476X	Standard Piston Ring Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	260-1482	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1033	Gasket Kit
(1)	260-1469	Gasket Kit	(1)	6689MA	Main Bearing Set	(1)	260-1526	Gasket Kit	(1)	4999MA	Main Bearing Set
<b>205-1141M</b>			<b>205-1156</b>			<b>205-1186M</b>			<b>205-122M</b>		
(1)	E-532X	Standard Piston Ring Set	(1)	E-377X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1469	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1526	Gasket Kit	(1)	260-1033	Gasket Kit
(1)	7144MA	Main Bearing Set	<b>205-1156M</b>			(1)	4979M	Main Bearing Set	(1)	4948MA	Main Bearing Set
<b>205-1148</b>			(1)	E-377X	Standard Piston Ring Set	<b>205-119</b>			<b>205-124</b>		
(1)	E-288X	Standard Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-245X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	260-1269	Gasket Kit	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-3400CP	Connecting Rod Bearing Set
(1)	260-1477	Gasket Kit	(1)	4663MA	Main Bearing Set	(1)	260-1000	Gasket Kit	(1)	260-1014	Gasket Kit
<b>205-1148M</b>			<b>205-116</b>			<b>205-119M</b>			<b>205-124AM</b>		
(1)	E-288X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-245X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-3045A	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-3400CP	Connecting Rod Bearing Set
(1)	260-1477	Gasket Kit	(1)	260-1037	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1014	Gasket Kit
(1)	4281M	Main Bearing Set	<b>205-116M</b>			(1)	994M	Main Bearing Set	(1)	5078MA	Main Bearing Set
<b>205-1149</b>			(1)	E-234X	Standard Piston Ring Set	<b>205-1205</b>			<b>205-124M</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	260-1037	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-3400CP	Connecting Rod Bearing Set
(1)	260-1479	Gasket Kit	(1)	4124MA	Main Bearing Set	(1)	260-1616	Gasket Kit	(1)	260-1014	Gasket Kit
<b>205-1149M</b>			<b>205-1167</b>			<b>205-1205M</b>			<b>205-124M</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-473X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-66780CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-3400CP	Connecting Rod Bearing Set
(1)	260-1479	Gasket Kit	(1)	260-1490	Gasket Kit	(1)	260-1616	Gasket Kit	(1)	260-1014	Gasket Kit
(1)	4663MA	Main Bearing Set	<b>205-117</b>			(1)	6678MA	Main Bearing Set	(1)	5107M	Main Bearing Set
<b>205-115</b>			(1)	E-240X	Standard Piston Ring Set	<b>205-121</b>			<b>205-125</b>		
(1)	E-234X	Standard Piston Ring Set	(1)	8-3310CPA	Connecting Rod Bearing Set	(1)	E-245X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	260-1010	Gasket Kit	(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1019	Gasket Kit	<b>205-1177</b>			(1)	260-1025	Gasket Kit	(1)	260-1028	Gasket Kit
<b>205-115M</b>			(1)	E-511X	Standard Piston Ring Set	<b>205-1212</b>			<b>205-125M</b>		
(1)	E-234X	Standard Piston Ring Set	(1)	4-1610CP	Connecting Rod Bearing Set	(1)	E-446X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	260-1499	Gasket Kit	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1019	Gasket Kit	<b>205-1177M</b>			(1)	260-1556	Gasket Kit	(1)	260-1028	Gasket Kit
(1)	4124MA	Main Bearing Set	(1)	E-511X	Standard Piston Ring Set	<b>205-1212M</b>			(1)	5107M	Main Bearing Set
<b>205-1151</b>			(1)	4-1610CP	Connecting Rod Bearing Set	(1)	E-446X	Standard Piston Ring Set	<b>205-1262M</b>		
(1)	E-377X	Standard Piston Ring Set	(1)	260-1499	Gasket Kit	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	E-481X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	7116MA	Main Bearing Set	(1)	260-1556	Gasket Kit	(1)	6-3055CP	Connecting Rod Bearing Set
(1)	260-1478	Gasket Kit	<b>205-1182</b>			(1)	7011MA	Main Bearing Set	(1)	260-1220	Gasket Kit
<b>205-1151M</b>			(1)	E-510X	Standard Piston Ring Set	<b>205-1215</b>			(1)	7245MA	Main Bearing Set
(1)	E-377X	Standard Piston Ring Set	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	E-458X	Standard Piston Ring Set	<b>205-1265</b>		
(1)	8-2555A	Connecting Rod Bearing Set	(1)	260-1503	Gasket Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	E-217X	Standard Piston Ring Set
(1)	260-1478	Gasket Kit	<b>205-1182M</b>			(1)	260-1559	Gasket Kit	(1)	6-2555A	Connecting Rod Bearing Set
(1)	4663MA	Main Bearing Set	(1)	E-510X	Standard Piston Ring Set	<b>205-1219</b>			(1)	260-1005	Gasket Kit
<b>205-1153</b>			(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	E-384X	Standard Piston Ring Set	<b>205-1265M</b>		
(1)	E-377X	Standard Piston Ring Set	(1)	260-1503	Gasket Kit	(1)	2500RAA	Connecting Rod Bearing Pair	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	7148M	Main Bearing Set	(1)	260-1563	Gasket Kit	(1)	6-2555A	Connecting Rod Bearing Set
(1)	260-1268	Gasket Kit	(1)	67333AF	Thrust Washer Set	<b>205-1219M</b>			(1)	4124MA	Main Bearing Set
<b>205-1153M</b>			<b>205-1184</b>			(1)	E-384X	Standard Piston Ring Set	<b>205-1266</b>		
(1)	E-377X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	2500RAA	Connecting Rod Bearing Pair	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	260-1563	Gasket Kit	(6)	2555A	Connecting Rod Bearing Pair
(1)	260-1268	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	6689MA	Main Bearing Set	(1)	260-1044	Gasket Kit
(1)	4663MA	Main Bearing Set	<b>205-1184</b>			<b>205-1219M</b>			<b>205-1266M</b>		
<b>205-1153M</b>			(1)	E-605X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	2500RAA	Connecting Rod Bearing Pair	(6)	2555A	Connecting Rod Bearing Pair
(1)	260-1268	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1563	Gasket Kit	(1)	260-1044	Gasket Kit
(1)	4663MA	Main Bearing Set	<b>205-1184</b>			<b>205-1219M</b>			<b>205-1266M</b>		
<b>205-1153M</b>			(1)	E-605X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	<b>205-1266M</b>		
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	2500RAA	Connecting Rod Bearing Pair	(1)	E-217X	Standard Piston Ring Set
(1)	260-1268	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1563	Gasket Kit	(6)	2555A	Connecting Rod Bearing Pair
(1)	4663MA	Main Bearing Set	<b>205-1184</b>			(1)	6689MA	Main Bearing Set	(1)	260-1044	Gasket Kit

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	<b>205-1266M</b> (cont'd.)			<b>205-1283</b> (cont'd.)			<b>205-1298M</b>	
(1)	4124MA	Main Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	E-432X	Standard Piston Ring Set
	<b>205-1269</b>		(1)	260-1000	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set
(1)	E-356X	Standard Piston Ring Set		<b>205-1283M</b>		(1)	260-1123	Gasket Kit
(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-245X	Standard Piston Ring Set	(1)	5090MA	Main Bearing Set
(1)	260-1244	Gasket Kit	(8)	2555A	Connecting Rod Bearing Pair		<b>205-1299</b>	
	<b>205-1269M</b>		(1)	260-1000	Gasket Kit	(1)	E-411X	Standard Piston Ring Set
(1)	E-356X	Standard Piston Ring Set	(1)	4663MA	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set		<b>205-1285</b>		(1)	260-1143	Gasket Kit
(1)	260-1244	Gasket Kit	(1)	E-356X	Standard Piston Ring Set		<b>205-130</b>	
(1)	4663MA	Main Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set
	<b>205-127A</b>		(1)	260-1023	Gasket Kit	(1)	8-2555A	Connecting Rod Bearing Set
(1)	E-251X	Standard Piston Ring Set		<b>205-1285M</b>		(1)	260-1000	Gasket Kit
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-356X	Standard Piston Ring Set		<b>205-130M</b>	
(1)	260-1126	Gasket Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set
	<b>205-127AM</b>		(1)	260-1023	Gasket Kit	(1)	8-2555A	Connecting Rod Bearing Set
(1)	E-251X	Standard Piston Ring Set	(1)	4663MA	Main Bearing Set	(1)	260-1000	Gasket Kit
(1)	8-3380A	Connecting Rod Bearing Set		<b>205-1286</b>			<b>205-1300</b>	
(1)	260-1126	Gasket Kit	(1)	E-356X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
(1)	5078MA	Main Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set
	<b>205-127M</b>		(1)	260-1024	Gasket Kit	(1)	260-1233	Gasket Kit
(1)	E-251X	Standard Piston Ring Set		<b>205-1286M</b>			<b>205-1300M</b>	
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
(1)	260-1126	Gasket Kit	(8)	2555A	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set
(1)	5107M	Main Bearing Set	(1)	260-1024	Gasket Kit	(1)	260-1233	Gasket Kit
	<b>205-127M</b>		(1)	4663MA	Main Bearing Set		<b>205-1308</b>	
(1)	E-356X	Standard Piston Ring Set		<b>205-1286</b>		(1)	E-288X	Standard Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-356X	Standard Piston Ring Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	260-1243	Gasket Kit	(8)	2555A	Connecting Rod Bearing Pair	(1)	260-1124	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	260-1024	Gasket Kit		<b>205-1308M</b>	
	<b>205-1271</b>		(1)	4663MA	Main Bearing Set	(1)	E-288X	Standard Piston Ring Set
(1)	E-356X	Standard Piston Ring Set		<b>205-1286M</b>		(8)	3045A	Connecting Rod Bearing Pair
(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-356X	Standard Piston Ring Set	(1)	260-1124	Gasket Kit
(1)	260-1245	Gasket Kit	(8)	2555A	Connecting Rod Bearing Pair		<b>205-1309</b>	
(1)	260-1479	Gasket Kit	(1)	260-1122	Gasket Kit	(1)	E-297X	Standard Piston Ring Set
	<b>205-1271M</b>		(1)	5092M	Main Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	E-356X	Standard Piston Ring Set		<b>205-129</b>		(1)	260-1022	Gasket Kit
(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set		<b>205-1309M</b>	
(1)	260-1245	Gasket Kit	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	E-297X	Standard Piston Ring Set
(1)	4663MA	Main Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
	<b>205-1276</b>		(1)	260-1122	Gasket Kit		<b>205-1310</b>	
(1)	E-251X	Standard Piston Ring Set		<b>205-129M</b>		(1)	E-297X	Standard Piston Ring Set
(8)	2555A	Connecting Rod Bearing Pair	(1)	E-251X	Standard Piston Ring Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	260-1479	Gasket Kit	(1)	8-2500RAA	Connecting Rod Bearing Set		<b>205-1310M</b>	
	<b>205-1276M</b>		(1)	260-1122	Gasket Kit	(1)	E-297X	Standard Piston Ring Set
(1)	E-251X	Standard Piston Ring Set	(1)	5092M	Main Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(8)	2555A	Connecting Rod Bearing Pair		<b>205-1296</b>		(1)	260-1022	Gasket Kit
(1)	260-1479	Gasket Kit	(1)	E-432X	Standard Piston Ring Set	(1)	4281M	Main Bearing Set
(1)	4663MA	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set		<b>205-1318</b>	
	<b>205-1282</b>		(1)	6-4020A	Connecting Rod Bearing Set	(1)	E-613X	Standard Piston Ring Set
(1)	E-243X	Standard Piston Ring Set	(1)	260-1232	Gasket Kit	(6)	3055CP	Connecting Rod Bearing Pair
(8)	2555A	Connecting Rod Bearing Pair	(1)	7242MA	Main Bearing Set	(1)	260-1652	Gasket Kit
(1)	260-1016	Gasket Kit		<b>205-1297</b>			<b>205-1318M</b>	
(1)	260-1016	Main Bearing Set	(1)	E-478X	Standard Piston Ring Set	(1)	E-297X	Standard Piston Ring Set
	<b>205-1282M</b>		(1)	6-4020A	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	E-243X	Standard Piston Ring Set	(1)	260-1233	Gasket Kit		<b>205-1320</b>	
(8)	2555A	Connecting Rod Bearing Pair	(1)	7242MA	Main Bearing Set	(1)	E-475X	Standard Piston Ring Set
(1)	260-1016	Gasket Kit		<b>205-1297M</b>		(1)	4-3570CPB	Connecting Rod Bearing Set
(1)	4926MA	Main Bearing Set	(1)	E-478X	Standard Piston Ring Set	(1)	260-1090	Gasket Kit
	<b>205-1283</b>		(1)	6-4020A	Connecting Rod Bearing Set	(1)	6631M	Main Bearing Set
(1)	E-245X	Standard Piston Ring Set (cont'd. next column)	(1)	260-1233	Gasket Kit	(1)	3571BF	Thrust Washer Set
			(1)	7242MA	Main Bearing Set		<b>205-1320M</b>	
				<b>205-1298</b>		(1)	E-475X	Standard Piston Ring Set
			(1)	E-432X	Standard Piston Ring Set	(1)	4-3570CPB	Connecting Rod Bearing Set
			(1)	6-4020A	Connecting Rod Bearing Set	(1)	260-1090	Gasket Kit
			(1)	260-1123	Gasket Kit	(1)	6631M	Main Bearing Set
				<b>205-1298M</b>		(1)	3571BF	Thrust Washer Set
			(1)	E-288X	Standard Piston Ring Set		<b>205-1320AM</b>	
			(8)	3045A	Connecting Rod Bearing Pair	(1)	E-475X	Standard Piston Ring Set
			(1)	260-1124	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set
				<b>205-1298M</b>		(1)	260-1090	Gasket Kit
			(1)	E-288X	Standard Piston Ring Set	(1)	6631M	Main Bearing Set
			(8)	3045A	Connecting Rod Bearing Pair	(1)	3571BF	Thrust Washer Set
			(1)	260-1124	Gasket Kit		<b>205-1320M</b>	
				<b>205-1299</b>		(1)	E-475X	Standard Piston Ring Set
			(1)	E-411X	Standard Piston Ring Set	(1)	4-3570CPB	Connecting Rod Bearing Set
			(1)	6-4020A	Connecting Rod Bearing Set	(1)	260-1090	Gasket Kit
			(1)	260-1143	Gasket Kit	(1)	6631M	Main Bearing Set
				<b>205-130</b>		(1)	3571BF	Thrust Washer Set
			(1)	E-251X	Standard Piston Ring Set		<b>205-1320M</b>	
			(1)	8-2555A	Connecting Rod Bearing Set	(1)	E-475X	Standard Piston Ring Set
			(1)	260-1000	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set
				<b>205-130M</b>		(1)	260-1090	Gasket Kit
			(1)	E-251X	Standard Piston Ring Set	(1)	6631M	Main Bearing Set
			(1)	8-2555A	Connecting Rod Bearing Set	(1)	3571BF	Thrust Washer Set
			(1)	260-1000	Gasket Kit		<b>205-1320M</b>	
				<b>205-1300</b>		(1)	E-475X	Standard Piston Ring Set
			(1)	E-605X	Standard Piston Ring Set	(1)	4-3570CPB	Connecting Rod Bearing Set
			(1)	6-4020A	Connecting Rod Bearing Set	(1)	260-1090	Gasket Kit
			(1)	260-1233	Gasket Kit	(1)	6631M	Main Bearing Set
				<b>205-1300M</b>		(1)	3571BF	Thrust Washer Set
			(1)	E-605X	Standard Piston Ring Set		<b>205-1320M</b>	
			(1)	6-4020A	Connecting Rod Bearing Set	(1)	E-475X	Standard Piston Ring Set
			(1)	260-1233	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set
				<b>205-1308</b>		(1)	260-1090	Gasket Kit
			(1)	E-288X	Standard Piston Ring Set	(1)	6631M	Main Bearing Set
			(8)	3045A	Connecting Rod Bearing Pair	(1)	3571BF	Thrust Washer Set
			(1)	260-1124	Gasket Kit		<b>205-1320M</b>	
				<b>205-1308M</b>		(1)	E-475X	Standard Piston Ring Set
			(1)	E-288X	Standard Piston Ring Set	(1)	4-3570CPB	Connecting Rod Bearing Set
			(8)	3045A	Connecting Rod Bearing Pair	(1)	260-1090	Gasket Kit
			(1)	260-1124	Gasket Kit	(1)	6631M	Main Bearing Set
				<b>205-1309</b>		(1)	3571BF	Thrust Washer Set
			(1)	E-297X	Standard Piston Ring Set		<b>205-1320M</b>	
			(8)	3045A	Connecting Rod Bearing Pair	(1)	E-475X	Standard Piston Ring Set
			(1)	260-1022	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set
				<b>205-1309M</b>		(1)	260-1090	Gasket Kit
			(1)	E-297X	Standard Piston Ring Set	(1)	6631M	Main Bearing Set
			(8)	3045A	Connecting Rod Bearing Pair	(1)	3571BF	Thrust Washer Set
			(1)	260-1022	Gasket Kit		<b>205-1320M</b>	
				<b>205-1310</b>		(1)	E-475X	Standard Piston Ring Set
			(1)	E-297X	Standard Piston Ring Set	(1)	4-3570CPB	Connecting Rod Bearing Set
			(8)	3045A	Connecting Rod Bearing Pair	(1)	260-1090	Gasket Kit
			(1)	260-1008	Gasket Kit	(1)	6631M	Main Bearing Set
				<b>205-1310M</b>		(1)	3571BF	Thrust Washer Set
			(1)	E-297X	Standard Piston Ring Set		<b>205-1320M</b>	
			(8)	3045A	Connecting Rod Bearing Pair	(1)	E-475X	Standard Piston Ring Set
			(1)	260-1008	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set
				<b>205-1318</b>		(1)	260-1090	Gasket Kit
			(1)	E-613X	Standard Piston Ring Set	(1)	6631M	Main Bearing Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	3571BF	Thrust Washer Set
			(1)	260-1652	Gasket Kit		<b>205-1320M</b>	
				<b>205-1318M</b>		(1)	E-516X	Standard Piston Ring Set
			(1)	E-613X	Standard Piston Ring Set	(1)	4-3955RA	Connecting Rod Bearing Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	260-1701	Gasket Kit
			(1)	260-1652	Gasket Kit		<b>205-1323M</b>	
				<b>205-1318M</b>		(1)	E-516X	Standard Piston Ring Set
			(1)	E-613X	Standard Piston Ring Set	(1)	4-3955RA	Connecting Rod Bearing Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	260-1701	Gasket Kit
			(1)	260-1652	Gasket Kit	(1)	6630M	Main Bearing Set
				<b>205-1318M</b>			<b>205-1324</b>	
			(1)	E-613X	Standard Piston Ring Set	(1)	E-516X	Standard Piston Ring Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	4-3955RA	Connecting Rod Bearing Set
			(1)	260-1652	Gasket Kit	(1)	260-1701	Gasket Kit
				<b>205-1318M</b>			<b>205-1324M</b>	
			(1)	E-613X	Standard Piston Ring Set	(1)	E-516X	Standard Piston Ring Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	4-4475RA	Connecting Rod Bearing Set
			(1)	260-1652	Gasket Kit	(1)	260-1701	Gasket Kit
				<b>205-1318M</b>			<b>205-1324M</b>	
			(1)	E-613X	Standard Piston Ring Set	(1)	E-516X	Standard Piston Ring Set
			(6)	3055CP	Connecting Rod Bearing Pair	(1)	4-4475RA	Connecting Rod Bearing Set
			(1)	260-1652	Gasket Kit	(1)	260-1701	Gasket Kit
				<				

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-1325M</b> (cont'd.)			<b>205-137M</b>			<b>205-153</b>			<b>205-162M</b>		
(1)	4-4475RA	Connecting Rod Bearing Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	260-1194	Gasket Kit	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	6630M	Main Bearing Set	(1)	260-1013	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit
<b>205-1335</b>			<b>205-1375</b>			<b>205-153M</b>			<b>205-167</b>		
(1)	E-524X	Standard Piston Ring Set	(1)	E-541X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-233X	Standard Piston Ring Set
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set
(1)	260-1709	Gasket Kit	(1)	260-1703	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1001	Gasket Kit
(1)	994M	Main Bearing Set	<b>205-1375M</b>			<b>205-155</b>			<b>205-170</b>		
<b>205-1335M</b>			(1)	E-541X	Standard Piston Ring Set	(1)	E-318X	Standard Piston Ring Set	(1)	E-270X	Standard Piston Ring Set
(1)	E-524X	Standard Piston Ring Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	260-1703	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1075	Gasket Kit
(1)	260-1709	Gasket Kit	<b>205-140</b>			<b>205-156</b>			<b>205-170M</b>		
(1)	5103M	Main Bearing Set	(1)	E-299X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-270X	Standard Piston Ring Set
<b>205-134</b>			(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set
(1)	E-288X	Standard Piston Ring Set	(1)	260-1025	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1075	Gasket Kit
(1)	8-2500RAA	Connecting Rod Bearing Set	<b>205-140M</b>			<b>205-156M</b>			<b>205-172</b>		
(1)	260-1012	Gasket Kit	(1)	E-299X	Standard Piston Ring Set	(1)	E-424X	Standard Piston Ring Set	(1)	E-261X	Standard Piston Ring Set
<b>205-134M</b>			(1)	8-1555CPA	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair
(1)	E-288X	Standard Piston Ring Set	(1)	260-1025	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1035	Gasket Kit
(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	4040M	Main Bearing Set	<b>205-157</b>			<b>205-174</b>		
(1)	260-1012	Gasket Kit	<b>205-1415</b>			(1)	E-359X	Standard Piston Ring Set	(1)	E-243X	Standard Piston Ring Set
(1)	4418M	Main Bearing Set	(1)	E-532X	Standard Piston Ring Set	(4)	3665P	Connecting Rod Bearing Pair	(1)	8-3345P	Connecting Rod Bearing Set
<b>205-1345M</b>			(1)	6-3760A	Connecting Rod Bearing Set	(1)	260-1021	Gasket Kit	(1)	260-1008	Gasket Kit
(1)	E-458X	Standard Piston Ring Set	(1)	260-1566	Gasket Kit	<b>205-158</b>			<b>205-1779E</b>		
(1)	8-2600A	Connecting Rod Bearing Set	<b>205-1415M</b>			(1)	E-251X	Standard Piston Ring Set	(1)	E-456X	Standard Piston Ring Set
(1)	260-1559	Gasket Kit	(1)	E-532X	Standard Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set
(1)	4125MA	Main Bearing Set	(1)	6-3760A	Connecting Rod Bearing Set	(1)	260-1045	Gasket Kit	(1)	260-1779	Gasket Kit
<b>205-1356</b>			(1)	260-1566	Gasket Kit	<b>205-158M</b>			<b>205-1779EM</b>		
(1)	E-534X	Standard Piston Ring Set	(1)	7144MA	Main Bearing Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-456X	Standard Piston Ring Set
(1)	8-3870RA	Connecting Rod Bearing Set	<b>205-142</b>			(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set
(1)	260-1475	Gasket Kit	(1)	E-318X	Standard Piston Ring Set	(1)	260-1045	Gasket Kit	(1)	260-1779	Gasket Kit
<b>205-1356M</b>			(1)	8-2320CP	Connecting Rod Bearing Set	<b>205-160</b>			<b>205-179</b>		
(1)	E-534X	Standard Piston Ring Set	(1)	260-1001	Gasket Kit	(1)	E-233X	Standard Piston Ring Set	(1)	E-300X	Standard Piston Ring Set
(1)	8-3870RA	Connecting Rod Bearing Set	<b>205-146</b>			(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-1555CPA	Connecting Rod Bearing Set
(1)	260-1475	Gasket Kit	(1)	E-352X	Standard Piston Ring Set	(1)	260-1046	Gasket Kit	(1)	260-1025	Gasket Kit
(1)	7256MA	Main Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	<b>205-160M</b>			<b>205-181</b>		
<b>205-1360</b>			(1)	260-1018	Gasket Kit	(1)	E-233X	Standard Piston Ring Set	(1)	E-418X	Standard Piston Ring Set
(1)	E-519X	Standard Piston Ring Set	<b>205-146M</b>			(1)	8-3190A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	E-352X	Standard Piston Ring Set	(1)	260-1046	Gasket Kit	(1)	260-1093	Gasket Kit
(1)	260-1090	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set	<b>205-161</b>			<b>205-181M</b>		
<b>205-1360M</b>			(1)	260-1018	Gasket Kit	(1)	E-243X	Standard Piston Ring Set	(1)	E-418X	Standard Piston Ring Set
(1)	E-519X	Standard Piston Ring Set	(1)	4979M	Main Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	4-3570CPB	Connecting Rod Bearing Set	<b>205-151</b>			(1)	260-1009	Gasket Kit	(1)	260-1093	Gasket Kit
(1)	260-1090	Gasket Kit	(1)	E-377X	Standard Piston Ring Set	<b>205-161M</b>			<b>205-183A</b>		
(1)	5028M	Main Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	E-243X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	3571BF	Thrust Washer Set	(1)	260-1122	Gasket Kit	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
<b>205-1361</b>			<b>205-151M</b>			(1)	260-1009	Gasket Kit	(1)	260-1095	Gasket Kit
(1)	E-599X	Standard Piston Ring Set	(1)	E-377X	Standard Piston Ring Set	<b>205-162</b>			<b>205-183AM</b>		
(1)	4-67230CP	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	260-1605	Gasket Kit	(1)	260-1122	Gasket Kit	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	260-1095	Gasket Kit
<b>205-1362</b>			(1)	5092M	Main Bearing Set	(1)	260-1000	Gasket Kit	(1)	4999MA	Main Bearing Set
(1)	E-560X	Standard Piston Ring Set	<b>205-152</b>			<b>205-162</b>			<b>205-183AM</b>		
(1)	4-67230CP	Connecting Rod Bearing Set	(1)	E-351X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1605	Gasket Kit	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	260-1095	Gasket Kit
<b>205-137</b>			(1)	260-1127	Gasket Kit	<b>205-162</b>			<b>205-183AM</b>		
(1)	E-296X	Standard Piston Ring Set	<b>205-152</b>			(1)	260-1000	Gasket Kit	(1)	4999MA	Main Bearing Set
(1)	8-3360CPA	Connecting Rod Bearing Set	<b>205-152</b>			<b>205-162</b>			<b>205-183AM</b>		
(1)	260-1013	Gasket Kit	(1)	E-351X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	8-2130CP	Connecting Rod Bearing Set
<b>205-137</b>			(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	260-1095	Gasket Kit
(1)	E-296X	Standard Piston Ring Set	(1)	260-1127	Gasket Kit	<b>205-162</b>			<b>205-183AM</b>		
(1)	8-3360CPA	Connecting Rod Bearing Set	<b>205-152</b>			(1)	260-1000	Gasket Kit	(1)	4999MA	Main Bearing Set
(1)	260-1013	Gasket Kit	<b>205-152</b>			<b>205-162</b>			<b>205-183AM</b>		
<b>205-137</b>			(1)	E-351X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	E-296X	Standard Piston Ring Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	260-1095	Gasket Kit
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	260-1127	Gasket Kit	<b>205-162</b>			<b>205-183AM</b>		
(1)	260-1013	Gasket Kit	<b>205-152</b>			(1)	260-1000	Gasket Kit	(1)	4999MA	Main Bearing Set

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-185</b>			<b>205-192</b>			<b>205-213</b>			<b>205-224</b>		
(1)	E-413X	Standard Piston Ring Set	(1)	E-414X	Standard Piston Ring Set	(1)	E-286X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	6-3750P	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1097	Gasket Kit	(1)	260-1101	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1149	Gasket Kit
<b>205-186</b>			<b>205-192M</b>			<b>205-213M</b>			<b>205-224M</b>		
(1)	E-232X	Standard Piston Ring Set	(1)	E-414X	Standard Piston Ring Set	(1)	E-286X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-3750P	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1101	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1149	Gasket Kit
			(1)	5085MA	Main Bearing Set	(1)	4923MA	Main Bearing Set	(1)	7144MA	Main Bearing Set
<b>205-186M</b>			<b>205-1921</b>			<b>205-214</b>			<b>205-225</b>		
(1)	E-232X	Standard Piston Ring Set	(1)	E-532X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1566	Gasket Kit	(1)	260-1128	Gasket Kit	(1)	260-1138	Gasket Kit
(1)	4400MA	Main Bearing Set									
<b>205-1861</b>			<b>205-1921M</b>			<b>205-215</b>			<b>205-225M</b>		
(1)	E-542X	Standard Piston Ring Set	(1)	E-532X	Standard Piston Ring Set	(1)	E-301X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	4-3975P	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1765	Gasket Kit	(1)	260-1566	Gasket Kit	(1)	260-1151	Gasket Kit	(1)	260-1138	Gasket Kit
			(1)	7144MA	Main Bearing Set				(1)	7144MA	Main Bearing Set
<b>205-1861M</b>			<b>205-1922</b>			<b>205-215M</b>			<b>205-227A</b>		
(1)	E-542X	Standard Piston Ring Set	(1)	E-532X	Standard Piston Ring Set	(1)	E-301X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	4-3975P	Connecting Rod Bearing Set	(1)	6-3760A	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1765	Gasket Kit	(1)	260-1469	Gasket Kit	(1)	260-1151	Gasket Kit	(1)	260-1143	Gasket Kit
(1)	6692M	Main Bearing Set				(1)	5037M	Main Bearing Set			
<b>205-1875</b>			<b>205-1922M</b>			<b>205-216</b>			<b>205-227AM</b>		
(1)	E-617X	Standard Piston Ring Set	(1)	E-532X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	4-4595P	Connecting Rod Bearing Set	(1)	6-3760A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1768	Gasket Kit	(1)	260-1469	Gasket Kit	(1)	260-1134	Gasket Kit	(1)	260-1143	Gasket Kit
			(1)	7144MA	Main Bearing Set				(1)	7242MA	Main Bearing Set
<b>205-1875M</b>			<b>205-194</b>			<b>205-216M</b>			<b>205-227M</b>		
(1)	E-617X	Standard Piston Ring Set	(1)	E-236X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	4-4595P	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1768	Gasket Kit	(1)	260-1103	Gasket Kit	(1)	260-1134	Gasket Kit	(1)	260-1143	Gasket Kit
(1)	7320M	Main Bearing Set				(1)	4289M	Main Bearing Set	(1)	5090MA	Main Bearing Set
<b>205-1878</b>			<b>205-1944</b>			<b>205-217A</b>			<b>205-228A</b>		
(1)	E-616X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1767	Gasket Kit	(1)	260-1434	Gasket Kit	(1)	260-1153	Gasket Kit	(1)	260-1144	Gasket Kit
<b>205-1878M</b>			<b>205-1944M</b>			<b>205-217AM</b>			<b>205-228AM</b>		
(1)	E-616X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1767	Gasket Kit	(1)	260-1434	Gasket Kit	(1)	260-1153	Gasket Kit	(1)	260-1144	Gasket Kit
(1)	6631M	Main Bearing Set	(1)	4979M	Main Bearing Set	(1)	5024MA	Main Bearing Set	(1)	7242MA	Main Bearing Set
<b>205-1882</b>			<b>205-195</b>			<b>205-217M</b>			<b>205-228M</b>		
(1)	E-528X	Standard Piston Ring Set	(1)	E-378X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set
(1)	6-1735CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1839	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1153	Gasket Kit	(1)	260-1144	Gasket Kit
						(1)	4923MA	Main Bearing Set	(1)	5090MA	Main Bearing Set
<b>205-1882M</b>			<b>205-195M</b>			<b>205-218A</b>			<b>205-232</b>		
(1)	E-528X	Standard Piston Ring Set	(1)	E-378X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-408X	Standard Piston Ring Set
(1)	6-1735CP	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1839	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1032	Gasket Kit
(1)	7090M	Main Bearing Set	(1)	4281M	Main Bearing Set						
<b>205-191</b>			<b>205-199</b>			<b>205-218AM</b>			<b>205-233</b>		
(1)	E-369X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-408X	Standard Piston Ring Set
(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1032	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1149	Gasket Kit
						(1)	5095MA	Main Bearing Set			
<b>205-191M</b>			<b>205-199M</b>			<b>205-218M</b>			<b>205-238</b>		
(1)	E-369X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set	(1)	E-289X	Standard Piston Ring Set
(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-3320CP	Connecting Rod Bearing Set
(1)	260-1032	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1150	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	5024MA	Main Bearing Set			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-239</b>			<b>205-252M</b>			<b>205-268</b>			<b>205-311</b>		
(1)	E-234X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-366X	Standard Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-67230CP	Connecting Rod Bearing Set
(1)	260-1129	Gasket Kit	(1)	260-1161	Gasket Kit	(1)	260-1177	Gasket Kit	(1)	260-1060	Gasket Kit
<b>205-239M</b>			<b>205-257</b>			<b>205-268M</b>			<b>205-312</b>		
(1)	E-234X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	E-360X	Standard Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4-67230CP	Connecting Rod Bearing Set
(1)	260-1129	Gasket Kit	(1)	260-1166	Gasket Kit	(1)	260-1177	Gasket Kit	(1)	260-1060	Gasket Kit
(1)	4124MA	Main Bearing Set				(1)	4907M	Main Bearing Set			
<b>205-243</b>			<b>205-257M</b>			<b>205-269A</b>			<b>205-329</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-357X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-3570CPB	Connecting Rod Bearing Set
(1)	260-1121	Gasket Kit	(1)	260-1166	Gasket Kit	(1)	260-1178	Gasket Kit	(1)	260-1090	Gasket Kit
			(1)	7295MA	Main Bearing Set						
<b>205-243M</b>			<b>205-258</b>			<b>205-269AM</b>			<b>205-330</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-416X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set
(1)	260-1121	Gasket Kit	(1)	260-1167	Gasket Kit	(1)	260-1178	Gasket Kit	(1)	260-1091	Gasket Kit
(1)	5024MA	Main Bearing Set				(1)	6689MA	Main Bearing Set			
<b>205-244A</b>			<b>205-258M</b>			<b>205-270</b>			<b>205-343</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-360X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-67230CP	Connecting Rod Bearing Set
(1)	260-1154	Gasket Kit	(1)	260-1167	Gasket Kit	(1)	260-1179	Gasket Kit	(1)	260-1159	Gasket Kit
			(1)	7295MA	Main Bearing Set						
<b>205-244AM</b>			<b>205-260</b>			<b>205-270M</b>			<b>205-352</b>		
(1)	E-178X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-436X	Standard Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	4-67275CP	Connecting Rod Bearing Set
(1)	260-1154	Gasket Kit	(1)	260-1169	Gasket Kit	(1)	260-1179	Gasket Kit	(1)	260-1062	Gasket Kit
(1)	5024MA	Main Bearing Set				(1)	6690MA	Main Bearing Set			
<b>205-245</b>			<b>205-260M</b>			<b>205-272</b>			<b>205-353</b>		
(1)	E-425X 1.00MM	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-437X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set
(1)	260-1155	Gasket Kit	(1)	260-1169	Gasket Kit	(1)	260-1181	Gasket Kit	(1)	260-1065	Gasket Kit
			(1)	4125MA	Main Bearing Set						
<b>205-245M</b>			<b>205-261</b>			<b>205-273</b>			<b>205-354</b>		
(1)	E-425X 1.00MM	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-416X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set
(1)	260-1155	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1182	Gasket Kit	(1)	260-1188	Gasket Kit
(1)	6618M	Main Bearing Set									
<b>205-247</b>			<b>205-261M</b>			<b>205-274A</b>			<b>205-354M</b>		
(1)	E-439X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-416X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set
(1)	260-1156	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1189	Gasket Kit	(1)	260-1188	Gasket Kit
			(1)	5078MA	Main Bearing Set				(1)	7148M	Main Bearing Set
<b>205-247M</b>			<b>205-263</b>			<b>205-274AM</b>			<b>205-358</b>		
(1)	E-439X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	260-1156	Gasket Kit	(1)	260-1172	Gasket Kit	(1)	260-1189	Gasket Kit	(1)	260-1191	Gasket Kit
(1)	6618M	Main Bearing Set				(1)	5078MA	Main Bearing Set			
<b>205-250</b>			<b>205-263M</b>			<b>205-274M</b>			<b>205-358M</b>		
(1)	E-439X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	260-1155	Gasket Kit	(1)	260-1172	Gasket Kit	(1)	260-1189	Gasket Kit	(1)	260-1191	Gasket Kit
			(1)	4979M	Main Bearing Set	(1)	5107M	Main Bearing Set	(1)	6676M	Main Bearing Set
<b>205-250M</b>			<b>205-265</b>			<b>205-301</b>			<b>205-359</b>		
(1)	E-439X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-364X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set
(1)	4-66675P	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	260-1155	Gasket Kit	(1)	260-1174	Gasket Kit	(1)	260-1065	Gasket Kit	(1)	260-1192	Gasket Kit
(1)	6618M	Main Bearing Set									
<b>205-252</b>			<b>205-265M</b>			<b>205-305</b>			<b>205-359M</b>		
(1)	E-352X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-360X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	4-67275CP	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set
(1)	260-1161	Gasket Kit	(1)	260-1174	Gasket Kit	(1)	260-1062	Gasket Kit	(1)	260-1192	Gasket Kit
			(1)	4916M	Main Bearing Set				(1)	6676M	Main Bearing Set
									<b>205-360</b>		
									(1)	E-222X	Standard Piston Ring Set

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-360</b> (cont'd.)			<b>205-382M</b>			<b>205-397M</b>			<b>205-6007M</b> (cont'd.)		
(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	E-465X	Standard Piston Ring Set	(1)	E-351X	Standard Piston Ring Set	(1)	260-1228	Gasket Kit
(1)	260-1193	Gasket Kit	(1)	4-2380CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	6689MA	Main Bearing Set
<b>205-360M</b>			(1)	260-1208	Gasket Kit	(1)	260-1219	Gasket Kit	<b>205-6008</b>		
(1)	E-222X	Standard Piston Ring Set	(1)	5130M	Main Bearing Set	(1)	6101MA	Main Bearing Set	(1)	E-384K	Premium Piston Ring Set
(1)	6-3310CPA	Connecting Rod Bearing Set	<b>205-383</b>			(1)	E-481X	Standard Piston Ring Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1193	Gasket Kit	(1)	E-465X	Standard Piston Ring Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1229	Gasket Kit
(1)	4289M	Main Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1220	Gasket Kit	<b>205-6008M</b>		
<b>205-361</b>			(1)	260-1208	Gasket Kit	<b>205-398</b>			(1)	E-384K	Premium Piston Ring Set
(1)	E-370X	Standard Piston Ring Set	<b>205-383M</b>			(1)	E-481X	Standard Piston Ring Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	4-3955RA	Connecting Rod Bearing Set	(1)	E-465X	Standard Piston Ring Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1229	Gasket Kit
(1)	260-1194	Gasket Kit	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	260-1220	Gasket Kit	(1)	6690MA	Main Bearing Set
<b>205-361M</b>			(1)	260-1208	Gasket Kit	<b>205-398M</b>			<b>205-6009</b>		
(1)	E-370X	Standard Piston Ring Set	(1)	5130M	Main Bearing Set	(1)	E-481X	Standard Piston Ring Set	(1)	E-450K	Premium Piston Ring Set
(1)	4-3955RA	Connecting Rod Bearing Set	<b>205-386</b>			(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1194	Gasket Kit	(1)	E-415X	Standard Piston Ring Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1230	Gasket Kit
(1)	6630M	Main Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1169	Gasket Kit	<b>205-6009M</b>		
<b>205-369</b>			(1)	260-1211	Gasket Kit	<b>205-6002</b>			(1)	E-450K	Premium Piston Ring Set
(1)	E-454X	Standard Piston Ring Set	<b>205-386M</b>			(1)	E-458K	Premium Piston Ring Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-415X	Standard Piston Ring Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1230	Gasket Kit
(1)	260-1093	Gasket Kit	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4123MA	Main Bearing Set
(1)	260-1093	Gasket Kit	(1)	260-1211	Gasket Kit	(1)	260-1169	Gasket Kit	<b>205-601</b>		
<b>205-369M</b>			(1)	7295MA	Main Bearing Set	<b>205-6002M</b>			(1)	E-180K	Premium Piston Ring Set
(1)	E-454X	Standard Piston Ring Set	<b>205-388</b>			(1)	E-458K	Premium Piston Ring Set	(1)	8-3230CP	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	260-1035	Gasket Kit
(1)	260-1093	Gasket Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1223	Gasket Kit	<b>205-601M</b>		
(1)	6678MA	Main Bearing Set	(1)	260-1213A	Gasket Kit	(1)	260-1223	Gasket Kit	(1)	E-180K	Premium Piston Ring Set
<b>205-370</b>			<b>205-388M</b>			<b>205-6003M</b>			(1)	8-3230CP	Connecting Rod Bearing Set
(1)	E-454X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-296K	Premium Piston Ring Set	(1)	260-1035	Gasket Kit
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	4261M	Main Bearing Set
(1)	260-1200	Gasket Kit	(1)	260-1213A	Gasket Kit	(1)	260-1223	Gasket Kit	<b>205-6010</b>		
<b>205-370M</b>			(1)	4125MA	Main Bearing Set	<b>205-6003M</b>			(1)	E-450K	Premium Piston Ring Set
(1)	E-454X	Standard Piston Ring Set	<b>205-388</b>			(1)	E-296K	Premium Piston Ring Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	E-251X	Standard Piston Ring Set	(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	260-1231	Gasket Kit
(1)	260-1200	Gasket Kit	(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1223	Gasket Kit	<b>205-6010M</b>		
(1)	6678MA	Main Bearing Set	(1)	260-1213A	Gasket Kit	<b>205-6004</b>			(1)	E-450K	Premium Piston Ring Set
<b>205-374</b>			<b>205-390</b>			<b>205-6004</b>			(1)	4-2020CP	Connecting Rod Bearing Set
(1)	E-452X	Standard Piston Ring Set	(1)	E-248X	Standard Piston Ring Set	(1)	E-447K	Premium Piston Ring Set	(1)	260-1231	Gasket Kit
(1)	4-3485CP	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	8-3810CP	Connecting Rod Bearing Set	(1)	4123MA	Main Bearing Set
(1)	260-1199	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1672	Gasket Kit	<b>205-6015</b>		
<b>205-374M</b>			<b>205-391</b>			<b>205-6004M</b>			(1)	260-1236	Gasket Kit
(1)	E-452X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set	(1)	E-447K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3810CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1199	Gasket Kit	(1)	260-1214	Gasket Kit	(1)	260-1672	Gasket Kit	(1)	260-1236	Gasket Kit
<b>205-374M</b>			<b>205-391M</b>			<b>205-6004M</b>			(1)	7144MA	Main Bearing Set
(1)	E-452X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set	(1)	260-4029	Valley Pan Gasket Set	<b>205-6015M</b>		
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	5110M	Main Bearing Set	(1)	E-369K	Premium Piston Ring Set
(1)	260-1199	Gasket Kit	(1)	260-1214	Gasket Kit	<b>205-6006</b>			(1)	6-3755A	Connecting Rod Bearing Set
(1)	5103M	Main Bearing Set	(1)	4979M	Main Bearing Set	(1)	E-477K	Premium Piston Ring Set	(1)	260-1236	Gasket Kit
<b>205-375</b>			<b>205-396</b>			<b>205-6006</b>			(1)	260-1236	Gasket Kit
(1)	E-455X	Standard Piston Ring Set	(1)	E-442X	Standard Piston Ring Set	(1)	4-2020CP	Connecting Rod Bearing Set	(1)	7144MA	Main Bearing Set
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1227	Gasket Kit	<b>205-6016</b>		
(1)	260-1199	Gasket Kit	(1)	260-1218	Gasket Kit	(1)	260-1227	Gasket Kit	(1)	E-197K	Premium Piston Ring Set
<b>205-375M</b>			<b>205-396M</b>			<b>205-6006M</b>			(1)	3755A	Connecting Rod Bearing Pair
(1)	E-455X	Standard Piston Ring Set	(1)	E-442X	Standard Piston Ring Set	(1)	E-477K	Premium Piston Ring Set	(1)	260-1032	Gasket Kit
(1)	4-3485CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set	<b>205-6017</b>		
(1)	260-1199	Gasket Kit	(1)	260-1218	Gasket Kit	(1)	260-1227	Gasket Kit	(1)	E-434K	Premium Piston Ring Set
(1)	5103M	Main Bearing Set	(1)	4979M	Main Bearing Set	(1)	7047MA	Main Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
<b>205-382</b>			<b>205-397</b>			<b>205-6007</b>			(1)	260-1138	Gasket Kit
(1)	E-465X	Standard Piston Ring Set	(1)	E-351X	Standard Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	<b>205-6017M</b>		
(1)	4-2380CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	E-434K	Premium Piston Ring Set
(1)	260-1208	Gasket Kit	(1)	260-1219	Gasket Kit	(1)	260-1228	Gasket Kit	(cont'd. next page)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	<b>205-6017M</b> (cont'd.)			<b>205-6024</b>			<b>205-6037</b>			<b>205-6066</b> (cont'd.)	
(1)	6-3755A	Connecting Rod Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	6-67035P	Connecting Rod Bearing Set
(1)	260-1138	Gasket Kit	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	260-1294	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit			
	<b>205-6018</b>			<b>205-6024M</b>			<b>205-6037M</b>			<b>205-6072</b>	
(1)	E-434K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-494KC	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-68150CP	Connecting Rod Bearing Set
(1)	260-1238	Gasket Kit	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit	(1)	260-1299	Gasket Kit
	<b>205-6018M</b>			<b>205-6025</b>			<b>205-6038</b>			<b>205-608A</b>	
(1)	E-434K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-219K	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1238	Gasket Kit	(1)	260-1245	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1002	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	4663MA	Main Bearing Set						
	<b>205-6019</b>			<b>205-6025M</b>			<b>205-6038M</b>			<b>205-608AM</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-219K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1239	Gasket Kit	(1)	260-1245	Gasket Kit	(1)	260-1269	Gasket Kit	(1)	260-1002	Gasket Kit
	<b>205-6019M</b>			<b>205-6026</b>			<b>205-604</b>			<b>205-608M</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-219K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set
(1)	260-1239	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1002	Gasket Kit
(1)	5085MA	Main Bearing Set							(1)	4290M	Main Bearing Set
	<b>205-602</b>			<b>205-6026M</b>			<b>205-604M</b>			<b>205-6083</b>	
(1)	E-196K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set
(1)	6-2375CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit	(1)	260-1032	Gasket Kit
	<b>205-602M</b>			<b>205-6027</b>			<b>205-6049</b>			<b>205-6083M</b>	
(1)	E-196K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-473KC	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set
(1)	6-2375CP	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-66780CP	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set
(1)	260-1004	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	260-1279	Gasket Kit	(1)	260-1032	Gasket Kit
(1)	4092M	Main Bearing Set							(1)	7144MA	Main Bearing Set
	<b>205-6020</b>			<b>205-6027M</b>			<b>205-605</b>			<b>205-6084</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-197K	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2380CP	Connecting Rod Bearing Set	(1)	8-3860P	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit	(1)	260-1247	Gasket Kit	(1)	260-1002	Gasket Kit	(1)	260-1315	Gasket Kit
	<b>205-6020M</b>			<b>205-603</b>			<b>205-6052</b>			<b>205-6084M</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-475KC	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	4-67230CP	Connecting Rod Bearing Set	(1)	8-3860P	Connecting Rod Bearing Set
(1)	260-1240	Gasket Kit	(1)	260-1004	Gasket Kit	(1)	260-1282	Gasket Kit	(1)	260-1315	Gasket Kit
(1)	5085MA	Main Bearing Set							(1)	7370M	Main Bearing Set
	<b>205-6021</b>			<b>205-603M</b>			<b>205-6057</b>			<b>205-6086</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-196K	Premium Piston Ring Set	(1)	E-489KC	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	6-3695RA	Connecting Rod Bearing Set	(1)	4-3925P	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit	(1)	260-1004	Gasket Kit	(1)	260-1286	Gasket Kit	(1)	260-1418	Gasket Kit
	<b>205-6021M</b>			<b>205-6035</b>			<b>205-6058</b>			<b>205-6086M</b>	
(1)	E-459K	Premium Piston Ring Set	(1)	E-484K .75MM	Premium Piston Ring Set	(1)	E-489KC	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	6-1020A	Connecting Rod Bearing Set	(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set
(1)	260-1241	Gasket Kit	(1)	260-1090	Gasket Kit	(1)	260-1286	Gasket Kit	(1)	260-1418	Gasket Kit
(1)	5085MA	Main Bearing Set							(1)	4400MA	Main Bearing Set
	<b>205-6023</b>			<b>205-6036</b>			<b>205-606M</b>			<b>205-6087</b>	
(1)	E-356K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set
(1)	260-1244	Gasket Kit	(1)	260-1267	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	260-1420	Gasket Kit
	<b>205-6023M</b>			<b>205-6036M</b>			<b>205-6064</b>			<b>205-6087M</b>	
(1)	E-356K	Premium Piston Ring Set	(1)	E-217K	Premium Piston Ring Set	(1)	E-491KC	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-2555A	Connecting Rod Bearing Set	(1)	6-3965CP	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set
(1)	260-1244	Gasket Kit	(1)	260-1267	Gasket Kit	(1)	260-1292	Gasket Kit	(1)	260-1420	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	4124MA	Main Bearing Set				(1)	4916M	Main Bearing Set
							<b>205-6066</b>				
							E-393KC	Premium Piston Ring Set (cont'd. next column)			

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-609</b>			<b>205-6097</b> (cont'd.)			<b>205-6103M</b> (cont'd.)			<b>205-6112</b>		
(1)	E-219K	Premium Piston Ring Set	(1)	260-1427	Gasket Kit	(1)	4-1400AA	Connecting Rod Bearing Set	(1)	E-471K	Premium Piston Ring Set
(1)	6-2380CP	Connecting Rod Bearing Set	<b>205-6097M</b>			(1)	260-1205	Gasket Kit	(6)	3830CPA	Connecting Rod Bearing Pair
(1)	260-1003	Gasket Kit	(1)	E-454K	Premium Piston Ring Set	(1)	6695MA	Main Bearing Set	(1)	260-1442	Gasket Kit
<b>205-609M</b>			<b>205-6098</b>			<b>205-6105</b>			<b>205-6112M</b>		
(1)	E-219K	Premium Piston Ring Set	(1)	260-1427	Gasket Kit	(1)	E-442KC	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	6-2380CP	Connecting Rod Bearing Set	(1)	6678MA	Main Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	260-1003	Gasket Kit	<b>205-6098M</b>			(1)	260-1434	Gasket Kit	(1)	260-1442	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	E-536K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
<b>205-6091</b>			<b>205-6098M</b>			<b>205-6105M</b>			<b>205-6113</b>		
(1)	E-509K	Premium Piston Ring Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	E-471K	Premium Piston Ring Set
(1)	8-3810CP	Connecting Rod Bearing Set	(1)	260-1428	Gasket Kit	(1)	260-1434	Gasket Kit	(6)	3830CPA	Connecting Rod Bearing Pair
(1)	260-1673	Gasket Kit	(1)	E-536K	Premium Piston Ring Set	(1)	4979M	Main Bearing Set	(1)	260-1443	Gasket Kit
(1)	260-4029	Valley Pan Gasket Set	(1)	6-1460A	Connecting Rod Bearing Set	<b>205-6106</b>			<b>205-6113M</b>		
<b>205-6091M</b>			<b>205-6099</b>			<b>205-6106M</b>			<b>205-6114</b>		
(1)	E-509K	Premium Piston Ring Set	(1)	E-536K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set
(1)	8-3810CP	Connecting Rod Bearing Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(6)	3830CPA	Connecting Rod Bearing Pair
(1)	260-1673	Gasket Kit	(1)	7050MA	Main Bearing Set	(1)	260-1436	Gasket Kit	(1)	260-1443	Gasket Kit
(1)	260-4029	Valley Pan Gasket Set	<b>205-6099M</b>			<b>205-6106M</b>			(1)	7295MA	Main Bearing Set
(1)	5110M	Main Bearing Set	(1)	E-536K	Premium Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set	<b>205-6114M</b>		
<b>205-6092</b>			<b>205-6099M</b>			<b>205-6107</b>			<b>205-6115</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	6-1460A	Connecting Rod Bearing Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set
(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	260-1429	Gasket Kit	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1424	Gasket Kit	<b>205-610</b>			(1)	260-1436	Gasket Kit	(6)	3830CPA	Connecting Rod Bearing Pair
<b>205-6092M</b>			<b>205-610M</b>			<b>205-6107M</b>			<b>205-6115M</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set
(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1424	Gasket Kit	(1)	260-1007	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	8-3380A	Connecting Rod Bearing Set
(1)	4289M	Main Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	5130M	Main Bearing Set	(1)	260-1445	Gasket Kit
<b>205-6093</b>			<b>205-610M</b>			<b>205-6108</b>			<b>205-6116M</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1425	Gasket Kit	(1)	260-1007	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	260-1446	Gasket Kit
<b>205-6093M</b>			<b>205-610M</b>			<b>205-6108M</b>			<b>205-6116M</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	260-1438	Gasket Kit	(1)	260-1446	Gasket Kit
(1)	260-1425	Gasket Kit	(1)	260-1430	Gasket Kit	<b>205-6110</b>			<b>205-6118</b>		
(1)	6678MA	Main Bearing Set	(1)	4289M	Main Bearing Set	(1)	E-465K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
<b>205-6094</b>			<b>205-6100</b>			<b>205-6110M</b>			<b>205-6118M</b>		
(1)	E-453K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set	(1)	E-442KC	Premium Piston Ring Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	260-1438	Gasket Kit	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1426	Gasket Kit	(1)	260-1430	Gasket Kit	(1)	5130M	Main Bearing Set	(1)	260-1447	Gasket Kit
(1)	260-1426	Gasket Kit	<b>205-6100M</b>			<b>205-6110M</b>			<b>205-6119</b>		
<b>205-6094M</b>			<b>205-6100M</b>			<b>205-6110M</b>			<b>205-6119</b>		
(1)	E-453K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1426	Gasket Kit	(1)	260-1430	Gasket Kit	(1)	260-1210	Gasket Kit	(1)	260-1446	Gasket Kit
(1)	6678MA	Main Bearing Set	(1)	5095MA	Main Bearing Set	<b>205-6110M</b>			(1)	5078MA	Main Bearing Set
<b>205-6095</b>			<b>205-6102</b>			<b>205-6110M</b>			<b>205-6118</b>		
(1)	E-516KC	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	4-3955RA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1194	Gasket Kit	(1)	260-1432	Gasket Kit	(1)	260-1210	Gasket Kit	(1)	260-1447	Gasket Kit
<b>205-6095M</b>			<b>205-6102M</b>			<b>205-6111</b>			<b>205-6118M</b>		
(1)	E-516KC	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	4-3955RA	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set	(6)	3830CPA	Connecting Rod Bearing Pair	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1194	Gasket Kit	(1)	260-1432	Gasket Kit	(1)	260-1441	Gasket Kit	(1)	260-1447	Gasket Kit
(1)	6630M	Main Bearing Set	(1)	7090M	Main Bearing Set	<b>205-6111M</b>			<b>205-6119</b>		
<b>205-6097</b>			<b>205-6103M</b>			<b>205-6111M</b>			<b>205-6119</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-470KC	Premium Piston Ring Set	(1)	E-471K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-1400AA	Connecting Rod Bearing Set	(6)	3830CPA	Connecting Rod Bearing Pair	(1)	4-3545A	Connecting Rod Bearing Set
(cont'd. next column)			(1)	260-1205	Gasket Kit	(1)	260-1441	Gasket Kit	(1)	260-1448	Gasket Kit
			(cont'd. next column)								

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6119M</b>			<b>205-6127M</b> (cont'd.)			<b>205-6135</b> (cont'd.)			<b>205-6142M</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	3926AF	Thrust Washer Set	(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	E-444K	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	<b>205-6128</b>			(1)	260-1462	Gasket Kit	(1)	8-3870RA	Connecting Rod Bearing Set
(1)	260-1448	Gasket Kit	(1)	E-540KC	Premium Piston Ring Set	<b>205-6135M</b>			(1)	260-1470	Gasket Kit
(1)	7291MA	Main Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	E-384K	Premium Piston Ring Set	(1)	7046MA	Main Bearing Set
<b>205-612</b>			(1)	260-1457	Gasket Kit	(1)	4-2500RAA	Connecting Rod Bearing Set	<b>205-6144</b>		
(1)	E-229K	Premium Piston Ring Set	<b>205-6128M</b>			(1)	260-1462	Gasket Kit	(1)	E-444K	Premium Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	E-540KC	Premium Piston Ring Set	(1)	6690MA	Main Bearing Set	(1)	8-3870RA	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	(1)	4-1025PA	Connecting Rod Bearing Set	<b>205-6136</b>			(1)	260-1473	Gasket Kit
<b>205-612M</b>			(1)	260-1457	Gasket Kit	(1)	E-384K	Premium Piston Ring Set	<b>205-6144M</b>		
(1)	E-229K	Premium Piston Ring Set	(1)	6680MA	Main Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair	(1)	E-444K	Premium Piston Ring Set
(1)	6-3150CPA	Connecting Rod Bearing Set	(1)	3926AF	Thrust Washer Set	(1)	260-1463	Gasket Kit	(1)	8-3870RA	Connecting Rod Bearing Set
(1)	260-1006	Gasket Kit	<b>205-613</b>			<b>205-6136M</b>			(1)	260-1473	Gasket Kit
(1)	4916M	Main Bearing Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set	(1)	7046MA	Main Bearing Set
<b>205-6120</b>			(1)	8-3190A	Connecting Rod Bearing Set	(4)	2500RAA	Connecting Rod Bearing Pair	<b>205-6146</b>		
(1)	E-446K	Premium Piston Ring Set	(1)	260-1009	Gasket Kit	(1)	260-1463	Gasket Kit	(1)	E-534K	Premium Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	<b>205-613M</b>			(1)	6690MA	Main Bearing Set	(8)	3870RA	Connecting Rod Bearing Pair
(1)	260-1222	Gasket Kit	(1)	E-233K	Premium Piston Ring Set	<b>205-6138</b>			(1)	260-1474	Gasket Kit
<b>205-6120M</b>			(1)	8-3190A	Connecting Rod Bearing Set	(1)	E-369K	Premium Piston Ring Set	<b>205-6146M</b>		
(1)	E-446K	Premium Piston Ring Set	(1)	260-1009	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	(1)	E-534K	Premium Piston Ring Set
(1)	6-1220RA	Connecting Rod Bearing Set	(1)	4400MA	Main Bearing Set	(1)	260-1465	Gasket Kit	(8)	3870RA	Connecting Rod Bearing Pair
(1)	260-1222	Gasket Kit	<b>205-6130</b>			<b>205-6138M</b>			(1)	260-1474	Gasket Kit
(1)	7011MA	Main Bearing Set	(1)	E-539KC	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	7046MA	Main Bearing Set
<b>205-6121</b>			(1)	4-1490CPA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	<b>205-6147M</b>		
(1)	E-458K	Premium Piston Ring Set	(1)	260-1459	Gasket Kit	(1)	260-1465	Gasket Kit	(1)	E-534K	Premium Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	<b>205-6130M</b>			(1)	7144MA	Main Bearing Set	(8)	3870RA	Connecting Rod Bearing Pair
(1)	260-1451	Gasket Kit	(1)	E-539KC	Premium Piston Ring Set	<b>205-614</b>			(1)	260-1475	Gasket Kit
<b>205-6121M</b>			(1)	4-1490CPA	Connecting Rod Bearing Set	(1)	E-234K	Premium Piston Ring Set	(1)	7046MA	Main Bearing Set
(1)	E-458K	Premium Piston Ring Set	(1)	260-1459	Gasket Kit	(1)	6-2020CP	Connecting Rod Bearing Set	<b>205-6148</b>		
(1)	8-2600A	Connecting Rod Bearing Set	(1)	7108M	Main Bearing Set	(1)	260-1005	Gasket Kit	(1)	E-288K	Premium Piston Ring Set
(1)	260-1451	Gasket Kit	<b>205-6131</b>			<b>205-614M</b>			(1)	8-3045A	Connecting Rod Bearing Set
(1)	4125MA	Main Bearing Set	(1)	E-531K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	260-1477	Gasket Kit
<b>205-6123</b>			(1)	4-2020CP	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	<b>205-6148M</b>		
(1)	E-296K	Premium Piston Ring Set	(1)	260-1227	Gasket Kit	(1)	260-1005	Gasket Kit	(1)	E-288K	Premium Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	<b>205-6131M</b>			(1)	4124MA	Main Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set
(1)	260-1452	Gasket Kit	(1)	E-531K	Premium Piston Ring Set	<b>205-6140</b>			(1)	260-1477	Gasket Kit
<b>205-6123M</b>			(1)	4-2020CP	Connecting Rod Bearing Set	(1)	E-533K	Premium Piston Ring Set	(1)	4281M	Main Bearing Set
(1)	E-296K	Premium Piston Ring Set	(1)	260-1227	Gasket Kit	(6)	3755A	Connecting Rod Bearing Pair	<b>205-6149</b>		
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	7047MA	Main Bearing Set	<b>205-6140M</b>			(1)	E-251K	Premium Piston Ring Set
(1)	260-1452	Gasket Kit	<b>205-6132</b>			(1)	E-533K	Premium Piston Ring Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	4907M	Main Bearing Set	(1)	E-535K	Premium Piston Ring Set	(1)	3755A	Connecting Rod Bearing Pair	(1)	260-1479	Gasket Kit
<b>205-6124</b>			(1)	4-1540A	Connecting Rod Bearing Set	<b>205-6141</b>			<b>205-6149M</b>		
(1)	E-296K	Premium Piston Ring Set	(1)	260-1460	Gasket Kit	(1)	260-1467	Gasket Kit	(1)	E-251K	Premium Piston Ring Set
(1)	8-3360CPA	Connecting Rod Bearing Set	<b>205-6132M</b>			(1)	7144MA	Main Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1453	Gasket Kit	(1)	E-535K	Premium Piston Ring Set	<b>205-6141M</b>			(1)	260-1479	Gasket Kit
<b>205-6124M</b>			(1)	4-1540A	Connecting Rod Bearing Set	(1)	E-532K	Premium Piston Ring Set	(1)	4663MA	Main Bearing Set
(1)	E-296K	Premium Piston Ring Set	(1)	260-1460	Gasket Kit	(1)	6-3755A	Connecting Rod Bearing Set	<b>205-615</b>		
(1)	8-3360CPA	Connecting Rod Bearing Set	(1)	7054MA	Main Bearing Set	(1)	260-1469	Gasket Kit	(1)	E-234K	Premium Piston Ring Set
(1)	260-1453	Gasket Kit	<b>205-6134</b>			<b>205-6141M</b>			(1)	6-2020CP	Connecting Rod Bearing Set
(1)	4907M	Main Bearing Set	(1)	E-384K	Premium Piston Ring Set	(1)	E-532K	Premium Piston Ring Set	(1)	260-1019	Gasket Kit
<b>205-6127</b>			(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	6-3755A	Connecting Rod Bearing Set	<b>205-615M</b>		
(1)	E-456KC	Premium Piston Ring Set	(1)	260-1464	Gasket Kit	(1)	260-1469	Gasket Kit	(1)	E-234K	Premium Piston Ring Set
(1)	4-1025PA	Connecting Rod Bearing Set	<b>205-6134M</b>			(1)	7144MA	Main Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set
(1)	260-1456	Gasket Kit	(1)	E-384K	Premium Piston Ring Set	<b>205-6142</b>			(1)	260-1019	Gasket Kit
<b>205-6127M</b>			(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	E-444K	Premium Piston Ring Set	(1)	4124MA	Main Bearing Set
(1)	E-456KC	Premium Piston Ring Set	(1)	260-1464	Gasket Kit	(1)	8-3870RA	Connecting Rod Bearing Set	<b>205-6151</b>		
(1)	4-1025PA	Connecting Rod Bearing Set	(1)	6689MA	Main Bearing Set	(1)	260-1470	Gasket Kit	(1)	E-377K	Premium Piston Ring Set
(1)	260-1456	Gasket Kit	<b>205-6135</b>			<b>205-6142M</b>			(1)	8-2555A	Connecting Rod Bearing Set
(1)	6680MA	Main Bearing Set	(1)	E-384K	Premium Piston Ring Set	<b>205-6142M</b>			(1)	260-1478	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next column)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6151M</b>			<b>205-6158M</b> (cont'd.)			<b>205-6176M</b>			<b>205-6186</b>		
(1)	E-377K	Premium Piston Ring Set	(1)	6699MA	Main Bearing Set	(1)	E-525KC	Premium Piston Ring Set	(1)	E-476K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	67341AF	Thrust Washer Set	(1)	6-1845CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1478	Gasket Kit	<b>205-616</b>			(1)	260-1498	Gasket Kit	(1)	260-1526	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	E-234K	Premium Piston Ring Set	(1)	7099M	Main Bearing Set	<b>205-6186M</b>		
<b>205-6152</b>			(1)	6-2020CP	Connecting Rod Bearing Set	<b>205-6177</b>			(1)	E-476K	Premium Piston Ring Set
(1)	E-530K	Premium Piston Ring Set	(1)	260-1037	Gasket Kit	(1)	E-511KC	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	<b>205-616M</b>			(1)	4-1610CP	Connecting Rod Bearing Set	(1)	260-1526	Gasket Kit
(1)	260-1478	Gasket Kit	(1)	E-234K	Premium Piston Ring Set	(1)	260-1499	Gasket Kit	(1)	4979M	Main Bearing Set
<b>205-6152M</b>			(1)	6-2020CP	Connecting Rod Bearing Set	<b>205-6177M</b>			<b>205-6187</b>		
(1)	E-530K	Premium Piston Ring Set	(1)	260-1037	Gasket Kit	(1)	E-511KC	Premium Piston Ring Set	(6)	E-623KC	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4124MA	Main Bearing Set	(1)	4-1610CP	Connecting Rod Bearing Set	(1)	6-4205CP	Connecting Rod Bearing Set
(1)	260-1478	Gasket Kit	<b>205-6160</b>			(1)	260-1499	Gasket Kit	(1)	260-1527	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	E-515KC	Premium Piston Ring Set	(1)	7116MA	Main Bearing Set	<b>205-6187M</b>		
<b>205-6153</b>			(1)	4-1520CP	Connecting Rod Bearing Set	<b>205-6178</b>			(6)	E-623KC	Premium Piston Ring Set
(1)	E-377K	Premium Piston Ring Set	(1)	260-1485	Gasket Kit	(1)	E-456KC	Premium Piston Ring Set	(1)	6-4205CP	Connecting Rod Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	<b>205-6160M</b>			(1)	4-3925P	Connecting Rod Bearing Set	(1)	260-1527	Gasket Kit
(1)	260-1268	Gasket Kit	(1)	E-515KC	Premium Piston Ring Set	(1)	260-1501	Gasket Kit	(1)	7216M	Main Bearing Set
<b>205-6153M</b>			(1)	4-1520CP	Connecting Rod Bearing Set	<b>205-6179</b>			<b>205-619</b>		
(1)	E-377K	Premium Piston Ring Set	(1)	260-1485	Gasket Kit	(1)	E-456KC	Premium Piston Ring Set	(1)	E-245K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	6699MA	Main Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	260-1268	Gasket Kit	(1)	67341AF	Thrust Washer Set	(1)	260-1501	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	4663MA	Main Bearing Set	<b>205-6161</b>			<b>205-6180</b>			<b>205-619M</b>		
<b>205-6155</b>			(1)	E-554KC	Premium Piston Ring Set	(1)	E-456KC	Premium Piston Ring Set	(1)	E-245K	Premium Piston Ring Set
(1)	E-384K	Premium Piston Ring Set	(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	260-1486	Gasket Kit	(1)	260-1500	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	260-1482	Gasket Kit	<b>205-6161M</b>			<b>205-6180M</b>			(1)	994M	Main Bearing Set
<b>205-6155M</b>			(1)	E-554KC	Premium Piston Ring Set	(1)	E-456KC	Premium Piston Ring Set	<b>205-6205</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set
(1)	4-2500RAA	Connecting Rod Bearing Set	(1)	260-1486	Gasket Kit	(1)	260-1500	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1482	Gasket Kit	(1)	7035M	Main Bearing Set	(1)	6680MA	Main Bearing Set	(1)	260-1616	Gasket Kit
(1)	6689MA	Main Bearing Set	(1)	67341AF	Thrust Washer Set	(1)	3926AF	Thrust Washer Set	<b>205-6205M</b>		
<b>205-6156</b>			<b>205-6163</b>			<b>205-6181</b>			(1)	E-454K	Premium Piston Ring Set
(1)	E-377K	Premium Piston Ring Set	(1)	E-526KC	Premium Piston Ring Set	(1)	E-523KC	Premium Piston Ring Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-3895RA	Connecting Rod Bearing Set	(1)	260-1616	Gasket Kit
(1)	260-1269	Gasket Kit	(1)	260-1488	Gasket Kit	(1)	260-1502	Gasket Kit	(1)	6678MA	Main Bearing Set
<b>205-6156M</b>			<b>205-6163M</b>			<b>205-6182</b>			<b>205-6206A</b>		
(1)	E-377K	Premium Piston Ring Set	(1)	E-526KC	Premium Piston Ring Set	(1)	E-510KC	Premium Piston Ring Set	(1)	E-529K	Premium Piston Ring Set
(1)	8-2555A	Connecting Rod Bearing Set	(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	6-1920RA	Connecting Rod Bearing Set
(1)	260-1269	Gasket Kit	(1)	260-1488	Gasket Kit	(1)	260-1503	Gasket Kit	(1)	260-1646	Gasket Kit
(1)	4663MA	Main Bearing Set	(1)	7035M	Main Bearing Set	<b>205-6182M</b>			<b>205-6206AM</b>		
<b>205-6157</b>			(1)	67341AF	Thrust Washer Set	(1)	E-510KC	Premium Piston Ring Set	(1)	E-529K	Premium Piston Ring Set
(1)	E-438KC	Premium Piston Ring Set	<b>205-6167</b>			(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	6-1920RA	Connecting Rod Bearing Set
(1)	4-1520CP	Connecting Rod Bearing Set	(1)	E-473KC	Premium Piston Ring Set	(1)	260-1503	Gasket Kit	(1)	260-1646	Gasket Kit
(1)	260-1483	Gasket Kit	(1)	4-66780CP	Connecting Rod Bearing Set	(1)	7148M	Main Bearing Set	(1)	7278MA	Main Bearing Set
<b>205-6157M</b>			(1)	260-1490	Gasket Kit	(1)	67333AF	Thrust Washer Set	<b>205-621</b>		
(1)	E-438KC	Premium Piston Ring Set	<b>205-617</b>			<b>205-6184</b>			(1)	E-245K	Premium Piston Ring Set
(1)	4-1520CP	Connecting Rod Bearing Set	(1)	E-240K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set	(1)	8-1555CPA	Connecting Rod Bearing Set
(1)	260-1483	Gasket Kit	(1)	8-3310CPA	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	260-1025	Gasket Kit
(1)	6793M	Main Bearing Set	(1)	260-1010	Gasket Kit	<b>205-6184M</b>			<b>205-6212</b>		
(1)	67341AF	Thrust Washer Set	<b>205-6173</b>			(1)	E-605K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set
<b>205-6158</b>			(1)	E-558KC	Premium Piston Ring Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	E-512KC	Premium Piston Ring Set	(1)	6-1845CP	Connecting Rod Bearing Set	(1)	260-1466	Gasket Kit	(1)	260-1556	Gasket Kit
(1)	4-1520CP	Connecting Rod Bearing Set	(1)	260-1495	Gasket Kit	<b>205-6185</b>			<b>205-6212M</b>		
(1)	260-1483	Gasket Kit	<b>205-6176</b>			(1)	E-491KC	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set
<b>205-6158M</b>			(1)	E-525KC	Premium Piston Ring Set	(1)	6-1165CP	Connecting Rod Bearing Set	(1)	6-1220RA	Connecting Rod Bearing Set
(1)	E-512KC	Premium Piston Ring Set	(1)	6-1845CP	Connecting Rod Bearing Set	(1)	260-1292	Gasket Kit	(1)	260-1556	Gasket Kit
(1)	4-1520CP	Connecting Rod Bearing Set	(1)	260-1498	Gasket Kit	<b>205-6185</b>			(1)	7011MA	Main Bearing Set
(1)	260-1483	Gasket Kit	(cont'd. next column)			<b>205-6185</b>			<b>205-6212M</b>		
						(1)	E-491KC	Premium Piston Ring Set	(1)	6-1220RA	Connecting Rod Bearing Set
						(1)	6-1165CP	Connecting Rod Bearing Set	(1)	260-1556	Gasket Kit
						(1)	260-1292	Gasket Kit	(1)	7011MA	Main Bearing Set

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6215</b>			<b>205-625M</b> (cont'd.)			<b>205-6282</b> (cont'd.)			<b>205-6297M</b>		
(1)	E-458K	Premium Piston Ring Set	(1)	5107M	Main Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	E-478K	Premium Piston Ring Set
(1)	8-2600A	Connecting Rod Bearing Set	<b>205-6257</b>			(1)	260-1016	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1559	Gasket Kit	(1)	E-468K	Premium Piston Ring Set	<b>205-6282M</b>			(1)	260-1233	Gasket Kit
<b>205-6216</b>			(1)	8-3860P	Connecting Rod Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	7242MA	Main Bearing Set
(1)	E-552KC	Premium Piston Ring Set	(1)	260-1619	Gasket Kit	(1)	E-243K	Premium Piston Ring Set	<b>205-6298</b>		
(1)	4-3910RA	Connecting Rod Bearing Set	<b>205-6257M</b>			(1)	260-1016	Gasket Kit	(1)	E-432K	Premium Piston Ring Set
(1)	260-1560	Gasket Kit	(1)	E-468K	Premium Piston Ring Set	(1)	4926MA	Main Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
<b>205-6216M</b>			(1)	8-3860P	Connecting Rod Bearing Set	<b>205-6283</b>			(1)	260-1123	Gasket Kit
(1)	E-552KC	Premium Piston Ring Set	(1)	260-1619	Gasket Kit	(1)	E-245K	Premium Piston Ring Set	<b>205-6298M</b>		
(1)	4-3910RA	Connecting Rod Bearing Set	(1)	7370M	Main Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	E-432K	Premium Piston Ring Set
(1)	260-1560	Gasket Kit	<b>205-6262M</b>			(1)	260-1000	Gasket Kit	(1)	6-4020A	Connecting Rod Bearing Set
(1)	7204M	Main Bearing Set	(1)	E-481K	Premium Piston Ring Set	<b>205-6283M</b>			(1)	260-1123	Gasket Kit
(1)	4176AF	Thrust Washer Set	(1)	6-3055CP	Connecting Rod Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	5090MA	Main Bearing Set
<b>205-6219</b>			(1)	260-1220	Gasket Kit	<b>205-6285</b>			<b>205-6299</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	7245MA	Main Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-411K	Premium Piston Ring Set
(4)	2500RAA	Connecting Rod Bearing Pair	<b>205-6265</b>			(1)	8-2555A	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1563	Gasket Kit	(1)	E-217K	Premium Piston Ring Set	(1)	260-1000	Gasket Kit	(1)	260-1143	Gasket Kit
<b>205-6219M</b>			(6)	2555A	Connecting Rod Bearing Pair	<b>205-6285M</b>			<b>205-630</b>		
(1)	E-384K	Premium Piston Ring Set	(1)	260-1005	Gasket Kit	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(4)	2500RAA	Connecting Rod Bearing Pair	<b>205-6265M</b>			(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	260-1563	Gasket Kit	(1)	E-217K	Premium Piston Ring Set	(1)	260-1023	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	6689MA	Main Bearing Set	(6)	2555A	Connecting Rod Bearing Pair	<b>205-6285M</b>			<b>205-630M</b>		
<b>205-622A</b>			(1)	4124MA	Main Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>205-6266</b>			(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	260-1005	Gasket Kit	(1)	260-1023	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	260-1033	Gasket Kit	(6)	2555A	Connecting Rod Bearing Pair	(1)	4663MA	Main Bearing Set	(1)	4663MA	Main Bearing Set
<b>205-622AM</b>			(1)	260-1044	Gasket Kit	<b>205-6286</b>			<b>205-6300</b>		
(1)	E-251K	Premium Piston Ring Set	<b>205-6266M</b>			(1)	E-356K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-217K	Premium Piston Ring Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set
(1)	260-1033	Gasket Kit	(6)	2555A	Connecting Rod Bearing Pair	(1)	260-1024	Gasket Kit	(1)	260-1233	Gasket Kit
(1)	4999MA	Main Bearing Set	(1)	260-1044	Gasket Kit	<b>205-6286M</b>			<b>205-6300M</b>		
<b>205-622M</b>			(1)	4124MA	Main Bearing Set	(1)	E-356K	Premium Piston Ring Set	(1)	E-605K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>205-627A</b>			(8)	2555A	Connecting Rod Bearing Pair	(1)	6-4020A	Connecting Rod Bearing Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	260-1024	Gasket Kit	(1)	260-1233	Gasket Kit
(1)	260-1033	Gasket Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	4663MA	Main Bearing Set	(1)	7242MA	Main Bearing Set
(1)	4948MA	Main Bearing Set	(1)	260-1126	Gasket Kit	<b>205-629</b>			<b>205-6308</b>		
<b>205-624</b>			<b>205-627AM</b>			(1)	E-251K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	8-2500RAA	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	260-1122	Gasket Kit	(1)	260-1124	Gasket Kit
(1)	260-1014	Gasket Kit	(1)	260-1126	Gasket Kit	<b>205-629M</b>			<b>205-6308M</b>		
<b>205-624AM</b>			(1)	5078MA	Main Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-288K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>205-627M</b>			(1)	8-2500RAA	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	260-1122	Gasket Kit	(1)	260-1124	Gasket Kit
(1)	260-1014	Gasket Kit	(1)	8-3380A	Connecting Rod Bearing Set	(1)	5092M	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	5078MA	Main Bearing Set	(1)	260-1126	Gasket Kit	<b>205-6296</b>			<b>205-6309</b>		
<b>205-624M</b>			(1)	5107M	Main Bearing Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-297K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>205-6279</b>			(1)	6-4020A	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	8-3400CP	Connecting Rod Bearing Set	(1)	E-530K	Premium Piston Ring Set	(1)	260-1232	Gasket Kit	(1)	260-1022	Gasket Kit
(1)	260-1014	Gasket Kit	(8)	2555A	Connecting Rod Bearing Pair	<b>205-6296M</b>			<b>205-6309M</b>		
(1)	5107M	Main Bearing Set	(1)	260-1478	Gasket Kit	(1)	E-432K	Premium Piston Ring Set	(1)	E-297K	Premium Piston Ring Set
<b>205-625</b>			<b>205-6279M</b>			(1)	6-4020A	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	E-251K	Premium Piston Ring Set	(1)	E-530K	Premium Piston Ring Set	(1)	260-1232	Gasket Kit	(1)	260-1022	Gasket Kit
(1)	8-3380A	Connecting Rod Bearing Set	(8)	2555A	Connecting Rod Bearing Pair	(1)	7242MA	Main Bearing Set	(1)	4281M	Main Bearing Set
(1)	260-1028	Gasket Kit	(1)	260-1478	Gasket Kit	<b>205-6297</b>			<b>205-6310</b>		
<b>205-625M</b>			(1)	4663MA	Main Bearing Set	(1)	E-478K	Premium Piston Ring Set	(1)	E-297K	Premium Piston Ring Set
(1)	E-251K	Premium Piston Ring Set	<b>205-6282</b>			(1)	6-4020A	Connecting Rod Bearing Set	(8)	3045A	Connecting Rod Bearing Pair
(1)	8-3380A	Connecting Rod Bearing Set	(1)	E-243K	Premium Piston Ring Set	(1)	260-1233	Gasket Kit	(1)	260-1008	Gasket Kit
(1)	260-1028	Gasket Kit	(cont'd. next column)			(cont'd. next column)			(cont'd. next column)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6310M</b>			<b>205-6324M</b> (cont'd.)			<b>205-6346M</b>		
(1)	E-297K	Premium Piston Ring Set	(1)	4-4475RA	Connecting Rod Bearing Set	(1)	E-550KC	Premium Piston Ring Set
(8)	3045A	Connecting Rod Bearing Pair	(1)	260-1701	Gasket Kit	(1)	3-1140RA	Connecting Rod Bearing Set
(1)	260-1008	Gasket Kit	(1)	6630M	Main Bearing Set	(1)	260-1637	Gasket Kit
(1)	4281M	Main Bearing Set	<b>205-6325</b>			(1)	6685M	Main Bearing Set
<b>205-6318</b>			(1)	E-516KC	Premium Piston Ring Set	(1)	1063AF	Thrust Washer Set
(1)	E-613K	Premium Piston Ring Set	(1)	4-4475RA	Connecting Rod Bearing Set	<b>205-6347</b>		
(6)	3055CP	Connecting Rod Bearing Pair	(1)	260-1194	Gasket Kit	(1)	E-549KC	Premium Piston Ring Set
(1)	260-1652	Gasket Kit	<b>205-6325M</b>			(1)	3-1140RA	Connecting Rod Bearing Set
<b>205-6318M</b>			(1)	E-516KC	Premium Piston Ring Set	(1)	260-1637	Gasket Kit
(1)	E-613K	Premium Piston Ring Set	(1)	4-4475RA	Connecting Rod Bearing Set	<b>205-6347M</b>		
(6)	3055CP	Connecting Rod Bearing Pair	(1)	260-1194	Gasket Kit	(1)	E-549KC	Premium Piston Ring Set
(1)	260-1652	Gasket Kit	(1)	6630M	Main Bearing Set	(1)	3-1140RA	Connecting Rod Bearing Set
(1)	7245MA	Main Bearing Set	<b>205-6328</b>			(1)	260-1637	Gasket Kit
<b>205-632A</b>			(1)	E-522KC	Premium Piston Ring Set	(1)	6685M	Main Bearing Set
(1)	E-424K	Premium Piston Ring Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	1063AF	Thrust Washer Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	260-1704	Gasket Kit	<b>205-6348</b>		
(1)	260-1001	Gasket Kit	<b>205-6328M</b>			(1)	E-550KC	Premium Piston Ring Set
<b>205-632AM</b>			(1)	E-522KC	Premium Piston Ring Set	(1)	3-1140RA	Connecting Rod Bearing Set
(1)	E-424K	Premium Piston Ring Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	260-1640	Gasket Kit
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	260-1704	Gasket Kit	<b>205-6348M</b>		
(1)	260-1001	Gasket Kit	(1)	5103M	Main Bearing Set	(1)	E-550KC	Premium Piston Ring Set
(1)	5025MA	Main Bearing Set	<b>205-6335</b>			(1)	3-1140RA	Connecting Rod Bearing Set
<b>205-632M</b>			(1)	E-524KC	Premium Piston Ring Set	(1)	260-1640	Gasket Kit
(1)	E-424K	Premium Piston Ring Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	6685M	Main Bearing Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	260-1709	Gasket Kit	(1)	1063AF	Thrust Washer Set
(1)	260-1001	Gasket Kit	<b>205-6335M</b>			<b>205-6349</b>		
(1)	4924MA	Main Bearing Set	(1)	E-524KC	Premium Piston Ring Set	(1)	E-549KC	Premium Piston Ring Set
<b>205-6320</b>			(1)	4-3485CP	Connecting Rod Bearing Set	(1)	3-1140RA	Connecting Rod Bearing Set
(1)	E-475KC	Premium Piston Ring Set	(1)	260-1709	Gasket Kit	(1)	260-1640	Gasket Kit
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	5103M	Main Bearing Set	<b>205-6349M</b>		
(1)	260-1090	Gasket Kit	<b>205-6339</b>			(1)	E-549KC	Premium Piston Ring Set
<b>205-6320AM</b>			(1)	E-471K	Premium Piston Ring Set	(1)	3-1140RA	Connecting Rod Bearing Set
(1)	E-475KC	Premium Piston Ring Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1640	Gasket Kit
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	6685M	Main Bearing Set	(1)	1063AF	Thrust Washer Set
(1)	260-1090	Gasket Kit	(1)	260-1612	Gasket Kit	<b>205-6350</b>		
(1)	6631M	Main Bearing Set	<b>205-6339M</b>			(1)	E-547KC 1.00MM	Premium Piston Ring Set
(1)	3571BF	Thrust Washer Set	(1)	E-471K	Premium Piston Ring Set	(1)	4-4455RA	Connecting Rod Bearing Set
<b>205-6320M</b>			(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	260-1638	Gasket Kit
(1)	E-475KC	Premium Piston Ring Set	(1)	260-1612	Gasket Kit	<b>205-6352</b>		
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	7086MA	Main Bearing Set	(1)	E-539KC	Premium Piston Ring Set
(1)	260-1090	Gasket Kit	<b>205-634</b>			(1)	4-1490CPA	Connecting Rod Bearing Set
(1)	5028M	Main Bearing Set	(1)	E-288K	Premium Piston Ring Set	(1)	260-1643	Gasket Kit
(1)	3571BF	Thrust Washer Set	(1)	8-2500RAA	Connecting Rod Bearing Set	<b>205-6352M</b>		
<b>205-6323</b>			(1)	260-1012	Gasket Kit	(1)	E-539KC	Premium Piston Ring Set
(1)	E-516KC	Premium Piston Ring Set	<b>205-634M</b>			(1)	4-1490CPA	Connecting Rod Bearing Set
(1)	4-3955RA	Connecting Rod Bearing Set	(1)	E-288K	Premium Piston Ring Set	(1)	260-1643	Gasket Kit
(1)	260-1701	Gasket Kit	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	7108M	Main Bearing Set
<b>205-6323M</b>			(1)	260-1012	Gasket Kit	<b>205-6356</b>		
(1)	E-516KC	Premium Piston Ring Set	(1)	4418M	Main Bearing Set	(1)	E-534K	Premium Piston Ring Set
(1)	4-3955RA	Connecting Rod Bearing Set	<b>205-6345M</b>			(1)	8-3870RA	Connecting Rod Bearing Set
(1)	260-1701	Gasket Kit	(1)	E-458K	Premium Piston Ring Set	(1)	260-1475	Gasket Kit
(1)	6630M	Main Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	<b>205-6356M</b>		
<b>205-6324</b>			(1)	260-1559	Gasket Kit	(1)	E-534K	Premium Piston Ring Set
(1)	E-516KC	Premium Piston Ring Set	(1)	4125MA	Main Bearing Set	(1)	8-3870RA	Connecting Rod Bearing Set
(1)	4-4475RA	Connecting Rod Bearing Set	<b>205-6346</b>			(1)	260-1475	Gasket Kit
(1)	260-1701	Gasket Kit	(1)	E-550KC	Premium Piston Ring Set	(1)	7256MA	Main Bearing Set
(1)	4-4475RA	Connecting Rod Bearing Set	(1)	3-1140RA	Connecting Rod Bearing Set	<b>205-6361</b>		
(1)	260-1701	Gasket Kit	(1)	260-1637	Gasket Kit	(1)	E-599KC	Premium Piston Ring Set
<b>205-6324M</b>			(cont'd. next column)			(cont'd. next column)		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6415M</b>			<b>205-651M</b>			<b>205-661M</b>			<b>205-6750A (cont'd.)</b>		
(1)	E-532K	Premium Piston Ring Set	(1)	E-377K	Premium Piston Ring Set	(1)	E-243K	Premium Piston Ring Set	(1)	4-4450P	Connecting Rod Bearing Set
(1)	6-3760A	Connecting Rod Bearing Set	(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	260-1750	Gasket Kit
(1)	260-1566	Gasket Kit	(1)	260-1122	Gasket Kit	(1)	260-1009	Gasket Kit			
(1)	7144MA	Main Bearing Set	(1)	5092M	Main Bearing Set	(1)	4400MA	Main Bearing Set			
<b>205-642</b>			<b>205-652</b>			<b>205-662</b>			<b>205-6750AM</b>		
(1)	E-318K	Premium Piston Ring Set	(1)	E-351KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-609KC	Premium Piston Ring Set
(1)	8-2320CP	Connecting Rod Bearing Set	(1)	6-3055CP	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	4-4450P	Connecting Rod Bearing Set
(1)	260-1001	Gasket Kit	(1)	260-1127	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1750	Gasket Kit
									(1)	6622MA	Main Bearing Set
<b>205-6420</b>			<b>205-653</b>			<b>205-662M</b>			<b>205-676</b>		
(1)	E-556KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-273K	Premium Piston Ring Set
(1)	4-1825CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2020CP	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set
(1)	260-1733	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1050	Gasket Kit
<b>205-6420M</b>			<b>205-653M</b>			<b>205-667</b>			<b>205-6779E</b>		
(1)	E-556KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-456KC	Premium Piston Ring Set
(1)	4-1825CP	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set
(1)	260-1733	Gasket Kit	(1)	260-1125	Gasket Kit	(1)	260-1001	Gasket Kit	(1)	260-1779	Gasket Kit
(1)	7103M	Main Bearing Set	(1)	4125MA	Main Bearing Set						
<b>205-6423</b>			<b>205-655</b>			<b>205-670</b>			<b>205-6779EM</b>		
(1)	E-556KC	Premium Piston Ring Set	(1)	E-318K	Premium Piston Ring Set	(1)	E-270K	Premium Piston Ring Set	(1)	E-456KC	Premium Piston Ring Set
(1)	4-1825CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set	(1)	4-1025PA	Connecting Rod Bearing Set
(1)	260-1734	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1075	Gasket Kit	(1)	260-1779	Gasket Kit
									(1)	6680MA	Main Bearing Set
<b>205-6423M</b>			<b>205-656</b>			<b>205-670M</b>			<b>205-6784</b>		
(1)	E-556KC	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-270K	Premium Piston Ring Set	(1)	E-558KC	Premium Piston Ring Set
(1)	4-1825CP	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set	(1)	6-1845CP	Connecting Rod Bearing Set
(1)	260-1734	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1075	Gasket Kit	(1)	260-1784	Gasket Kit
(1)	7103M	Main Bearing Set				(1)	4070M	Main Bearing Set			
<b>205-6432</b>			<b>205-656M</b>			<b>205-6704</b>			<b>205-6784M</b>		
(1)	E-515KC	Premium Piston Ring Set	(1)	E-424K	Premium Piston Ring Set	(1)	E-742KC	Premium Piston Ring Set	(1)	E-558KC	Premium Piston Ring Set
(1)	4-4470P	Connecting Rod Bearing Set	(1)	8-2320CP	Connecting Rod Bearing Set	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	6-1845CP	Connecting Rod Bearing Set
(1)	260-1485	Gasket Kit	(1)	260-1043	Gasket Kit	(1)	260-1704	Gasket Kit	(1)	260-1784	Gasket Kit
			(1)	5025MA	Main Bearing Set	(1)	260-1704	Gasket Kit	(1)	7099M	Main Bearing Set
<b>205-6432M</b>			<b>205-657</b>			<b>205-6704M</b>			<b>205-6785</b>		
(1)	E-515KC	Premium Piston Ring Set	(1)	E-359KC	Premium Piston Ring Set	(1)	E-742KC	Premium Piston Ring Set	(1)	E-525KC	Premium Piston Ring Set
(1)	4-4470P	Connecting Rod Bearing Set	(4)	3665P	Connecting Rod Bearing Pair	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	6-1845CP	Connecting Rod Bearing Set
(1)	260-1485	Gasket Kit	(1)	260-1021	Gasket Kit	(1)	260-1704	Gasket Kit	(1)	260-1785	Gasket Kit
(1)	7102M	Main Bearing Set				(1)	5103M	Main Bearing Set			
(1)	1826AF	Thrust Washer Set									
<b>205-646</b>			<b>205-658</b>			<b>205-671</b>			<b>205-6785M</b>		
(1)	E-352K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-404K	Premium Piston Ring Set	(1)	E-525KC	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set	(1)	6-1845CP	Connecting Rod Bearing Set
(1)	260-1018	Gasket Kit	(1)	260-1045	Gasket Kit	(1)	260-1076	Gasket Kit	(1)	260-1785	Gasket Kit
									(1)	7099M	Main Bearing Set
<b>205-646M</b>			<b>205-658M</b>			<b>205-672</b>			<b>205-679</b>		
(1)	E-352K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-261K	Premium Piston Ring Set	(1)	E-300K	Premium Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-2555A	Connecting Rod Bearing Set	(8)	3230CP	Connecting Rod Bearing Pair	(1)	8-1555CPA	Connecting Rod Bearing Set
(1)	260-1018	Gasket Kit	(1)	260-1045	Gasket Kit	(1)	260-1035	Gasket Kit	(1)	260-1025	Gasket Kit
(1)	4979M	Main Bearing Set	(1)	4663MA	Main Bearing Set						
<b>205-649</b>			<b>205-660</b>			<b>205-673</b>			<b>205-681</b>		
(1)	E-358K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-404K	Premium Piston Ring Set	(1)	E-418K	Premium Piston Ring Set
(1)	4-3665P	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1021	Gasket Kit	(1)	260-1046	Gasket Kit	(1)	260-1050	Gasket Kit	(1)	260-1093	Gasket Kit
<b>205-649M</b>			<b>205-660M</b>			<b>205-674</b>			<b>205-681M</b>		
(1)	E-358K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set	(1)	E-243K	Premium Piston Ring Set	(1)	E-418K	Premium Piston Ring Set
(1)	4-3665P	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-3345P	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set
(1)	260-1021	Gasket Kit	(1)	260-1046	Gasket Kit	(1)	260-1008	Gasket Kit	(1)	260-1093	Gasket Kit
(1)	5060M	Main Bearing Set	(1)	4400MA	Main Bearing Set				(1)	6678MA	Main Bearing Set
<b>205-651</b>			<b>205-661</b>			<b>205-675</b>			<b>205-6812</b>		
(1)	E-377K	Premium Piston Ring Set	(1)	E-243K	Premium Piston Ring Set	(1)	E-273K	Premium Piston Ring Set	(1)	E-515KC	Premium Piston Ring Set
(1)	8-2500RAA	Connecting Rod Bearing Set	(1)	8-3190A	Connecting Rod Bearing Set	(1)	8-2410CP	Connecting Rod Bearing Set	(1)	4-4190CP	Connecting Rod Bearing Set
(1)	260-1122	Gasket Kit	(1)	260-1009	Gasket Kit	(1)	260-1076	Gasket Kit	(1)	260-1812	Gasket Kit
						<b>205-6750A</b>			<b>205-6812M</b>		
						(1)	E-609KC	Premium Piston Ring Set (cont'd. next column)	(1)	E-515KC	Premium Piston Ring Set (cont'd. next page)



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-6812M</b> (cont'd.)			<b>205-6878</b>			<b>205-6890M</b>			<b>205-713M</b>		
(1)	4-4190CP	Connecting Rod Bearing Set	(1)	E-616KC	Premium Piston Ring Set	(1)	E-558KC	Premium Piston Ring Set	(1)	E-286K	Premium Piston Ring Set
(1)	260-1812	Gasket Kit	(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	6-4605P	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	7208M	Main Bearing Set	(1)	260-1767	Gasket Kit	(1)	260-1804	Gasket Kit	(1)	260-1121	Gasket Kit
						(1)	7322M	Main Bearing Set	(1)	4923MA	Main Bearing Set
<b>205-683A</b>			<b>205-6878M</b>			<b>205-691</b>			<b>205-714</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-616KC	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1095	Gasket Kit	(1)	260-1767	Gasket Kit	(1)	260-1032	Gasket Kit	(1)	260-1128	Gasket Kit
			(1)	6631M	Main Bearing Set						
<b>205-683AM</b>			<b>205-6880</b>			<b>205-691M</b>			<b>205-715</b>		
(1)	E-251K	Premium Piston Ring Set	(1)	E-542K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	E-301K	Premium Piston Ring Set
(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3975P	Connecting Rod Bearing Set	(1)	6-2500RAA	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set
(1)	260-1095	Gasket Kit	(1)	260-1766	Gasket Kit	(1)	260-1032	Gasket Kit	(1)	260-1151	Gasket Kit
(1)	4999MA	Main Bearing Set				(1)	7144MA	Main Bearing Set			
<b>205-6858</b>			<b>205-6880M</b>			<b>205-6910</b>			<b>205-715M</b>		
(1)	E-615KC	Premium Piston Ring Set	(1)	E-542K	Premium Piston Ring Set	(1)	E-544KC	Premium Piston Ring Set	(1)	E-301K	Premium Piston Ring Set
(1)	4-4175CP	Connecting Rod Bearing Set	(1)	4-3975P	Connecting Rod Bearing Set	(1)	4-4210CP	Connecting Rod Bearing Set	(1)	8-3310CPA	Connecting Rod Bearing Set
(1)	260-1853	Gasket Kit	(1)	260-1766	Gasket Kit	(1)	260-1770	Gasket Kit	(1)	260-1151	Gasket Kit
			(1)	6692M	Main Bearing Set				(1)	5037M	Main Bearing Set
<b>205-6858M</b>			<b>205-6882</b>			<b>205-6910M</b>			<b>205-716</b>		
(1)	E-615KC	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set	(1)	E-544KC	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set
(1)	4-4175CP	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set	(1)	4-4210CP	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1853	Gasket Kit	(1)	260-1839	Gasket Kit	(1)	260-1770	Gasket Kit	(1)	260-1134	Gasket Kit
(1)	7204M	Main Bearing Set				(1)	7218M	Main Bearing Set			
<b>205-686</b>			<b>205-6882M</b>			<b>205-692</b>			<b>205-716M</b>		
(1)	E-232K	Premium Piston Ring Set	(1)	E-528KC	Premium Piston Ring Set	(1)	E-414K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-1735CP	Connecting Rod Bearing Set	(1)	6-3750P	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1839	Gasket Kit	(1)	260-1101	Gasket Kit	(1)	260-1134	Gasket Kit
			(1)	7090M	Main Bearing Set				(1)	4289M	Main Bearing Set
<b>205-686M</b>			<b>205-6883</b>			<b>205-692M</b>			<b>205-717A</b>		
(1)	E-232K	Premium Piston Ring Set	(1)	E-618KC	Premium Piston Ring Set	(1)	E-414K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	8-3190A	Connecting Rod Bearing Set	(1)	6-4915P	Connecting Rod Bearing Set	(1)	6-3750P	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1009	Gasket Kit	(1)	260-1799	Gasket Kit	(1)	260-1101	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	4400MA	Main Bearing Set				(1)	5085MA	Main Bearing Set			
<b>205-6861</b>			<b>205-6883M</b>			<b>205-694</b>			<b>205-717AM</b>		
(1)	E-542K	Premium Piston Ring Set	(1)	E-618KC	Premium Piston Ring Set	(1)	E-236K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	4-3975P	Connecting Rod Bearing Set	(1)	6-4915P	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1765	Gasket Kit	(1)	260-1799	Gasket Kit	(1)	260-1103	Gasket Kit	(1)	260-1153	Gasket Kit
			(1)	7407M	Main Bearing Set				(1)	5024MA	Main Bearing Set
<b>205-6861M</b>			<b>205-6885</b>			<b>205-695</b>			<b>205-717M</b>		
(1)	E-542K	Premium Piston Ring Set	(1)	E-559KC	Premium Piston Ring Set	(1)	E-378K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	4-3975P	Connecting Rod Bearing Set	(1)	4-4460P	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1765	Gasket Kit	(1)	260-1754	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1153	Gasket Kit
(1)	6692M	Main Bearing Set	(1)	7285M	Main Bearing Set				(1)	4923MA	Main Bearing Set
<b>205-6874</b>			<b>205-6885M</b>			<b>205-695M</b>			<b>205-718</b>		
(1)	E-646KC	Premium Piston Ring Set	(1)	E-559KC	Premium Piston Ring Set	(1)	E-378K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-4460P	Connecting Rod Bearing Set	(1)	8-3045A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1760	Gasket Kit	(1)	260-1754	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1152	Gasket Kit
			(1)	7285M	Main Bearing Set	(1)	4281M	Main Bearing Set			
<b>205-6874M</b>			<b>205-6886</b>			<b>205-699</b>			<b>205-718AM</b>		
(1)	E-646KC	Premium Piston Ring Set	(1)	E-559KC	Premium Piston Ring Set	(1)	E-411K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	4-1495CP	Connecting Rod Bearing Set	(1)	4-4460P	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1760	Gasket Kit	(1)	260-1795	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	7324M	Main Bearing Set				(1)	5095MA	Main Bearing Set			
<b>205-6875</b>			<b>205-6886M</b>			<b>205-699M</b>			<b>205-718M</b>		
(1)	E-617K	Premium Piston Ring Set	(1)	E-559KC	Premium Piston Ring Set	(1)	E-411K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	4-4595P	Connecting Rod Bearing Set	(1)	4-4460P	Connecting Rod Bearing Set	(1)	6-4020A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set
(1)	260-1768	Gasket Kit	(1)	260-1795	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1152	Gasket Kit
			(1)	7285M	Main Bearing Set	(1)	5090MA	Main Bearing Set	(1)	5024MA	Main Bearing Set
<b>205-6875M</b>			<b>205-6890</b>			<b>205-713</b>			<b>205-720</b>		
(1)	E-617K	Premium Piston Ring Set	(1)	E-558KC	Premium Piston Ring Set	(1)	E-286K	Premium Piston Ring Set	(1)	E-427K	Premium Piston Ring Set
(1)	4-4595P	Connecting Rod Bearing Set	(1)	6-4605P	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3665P	Connecting Rod Bearing Set
(1)	260-1768	Gasket Kit	(1)	260-1804	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1021	Gasket Kit
(1)	7320M	Main Bearing Set									

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-720M</b>			<b>205-739M</b>			<b>205-752</b>			<b>205-761M</b>		
(1)	E-427K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	4-3665P	Connecting Rod Bearing Set	(1)	6-2020CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set
(1)	260-1021	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1161	Gasket Kit	(1)	260-1170	Gasket Kit
(1)	5060M	Main Bearing Set	(1)	4124MA	Main Bearing Set				(1)	5078MA	Main Bearing Set
<b>205-724</b>			<b>205-743</b>			<b>205-752M</b>			<b>205-763</b>		
(1)	E-369K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1149	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1161	Gasket Kit	(1)	260-1172	Gasket Kit
(1)			(1)			(1)	4979M	Main Bearing Set			
<b>205-724M</b>			<b>205-743M</b>			<b>205-753</b>			<b>205-763M</b>		
(1)	E-369K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1149	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1162	Gasket Kit	(1)	260-1172	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	5024MA	Main Bearing Set				(1)	4979M	Main Bearing Set
<b>205-725</b>			<b>205-744A</b>			<b>205-753M</b>			<b>205-765</b>		
(1)	E-369K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set	(1)	6-3150CPA	Connecting Rod Bearing Set
(1)	260-1138	Gasket Kit	(1)	260-1154	Gasket Kit	(1)	260-1162	Gasket Kit	(1)	260-1174	Gasket Kit
(1)			(1)			(1)	4979M	Main Bearing Set			
<b>205-725M</b>			<b>205-744AM</b>			<b>205-754</b>			<b>205-765M</b>		
(1)	E-369K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-441K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	8-2130CP	Connecting Rod Bearing Set	(4)	3545A	Connecting Rod Bearing Pair	(1)	6-3150CPA	Connecting Rod Bearing Set
(1)	260-1138	Gasket Kit	(1)	260-1154	Gasket Kit	(1)	260-1162	Gasket Kit	(1)	260-1174	Gasket Kit
(1)	7144MA	Main Bearing Set	(1)	5024MA	Main Bearing Set				(1)	4916M	Main Bearing Set
<b>205-727A</b>			<b>205-745</b>			<b>205-754M</b>			<b>205-768</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-425KC 1.00MM	Premium Piston Ring Set	(1)	E-441K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(4)	3545A	Connecting Rod Bearing Pair	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1143	Gasket Kit	(1)	260-1155	Gasket Kit	(1)	260-1162	Gasket Kit	(1)	260-1177	Gasket Kit
(1)			(1)			(1)	4979M	Main Bearing Set			
<b>205-727AM</b>			<b>205-745M</b>			<b>205-757</b>			<b>205-768M</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-425KC 1.00MM	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set	(1)	E-296K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	8-3360CPA	Connecting Rod Bearing Set
(1)	260-1143	Gasket Kit	(1)	260-1155	Gasket Kit	(1)	260-1166	Gasket Kit	(1)	260-1177	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)	6618M	Main Bearing Set				(1)	4907M	Main Bearing Set
<b>205-727M</b>			<b>205-746</b>			<b>205-757M</b>			<b>205-769A</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-425KC 1.00MM	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1143	Gasket Kit	(1)	260-1156	Gasket Kit	(1)	260-1166	Gasket Kit	(1)	260-1178	Gasket Kit
(1)	5090MA	Main Bearing Set	(1)			(1)	7295MA	Main Bearing Set			
<b>205-728A</b>			<b>205-746M</b>			<b>205-758</b>			<b>205-769AM</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-425KC 1.00MM	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1144	Gasket Kit	(1)	260-1156	Gasket Kit	(1)	260-1167	Gasket Kit	(1)	260-1178	Gasket Kit
(1)			(1)	6618M	Main Bearing Set				(1)	6689MA	Main Bearing Set
<b>205-728AM</b>			<b>205-747</b>			<b>205-758M</b>			<b>205-770</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-439KC	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1144	Gasket Kit	(1)	260-1156	Gasket Kit	(1)	260-1167	Gasket Kit	(1)	260-1179	Gasket Kit
(1)	7242MA	Main Bearing Set	(1)			(1)	7295MA	Main Bearing Set			
<b>205-728M</b>			<b>205-747M</b>			<b>205-760</b>			<b>205-770M</b>		
(1)	E-432K	Premium Piston Ring Set	(1)	E-439KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-384K	Premium Piston Ring Set
(1)	6-4020A	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2500RAA	Connecting Rod Bearing Set
(1)	260-1144	Gasket Kit	(1)	260-1156	Gasket Kit	(1)	260-1169	Gasket Kit	(1)	260-1179	Gasket Kit
(1)	5090MA	Main Bearing Set	(1)	6618M	Main Bearing Set				(1)	6690MA	Main Bearing Set
<b>205-738</b>			<b>205-750</b>			<b>205-760M</b>			<b>205-771</b>		
(1)	E-289K	Premium Piston Ring Set	(1)	E-439KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-429K	Premium Piston Ring Set
(1)	8-3320CP	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1150	Gasket Kit	(1)	260-1155	Gasket Kit	(1)	260-1169	Gasket Kit	(1)	260-1180	Gasket Kit
(1)			(1)			(1)	4125MA	Main Bearing Set			
<b>205-739</b>			<b>205-750M</b>			<b>205-761</b>			<b>205-771M</b>		
(1)	E-234K	Premium Piston Ring Set	(1)	E-439KC	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-429K	Premium Piston Ring Set
(1)	6-2020CP	Connecting Rod Bearing Set	(1)	4-66675P	Connecting Rod Bearing Set	(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-2020CP	Connecting Rod Bearing Set
(1)	260-1129	Gasket Kit	(1)	260-1155	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1180	Gasket Kit
(1)			(1)	6618M	Main Bearing Set				(1)	5138MA	Main Bearing Set

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	<b>205-772</b>			<b>205-854</b> (cont'd.)			<b>205-868M</b>			<b>205-878</b>	
(1)	E-369K	Premium Piston Ring Set	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	E-453K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	260-1188	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1181	Gasket Kit				(1)	260-1276	Gasket Kit	(1)	260-1206	Gasket Kit
	<b>205-773</b>			<b>205-854M</b>		(1)	6678MA	Main Bearing Set		<b>205-878M</b>	
(1)	E-369K	Premium Piston Ring Set	(1)	E-416KC	Premium Piston Ring Set	(1)	205-869		(1)	E-442KC	Premium Piston Ring Set
(1)	6-3755A	Connecting Rod Bearing Set	(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1182	Gasket Kit	(1)	260-1188	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	260-1206	Gasket Kit
	<b>205-774A</b>			<b>205-856</b>		(1)	260-1093	Gasket Kit	(1)	4979M	Main Bearing Set
(1)	E-251K	Premium Piston Ring Set	(1)	E-409KC	Premium Piston Ring Set	(1)	205-869M		(1)	E-441K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-4005P	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1189	Gasket Kit	(1)	260-1186	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	260-1206	Gasket Kit
	<b>205-774AM</b>			<b>205-856M</b>		(1)	260-1093	Gasket Kit		<b>205-879M</b>	
(1)	E-251K	Premium Piston Ring Set	(1)	E-409KC	Premium Piston Ring Set	(1)	6678MA	Main Bearing Set	(1)	E-441K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-4005P	Connecting Rod Bearing Set	(1)	205-870		(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1189	Gasket Kit	(1)	260-1186	Gasket Kit	(1)	E-454K	Premium Piston Ring Set	(1)	260-1206	Gasket Kit
(1)	5078MA	Main Bearing Set	(1)	5027M	Main Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	4979M	Main Bearing Set
	<b>205-774M</b>			<b>205-858</b>		(1)	260-1200	Gasket Kit		<b>205-880</b>	
(1)	E-251K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	205-870M		(1)	E-441K	Premium Piston Ring Set
(1)	8-3380A	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	E-454K	Premium Piston Ring Set	(1)	4-3545A	Connecting Rod Bearing Set
(1)	260-1189	Gasket Kit	(1)	260-1191	Gasket Kit	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	260-1162	Gasket Kit
(1)	5107M	Main Bearing Set				(1)	260-1200	Gasket Kit		<b>205-880M</b>	
	<b>205-805</b>			<b>205-858M</b>		(1)	6678MA	Main Bearing Set	(1)	E-441K	Premium Piston Ring Set
(1)	E-360KC	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	205-871		(1)	4-3545A	Connecting Rod Bearing Set
(1)	4-67275CP	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	E-439KC	Premium Piston Ring Set	(1)	260-1162	Gasket Kit
(1)	260-1062	Gasket Kit	(1)	260-1191	Gasket Kit	(1)	4-66675P	Connecting Rod Bearing Set	(1)	4979M	Main Bearing Set
	<b>205-812</b>			<b>205-859</b>		(1)	260-1201	Gasket Kit		<b>205-882</b>	
(1)	E-360KC	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	205-871M		(1)	E-465K	Premium Piston Ring Set
(1)	4-67230CP	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	E-439KC	Premium Piston Ring Set	(1)	4-2380CP	Connecting Rod Bearing Set
(1)	260-1060	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	4-66675P	Connecting Rod Bearing Set	(1)	260-1208	Gasket Kit
	<b>205-829</b>			<b>205-859M</b>		(1)	6618M	Main Bearing Set		<b>205-882M</b>	
(1)	E-357KC	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	205-874		(1)	E-465K	Premium Piston Ring Set
(1)	4-3570CPB	Connecting Rod Bearing Set	(1)	4-3310CPA	Connecting Rod Bearing Set	(1)	E-452KC	Premium Piston Ring Set	(1)	4-2380CP	Connecting Rod Bearing Set
(1)	260-1090	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	260-1208	Gasket Kit
	<b>205-830</b>			<b>205-860</b>		(1)	260-1199	Gasket Kit	(1)	5130M	Main Bearing Set
(1)	E-416KC	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	205-874M		(1)	E-465K	Premium Piston Ring Set
(1)	4-3960CPA	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	E-452KC	Premium Piston Ring Set	(1)	4-1035CP	Connecting Rod Bearing Set
(1)	260-1091	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	4-3485CP	Connecting Rod Bearing Set	(1)	260-1208	Gasket Kit
	<b>205-838</b>			<b>205-860M</b>		(1)	260-1199	Gasket Kit		<b>205-883M</b>	
(1)	E-409KC	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	5103M	Main Bearing Set	(1)	E-465K	Premium Piston Ring Set
(1)	4-4005P	Connecting Rod Bearing Set	(1)	6-3310CPA	Connecting Rod Bearing Set	(1)	205-875		(1)	4-1035CP	Connecting Rod Bearing Set
(1)	260-1112	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	E-455KC	Premium Piston Ring Set	(1)	260-1208	Gasket Kit
	<b>205-838M</b>			<b>205-861</b>		(1)	4-3485CP	Connecting Rod Bearing Set	(1)	5130M	Main Bearing Set
(1)	E-409KC	Premium Piston Ring Set	(1)	E-370KC .50MM	Premium Piston Ring Set	(1)	260-1199	Gasket Kit	(1)	205-886	
(1)	4-4005P	Connecting Rod Bearing Set	(1)	4-3955RA	Connecting Rod Bearing Set	(1)	5103M	Main Bearing Set	(1)	E-415K	Premium Piston Ring Set
(1)	260-1112	Gasket Kit	(1)	260-1194	Gasket Kit	(1)	205-875M		(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	5027M	Main Bearing Set	(1)	205-861M		(1)	E-455KC	Premium Piston Ring Set	(1)	260-1211	Gasket Kit
(1)	3567AF	Thrust Washer Set	(1)	E-370KC .50MM	Premium Piston Ring Set	(1)	4-3485CP	Connecting Rod Bearing Set		<b>205-886M</b>	
	<b>205-843</b>			<b>205-861M</b>		(1)	260-1199	Gasket Kit	(1)	E-415K	Premium Piston Ring Set
(1)	E-360KC	Premium Piston Ring Set	(1)	E-370KC .50MM	Premium Piston Ring Set	(1)	5103M	Main Bearing Set	(1)	6-3830CPA	Connecting Rod Bearing Set
(1)	4-67230CP	Connecting Rod Bearing Set	(1)	4-3955RA	Connecting Rod Bearing Set	(1)	205-876		(1)	260-1211	Gasket Kit
(1)	260-1159	Gasket Kit	(1)	260-1194	Gasket Kit	(1)	E-469KC	Premium Piston Ring Set	(1)	7295MA	Main Bearing Set
	<b>205-852</b>			<b>205-868</b>		(1)	4-3805A	Connecting Rod Bearing Set		<b>205-888</b>	
(1)	E-436KC	Premium Piston Ring Set	(1)	E-453K	Premium Piston Ring Set	(1)	260-1205	Gasket Kit	(1)	E-251K	Premium Piston Ring Set
(1)	4-67275CP	Connecting Rod Bearing Set	(1)	4-3800CPA	Connecting Rod Bearing Set	(1)	6695MA	Main Bearing Set	(1)	8-2600A	Connecting Rod Bearing Set
(1)	260-1062	Gasket Kit	(1)	260-1276	Gasket Kit				(1)	260-1213A	Gasket Kit
	<b>205-854</b>										
(1)	E-416KC	Premium Piston Ring Set (cont'd. next column)									

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>205-888M</b>			<b>505-1007A</b>			<b>505-1019A</b> (cont'd.)			<b>505-1026C</b> (cont'd.)		
(1)	E-251K	Premium Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	260-1239	Gasket Kit	(1)	1235M	Camshaft Bearing Set
(1)	8-2600A	Connecting Rod Bearing Set	(1)	260-1228	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	KC-793	Cam & Lifter Kit
(1)	260-1213A	Gasket Kit	(1)	1461M	Camshaft Bearing Set	(1)	KC-756	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.
(1)	4125MA	Main Bearing Set	(1)	KC-782	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump
<b>205-890</b>			<b>505-1008A</b>			<b>505-102A</b>			<b>505-1026E</b>		
(1)	E-248K	Premium Piston Ring Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set
(8)	3230CP	Connecting Rod Bearing Pair	(1)	260-1229	Gasket Kit	(1)	260-1004	Gasket Kit	(1)	260-1246	Gasket Kit
(1)	260-1035	Gasket Kit	(1)	1756M	Camshaft Bearing Set	(1)	1454M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
<b>205-891</b>			<b>505-1009A</b>			<b>505-1020A</b>			<b>505-1027A</b>		
(1)	E-476K	Premium Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1230	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1247	Gasket Kit
(1)	260-1214	Gasket Kit	(1)	1202M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
<b>205-891M</b>			<b>505-1010A</b>			<b>505-1021A</b>			<b>505-1027C</b>		
(1)	E-476K	Premium Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1230	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1247	Gasket Kit
(1)	260-1214	Gasket Kit	(1)	1202M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	4979M	Main Bearing Set	(1)	KC-708A	Cam & Lifter Kit	(1)	KC-756	Cam & Lifter Kit	(1)	KC-793	Cam & Lifter Kit
<b>205-896</b>			<b>505-1011A</b>			<b>505-1022A</b>			<b>505-103C</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1231	Gasket Kit	(1)	260-1244	Gasket Kit	(1)	260-1004	Gasket Kit
(1)	260-1218	Gasket Kit	(1)	1202M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
<b>205-896M</b>			<b>505-1012A</b>			<b>505-1023A</b>			<b>505-1036A</b>		
(1)	E-442KC	Premium Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-217X	Standard Piston Ring Set
(1)	4-3545A	Connecting Rod Bearing Set	(1)	260-1231	Gasket Kit	(1)	260-1244	Gasket Kit	(1)	260-1267	Gasket Kit
(1)	260-1218	Gasket Kit	(1)	1202M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	4979M	Main Bearing Set	(1)	KC-708A	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit	(1)	KC-551	Cam & Lifter Kit
<b>205-897</b>			<b>505-1013C</b>			<b>505-1024C</b>			<b>505-1037A</b>		
(1)	E-351KC	Premium Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1232	Gasket Kit	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit
(1)	260-1219	Gasket Kit	(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
<b>205-897M</b>			<b>505-1014A</b>			<b>505-1024D</b>			<b>505-1037C</b>		
(1)	E-351KC	Premium Piston Ring Set	(1)	KC-1539	Cam & Lifter Kit	(1)	E-356X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	260-1243	Gasket Kit	(1)	260-1268	Gasket Kit
(1)	260-1219	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	6101MA	Main Bearing Set	(1)	224-4148	Oil Pump	(1)	KC-711	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
<b>205-898</b>			<b>505-1015E</b>			<b>505-1026A</b>			<b>505-104A</b>		
(1)	E-481K	Premium Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1236	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	260-1220	Gasket Kit	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
<b>205-898M</b>			<b>505-1016A</b>			<b>505-1026C</b>			<b>505-104A</b>		
(1)	E-481K	Premium Piston Ring Set	(1)	E-478X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	6-3055CP	Connecting Rod Bearing Set	(1)	260-1233	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	260-1220	Gasket Kit	(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
(1)	6101MA	Main Bearing Set	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	1473M	Camshaft Bearing Set
<b>505-1002A</b>			<b>505-1017A</b>			<b>505-1026C</b>			<b>505-104A</b>		
(1)	E-458X	Standard Piston Ring Set	(1)	E-478X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	260-1169	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	1204M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-668	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit	(1)	1473M	Camshaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	1473M	Camshaft Bearing Set
(1)	224-41118	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4146	Oil Pump	(1)	1473M	Camshaft Bearing Set
(8)	517CP	Cast Piston	(6)	531P	Cast Piston	(8)	534NP	Cast Piston	(1)	423NP	Cast Piston
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>505-1003A</b>			<b>505-1018A</b>			<b>505-1026C</b>			<b>505-104A</b>		
(1)	E-296X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	260-1223	Gasket Kit	(1)	260-1236	Gasket Kit	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	1414M	Camshaft Bearing Set	(1)	1755M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1473M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	KC-836	Cam & Lifter Kit	(1)	KC-766	Cam & Lifter Kit	(1)	1473M	Camshaft Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-359SA2	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	1473M	Camshaft Bearing Set
(1)	224-41144	Oil Pump	(1)	224-51379	Oil Pump Repair Kit	(1)	224-4146	Oil Pump	(1)	1473M	Camshaft Bearing Set
(8)	H418P	Cast Piston	(6)	450NP	Cast Piston	(8)	536NP	Cast Piston	(1)	423NP	Cast Piston
(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8073	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
<b>505-1003A</b>			<b>505-1019A</b>			<b>505-1026C</b>			<b>505-104A</b>		
(1)	E-296X	Standard Piston Ring Set	(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	260-1223	Gasket Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	1414M	Camshaft Bearing Set	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	224-41144	Oil Pump	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(8)	H418P	Cast Piston	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	381-8018	Brass Expansion Plug Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
<b>505-1003A</b>			<b>505-1019A</b>			<b>505-1026C</b>			<b>505-104A</b>		
(1)	E-296X	Standard Piston Ring Set	(1)	E-459X	Standard Piston Ring Set	(1)	E-356X	Standard Piston Ring Set	(1)	E-196X	Standard Piston Ring Set
(1)	260-1223	Gasket Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	260-1038	Gasket Kit
(1)	1414M	Camshaft Bearing Set	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	224-41144	Oil Pump	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(8)	H418P	Cast Piston	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set
(1)	381-8018	Brass Expansion Plug Kit	(1)	E-459X	Standard Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	1473M	Camshaft Bearing Set

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-104A</b> (cont'd.)			<b>505-1092A</b> (cont'd.)			<b>505-1107A</b>			<b>505-1114B</b> (cont'd.)		
(1)	KC-709	Cam & Lifter Kit	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	E-465X	Standard Piston Ring Set	(1)	1886M	Camshaft Bearing Set
(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	224-41198	Oil Pump	(1)	260-1437	Gasket Kit	(1)	KC-860	Cam & Lifter Kit
(1)	224-4165C	Oil Pump	(6)	677P	Cast Piston	(1)	1494M	Camshaft Bearing Set	(1)	KT3-365SA1	Timing Set - 3 Pc.
(6)	244NP	Cast Piston	<b>505-1093A</b>			(1)	KC-788	Cam & Lifter Kit	(1)	224-51380	Oil Pump Repair Kit
(1)	381-8012	Brass Expansion Plug Kit	(1)	E-454X	Standard Piston Ring Set	(1)	KT3-505S	Timing Set - 3 Pc.	(6)	H523P	Cast Piston
<b>505-106A</b>			(1)	260-1425	Gasket Kit	(1)	224-41100	Oil Pump	(1)	381-8053	Brass Expansion Plug Kit
(1)	E-217X	Standard Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set	<b>505-1110B</b>			<b>505-1114C</b>		
(1)	260-1005	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	E-446X	Standard Piston Ring Set	(1)	E-471X	Standard Piston Ring Set
(1)	1203M	Camshaft Bearing Set	(1)	222-153	Timing Belt	(1)	260-1210	Gasket Kit	(1)	260-1444	Gasket Kit
(1)	KC-551	Cam & Lifter Kit	(1)	224-4168	Oil Pump	(1)	1843M	Camshaft Bearing Set	(1)	1886M	Camshaft Bearing Set
(1)	221-2528S	Timing Gear Set	(4)	527P	Cast Piston	(1)	KC-787	Cam & Lifter Kit	(1)	KC-860	Cam & Lifter Kit
(1)	224-4147	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KT3-365SA1	Timing Set - 3 Pc.
(6)	H909P	Cast Piston	<b>505-1093C</b>			(1)	224-41101	Oil Pump	(1)	224-43567	Oil Pump
(1)	381-8006	Brass Expansion Plug Kit	(1)	E-454X	Standard Piston Ring Set	(6)	H497P	Cast Piston	(6)	H523P	Cast Piston
<b>505-106C</b>			(1)	260-1425	Gasket Kit	(1)	381-8072	Brass Expansion Plug Kit	<b>505-1115A</b>		
(1)	E-217X	Standard Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set	<b>505-1111A</b>			(1)	E-458X	Standard Piston Ring Set
(1)	260-1005	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	E-471X	Standard Piston Ring Set	(1)	260-1445	Gasket Kit
(1)	1557M	Camshaft Bearing Set	(1)	222-153	Timing Belt	(1)	260-1441	Gasket Kit	(1)	1204M	Camshaft Bearing Set
(1)	KC-551	Cam & Lifter Kit	(1)	224-4168	Oil Pump	(1)	1886M	Camshaft Bearing Set	(1)	KC-760	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	(4)	571CP	Cast Piston	(1)	KC-786	Cam & Lifter Kit	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	224-41118	Oil Pump
(6)	H909P	Cast Piston	<b>505-1097A</b>			(6)	H523P	Cast Piston	(8)	H606P	Cast Piston
(1)	381-8006	Brass Expansion Plug Kit	(1)	E-454X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
<b>505-107A</b>			(1)	260-1427	Gasket Kit	<b>505-1111C</b>			<b>505-1116A</b>		
(1)	E-217X	Standard Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	260-1044	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	260-1441	Gasket Kit	(1)	260-1446	Gasket Kit
(1)	1557M	Camshaft Bearing Set	(1)	222-132	Timing Belt	(1)	1886M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-551	Cam & Lifter Kit	(1)	224-4168	Oil Pump	(1)	KC-786	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit
(1)	221-2528S	Timing Gear Set	(4)	533P	Cast Piston	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.
(1)	224-4147	Oil Pump	(1)	381-8050	Brass Expansion Plug Kit	(1)	224-51380	Oil Pump Repair Kit	(1)	224-41143	Oil Pump
(6)	H909P	Cast Piston	<b>505-1098A</b>			(6)	H523P	Cast Piston	(8)	463P	Cast Piston
(1)	381-8006	Brass Expansion Plug Kit	(1)	E-536X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
<b>505-108A</b>			(1)	260-1428	Gasket Kit	<b>505-1112B</b>			<b>505-112C</b>		
(1)	E-219X	Standard Piston Ring Set	(1)	1790M	Camshaft Bearing Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set
(1)	260-1002	Gasket Kit	(1)	KC-842	Cam & Lifter Kit	(1)	260-1442	Gasket Kit	(1)	260-1006	Gasket Kit
(1)	1439M	Camshaft Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set
(1)	KC-448	Cam & Lifter Kit	(1)	224-4166	Oil Pump	(1)	KC-860	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit
(1)	KT3-351S	Timing Set - 3 Pc.	(6)	656P	Cast Piston	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set
(1)	224-41146	Oil Pump	(1)	381-8061	Brass Expansion Plug Kit	(1)	224-51380	Oil Pump Repair Kit	(1)	224-41124	Oil Pump
(6)	275NP	Cast Piston	<b>505-1098C</b>			(6)	H523P	Cast Piston	(6)	352NP	Cast Piston
(1)	381-8013	Brass Expansion Plug Kit	(1)	E-536X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit
<b>505-108D</b>			(1)	260-1428	Gasket Kit	<b>505-1112C</b>			<b>505-112D</b>		
(1)	E-219X	Standard Piston Ring Set	(1)	1790M	Camshaft Bearing Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set
(1)	260-1002	Gasket Kit	(1)	KC-829	Cam & Lifter Kit	(1)	260-1442	Gasket Kit	(1)	260-1006	Gasket Kit
(1)	1439M	Camshaft Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set
(1)	KC-658	Cam & Lifter Kit	(1)	224-4166	Oil Pump	(1)	KC-860	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit
(1)	KT3-351S	Timing Set - 3 Pc.	(6)	656P	Cast Piston	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2750LS	Timing Gear Set
(1)	224-41146	Oil Pump	(1)	381-8061	Brass Expansion Plug Kit	(1)	224-51380	Oil Pump Repair Kit	(1)	224-41124	Oil Pump
(6)	275NP	Cast Piston	<b>505-1099C</b>			(6)	H523P	Cast Piston	(6)	1109P	Cast Piston
(1)	381-8013	Brass Expansion Plug Kit	(1)	E-536X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit
<b>505-108E</b>			(1)	260-1428	Gasket Kit	<b>505-1113B</b>			<b>505-112E</b>		
(1)	E-219X	Standard Piston Ring Set	(1)	1790M	Camshaft Bearing Set	(1)	E-471X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set
(1)	260-1002	Gasket Kit	(1)	KC-829	Cam & Lifter Kit	(1)	260-1443	Gasket Kit	(1)	260-1006	Gasket Kit
(1)	1439M	Camshaft Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	1886M	Camshaft Bearing Set	(1)	1450M	Camshaft Bearing Set
(1)	KC-658	Cam & Lifter Kit	(1)	224-4166	Oil Pump	(1)	KC-860	Cam & Lifter Kit	(1)	KC-1230	Cam & Lifter Kit
(1)	KT3-351S	Timing Set - 3 Pc.	(6)	656P	Cast Piston	(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	221-2764S	Timing Gear Set
(1)	224-41146	Oil Pump	(1)	381-8061	Brass Expansion Plug Kit	(1)	224-43567	Oil Pump	(1)	224-41124	Oil Pump
(6)	275NP	Cast Piston	<b>505-1103C</b>			(6)	H523P	Cast Piston	(6)	H519P	Cast Piston
(1)	381-8013	Brass Expansion Plug Kit	(1)	E-470X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit
<b>505-108F</b>			(1)	260-1205	Gasket Kit	<b>505-1113C</b>			<b>505-112F</b>		
(1)	E-229X	Standard Piston Ring Set	(1)	KC-790	Cam & Lifter Kit	(1)	E-471X	Standard Piston Ring Set	(1)	E-446X	Standard Piston Ring Set
(1)	260-1420	Gasket Kit	(1)	222-67	Timing Belt	(1)	260-1443	Gasket Kit	(1)	260-1222	Gasket Kit
(1)	1781M	Camshaft Bearing Set	(1)	224-41972	Oil Pump	(1)	1886M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	KC-1230	Cam & Lifter Kit	(4)	H529P	Cast Piston	(1)	KC-786	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit
(1)	221-2764S	Timing Gear Set	<b>505-1106A</b>			(1)	KT3-365SA1	Timing Set - 3 Pc.	(1)	KT3-374S	Timing Set - 3 Pc.
(1)	224-41124	Oil Pump	(1)	E-465X	Standard Piston Ring Set	(1)	224-43567	Oil Pump	(1)	224-41101	Oil Pump
(6)	H519P	Cast Piston	(1)	260-1436	Gasket Kit	(6)	H523P	Cast Piston	(6)	H497P	Cast Piston
(1)	381-8071	Brass Expansion Plug Kit	(1)	1494M	Camshaft Bearing Set	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8072	Brass Expansion Plug Kit
<b>505-108G</b>			(1)	KC-788	Cam & Lifter Kit	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	E-233X	Standard Piston Ring Set	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	E-471X	Standard Piston Ring Set	(1)	E-458X	Standard Piston Ring Set
(1)	260-1418	Gasket Kit	(1)	224-41100	Oil Pump	(1)	260-1444	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	1404M	Camshaft Bearing Set	(4)	489P	Cast Piston	<b>505-1114B</b>			(1)	1204M	Camshaft Bearing Set
(1)	KC-774	Cam & Lifter Kit	<b>505-1103C</b>			<b>505-1114B</b>			<b>505-1121A</b>		
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	E-470X	Standard Piston Ring Set	(1)	E-471X	Standard Piston Ring Set	<b>505-1121A</b>		
(1)	224-4154G	Oil Pump	(1)	260-1205	Gasket Kit	(1)	260-1443	Gasket Kit	<b>505-1121A</b>		
(8)	H518CP	Cast Piston	(1)	KC-790	Cam & Lifter Kit	(1)	1886M	Camshaft Bearing Set	<b>505-1121A</b>		
(1)	381-8009	Brass Expansion Plug Kit	(1)	222-67	Timing Belt	(1)	KC-786	Cam & Lifter Kit	<b>505-1121A</b>		
<b>505-108H</b>			(1)	224-41972	Oil Pump	(1)	KT3-365SA1	Timing Set - 3 Pc.	<b>505-1121A</b>		
(1)	E-229X	Standard Piston Ring Set	(4)	H529P	Cast Piston	(1)	224-43567	Oil Pump	<b>505-1121A</b>		
(1)	260-1420	Gasket Kit	<b>505-1106A</b>			(6)	H523P	Cast Piston	<b>505-1121A</b>		
(1)	1781M	Camshaft Bearing Set	(1)	E-465X	Standard Piston Ring Set	(1)	381-8053	Brass Expansion Plug Kit	<b>505-1121A</b>		
(1)	KC-1230	Cam & Lifter Kit	(1)	260-1436	Gasket Kit	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	221-2764S	Timing Gear Set	(1)	1494M	Camshaft Bearing Set	(1)	E-471X	Standard Piston Ring Set	<b>505-1121A</b>		
(1)	224-41124	Oil Pump	(1)	KC-788	Cam & Lifter Kit	(1)	260-1444	Gasket Kit	<b>505-1121A</b>		
(6)	H519P	Cast Piston	(1)	KT3-505S	Timing Set - 3 Pc.	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	381-8071	Brass Expansion Plug Kit	(1)	224-41100	Oil Pump	<b>505-1114B</b>			<b>505-1121A</b>		
<b>505-1092A</b>			(4)	489P	Cast Piston	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	E-234X	Standard Piston Ring Set	<b>505-1106A</b>			<b>505-1114B</b>			<b>505-1121A</b>		
(1)	260-1424	Gasket Kit	(1)	E-465X	Standard Piston Ring Set	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	1244M	Camshaft Bearing Set	(1)	260-1436	Gasket Kit	<b>505-1114B</b>			<b>505-1121A</b>		
(1)	KC-809	Cam & Lifter Kit	(1)	1494M	Camshaft Bearing Set	<b>505-1114B</b>			<b>505-1121A</b>		
(cont'd. next column)			(1)	KC-788	Cam & Lifter Kit	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	KT3-505S	Timing Set - 3 Pc.	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	224-41100	Oil Pump	<b>505-1114B</b>			<b>505-1121A</b>		
			(4)	489P	Cast Piston	<b>505-1114B</b>			<b>505-1121A</b>		
			<b>505-1106A</b>			<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	E-465X	Standard Piston Ring Set	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	260-1436	Gasket Kit	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	1494M	Camshaft Bearing Set	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	KC-788	Cam & Lifter Kit	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	KT3-505S	Timing Set - 3 Pc.	<b>505-1114B</b>			<b>505-1121A</b>		
			(1)	224-41100	Oil Pump	<b>505-1114B</b>			<b>505-1121A</b>		
			(4)	489P	Cast Piston	<b>505-1114B</b>			<b>505-1121A</b>		
			<b>505-1106A</b> </								

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	<b>505-1121A</b> (cont'd.)			<b>505-1135A</b> (cont'd.)			<b>505-1148A</b>			<b>505-1156C</b> (cont'd.)	
(1)	KC-668	Cam & Lifter Kit	(1)	381-8074	Brass Expansion Plug Kit	(1)	E-288X	Standard Piston Ring Set	(1)	260-1269	Gasket Kit
(1)	KT3-358SA	Timing Set - 3 Pc.		<b>505-1136A</b>		(1)	260-1477	Gasket Kit	(1)	1235M	Camshaft Bearing Set
(1)	224-41118	Oil Pump	(1)	E-384X	Standard Piston Ring Set	(1)	1466M	Camshaft Bearing Set	(1)	KC-274	Cam & Lifter Kit
(8)	517CP	Cast Piston	(1)	260-1463	Gasket Kit	(1)	KC-758	Cam & Lifter Kit	(1)	KT3-4SR46	Timing Set - 3 Pc.
(1)	381-8015	Brass Expansion Plug Kit	(1)	1756M	Camshaft Bearing Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump
	<b>505-1121C</b>		(1)	KC-781	Cam & Lifter Kit	(1)	224-41203	Oil Pump	(8)	423NP	Cast Piston
(1)	E-458X	Standard Piston Ring Set	(1)	221-2544S	Timing Gear Set	(1)	H801CP	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit
(1)	260-1451	Gasket Kit	(4)	H547CP	Cast Piston		<b>505-1148D</b>			<b>505-1156D</b>	
(1)	1204M	Camshaft Bearing Set	(1)	381-8074	Brass Expansion Plug Kit	(1)	E-288X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	KC-668	Cam & Lifter Kit		<b>505-114A</b>		(1)	260-1477	Gasket Kit	(1)	260-1269	Gasket Kit
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	E-234X	Standard Piston Ring Set	(1)	1466M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	224-41118	Oil Pump	(1)	260-1005	Gasket Kit	(1)	KC-850	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(8)	517CP	Cast Piston	(1)	1557M	Camshaft Bearing Set	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-163S	Timing Set - 3 Pc.
(1)	381-8015	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit	(1)	224-41203	Oil Pump	(1)	224-4146	Oil Pump
	<b>505-1123A</b>		(1)	221-2525S	Timing Gear Set	(8)	H801CP	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit
(1)	E-296X	Standard Piston Ring Set	(1)	224-4147	Oil Pump		<b>505-115A</b>			<b>505-116A</b>	
(1)	260-1452	Gasket Kit	(6)	403P	Cast Piston	(1)	E-234X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set
(1)	1414M	Camshaft Bearing Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	260-1019	Gasket Kit	(1)	260-1037	Gasket Kit
(1)	KC-648	Cam & Lifter Kit		<b>505-114C</b>		(1)	1557M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set
(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	E-234X	Standard Piston Ring Set	(1)	KC-677	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit
(1)	224-41144	Oil Pump	(1)	260-1005	Gasket Kit	(1)	221-2540S	Timing Gear Set	(1)	221-2540S	Timing Gear Set
(8)	H582P	Cast Piston	(1)	1557M	Camshaft Bearing Set	(1)	224-4147	Oil Pump	(1)	224-4147	Oil Pump
(1)	381-8018	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit	(6)	403P	Cast Piston	(1)	381-8006	Brass Expansion Plug Kit
	<b>505-1124A</b>		(1)	221-2528S	Timing Gear Set		<b>505-115E</b>			<b>505-118A</b>	
(1)	E-296X	Standard Piston Ring Set	(1)	224-4147	Oil Pump	(1)	E-234X	Standard Piston Ring Set	(1)	E-243X	Standard Piston Ring Set
(1)	260-1453	Gasket Kit	(6)	403P	Cast Piston	(1)	260-1019	Gasket Kit	(1)	260-1016	Gasket Kit
(1)	1414M	Camshaft Bearing Set	(1)	381-8006	Brass Expansion Plug Kit	(1)	1557M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KC-648	Cam & Lifter Kit		<b>505-114D</b>		(1)	KC-633	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KT3-168SA2	Timing Set - 3 Pc.	(1)	E-234X	Standard Piston Ring Set	(1)	221-2540S	Timing Gear Set	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-41144	Oil Pump	(1)	260-1005	Gasket Kit	(1)	224-4147	Oil Pump	(1)	224-4146	Oil Pump
(8)	H582P	Cast Piston	(1)	1203M	Camshaft Bearing Set	(1)	403P	Cast Piston	(8)	400AP	Cast Piston
(1)	381-8018	Brass Expansion Plug Kit	(1)	KC-633	Cam & Lifter Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8008	Brass Expansion Plug Kit
	<b>505-1133C</b>		(1)	221-2525S	Timing Gear Set		<b>505-115E</b>			<b>505-1183A</b>	
(1)	E-233X	Standard Piston Ring Set	(1)	224-4147	Oil Pump	(1)	E-234X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
(1)	260-1009	Gasket Kit	(6)	1107P	Cast Piston	(1)	260-1019	Gasket Kit	(1)	260-1233	Gasket Kit
(1)	1404M	Camshaft Bearing Set		<b>505-114E</b>		(1)	1557M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	KC-660	Cam & Lifter Kit	(1)	E-234X	Standard Piston Ring Set	(1)	KC-633	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit	(1)	221-2540S	Timing Gear Set	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	224-4154	Oil Pump	(1)	1557M	Camshaft Bearing Set	(1)	224-4147	Oil Pump	(1)	224-4148	Oil Pump
(8)	H661CP	Cast Piston	(1)	KC-677	Cam & Lifter Kit	(1)	550P	Cast Piston	(6)	H561P	Cast Piston
(1)	381-8009	Brass Expansion Plug Kit	(1)	221-2525S	Timing Gear Set		<b>505-1151A</b>			<b>505-1184A</b>	
	<b>505-1133E</b>		(1)	224-4147	Oil Pump	(1)	E-377X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
(1)	E-233X	Standard Piston Ring Set	(1)	224-4147	Oil Pump	(1)	260-1478	Gasket Kit	(1)	260-1466	Gasket Kit
(1)	260-1009	Gasket Kit	(6)	403P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	1404M	Camshaft Bearing Set		<b>505-114F</b>		(1)	KC-808	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit
(1)	KC-774	Cam & Lifter Kit	(1)	E-234X	Standard Piston Ring Set	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit	(1)	224-4146A	Oil Pump	(1)	224-4148	Oil Pump
(1)	224-4154	Oil Pump	(1)	1557M	Camshaft Bearing Set	(1)	550P	Cast Piston	(6)	H561P	Cast Piston
(8)	H661CP	Cast Piston	(1)	KC-633	Cam & Lifter Kit		<b>505-1151A</b>			<b>505-1184B</b>	
(1)	381-8009	Brass Expansion Plug Kit	(1)	221-2525S	Timing Gear Set	(1)	E-377X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
	<b>505-1133E</b>		(1)	224-4147	Oil Pump	(1)	260-1268	Gasket Kit	(1)	260-1466	Gasket Kit
(1)	E-233X	Standard Piston Ring Set	(1)	224-4147	Oil Pump	(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	260-1009	Gasket Kit	(6)	403P	Cast Piston	(1)	KC-766	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit
(1)	1404M	Camshaft Bearing Set		<b>505-114G</b>		(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	KC-774	Cam & Lifter Kit	(1)	E-234X	Standard Piston Ring Set	(1)	224-4146A	Oil Pump	(1)	224-4152	Oil Pump
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1005	Gasket Kit	(8)	550P	Cast Piston	(1)	381-8085	Brass Expansion Plug Kit
(1)	224-4154	Oil Pump	(1)	1557M	Camshaft Bearing Set		<b>505-1153A</b>			<b>505-1184C</b>	
(8)	H661CP	Cast Piston	(1)	KC-677	Cam & Lifter Kit	(1)	E-377X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
(1)	381-8009	Brass Expansion Plug Kit	(1)	221-2525S	Timing Gear Set	(1)	260-1478	Gasket Kit	(1)	260-1466	Gasket Kit
	<b>505-1131A</b>		(1)	224-4147	Oil Pump	(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	E-531X	Standard Piston Ring Set	(1)	224-4147	Oil Pump	(1)	KC-808	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit
(1)	260-1227	Gasket Kit	(1)	224-4147	Oil Pump	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	1485M	Camshaft Bearing Set	(6)	403P	Cast Piston	(1)	224-4146A	Oil Pump	(1)	224-4148	Oil Pump
(1)	KC-811	Cam & Lifter Kit		<b>505-114H</b>		(8)	550P	Cast Piston	(6)	H562CP	Cast Piston
(1)	KT3-370S	Timing Set - 3 Pc.	(1)	E-234X	Standard Piston Ring Set	(1)	381-8059	Brass Expansion Plug Kit		<b>505-1184B</b>	
(1)	224-4151	Oil Pump	(1)	260-1005	Gasket Kit		<b>505-1155A</b>			<b>505-1184C</b>	
(4)	569P	Cast Piston	(1)	1557M	Camshaft Bearing Set	(1)	E-384X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set
	<b>505-1134A</b>		(1)	KC-677	Cam & Lifter Kit	(1)	260-1482	Gasket Kit	(1)	260-1466	Gasket Kit
(1)	E-384X	Standard Piston Ring Set	(1)	221-2540S	Timing Gear Set	(1)	1461M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set
(1)	260-1464	Gasket Kit	(1)	224-4147	Oil Pump	(1)	KC-782	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit
(1)	1461M	Camshaft Bearing Set	(1)	224-4147	Oil Pump	(1)	221-2542LS	Timing Gear Set	(1)	KT3-372S	Timing Set - 3 Pc.
(1)	KC-782	Cam & Lifter Kit	(6)	403P	Cast Piston	(4)	H547P	Cast Piston	(6)	H562CP	Cast Piston
(1)	221-2542LS	Timing Gear Set		<b>505-114I</b>		(1)	381-8074	Brass Expansion Plug Kit		<b>505-1186A</b>	
(4)	H547P	Cast Piston	(1)	E-234X	Standard Piston Ring Set		<b>505-1156A</b>			<b>505-1186A</b>	
(1)	381-8074	Brass Expansion Plug Kit	(1)	260-1005	Gasket Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-476X	Standard Piston Ring Set
	<b>505-1135A</b>		(1)	1203M	Camshaft Bearing Set	(1)	260-1269	Gasket Kit	(1)	260-1526	Gasket Kit
(1)	E-384X	Standard Piston Ring Set	(1)	KC-633	Cam & Lifter Kit	(1)	1235M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	260-1462	Gasket Kit	(1)	221-2525S	Timing Gear Set	(1)	KC-274	Cam & Lifter Kit	(1)	KT3-368S	Timing Set - 3 Pc.
(1)	1756M	Camshaft Bearing Set	(1)	224-4147	Oil Pump	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	KC-781	Cam & Lifter Kit	(6)	403P	Cast Piston	(1)	224-4146	Oil Pump	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	221-2544S	Timing Gear Set		<b>505-114J</b>		(1)	381-8059	Brass Expansion Plug Kit	(1)	222-14	Timing Belt
(4)	H547P	Cast Piston	(1)	E-234X	Standard Piston Ring Set		<b>505-1156C</b>		(1)	224-41160	Oil Pump
	(cont'd. next column)		(1)	260-1005	Gasket Kit		(1)	E-251X			(cont'd. next page)
			(1)	1203M	Camshaft Bearing Set						
			(1)	KC-633	Cam & Lifter Kit						
			(1)	221-2525S	Timing Gear Set						
			(1)	224-4147	Oil Pump						
			(6)	403P	Cast Piston						
			(1)	381-8006	Brass Expansion Plug Kit						

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-1186A</b> (cont'd.)			<b>505-1205A</b> (cont'd.)			<b>505-124P</b>			<b>505-1263A</b> (cont'd.)		
(4)	H491P	Cast Piston	(1)	381-8050	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	(1)	260-1652	Gasket Kit
(1)	381-8029	Brass Expansion Plug Kit	<b>505-1205B</b>			(1)	260-1014	Gasket Kit	(1)	1844M	Camshaft Bearing Set
<b>505-119A</b>			(1)	E-454X	Standard Piston Ring Set	(1)	1403M	Camshaft Bearing Set	(1)	KC-1511	Cam & Lifter Kit
(1)	E-245X	Standard Piston Ring Set	(1)	260-1616	Gasket Kit	(1)	KC-667	Cam & Lifter Kit	(1)	KT3-64S	Timing Set - 3 Pc.
(1)	260-1000	Gasket Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	224-43431	Oil Pump
(1)	1145M	Camshaft Bearing Set	(1)	KC-785	Cam & Lifter Kit	(8)	224-41166	Oil Pump	(6)	H570P	Cast Piston
(1)	KC-274	Cam & Lifter Kit	(1)	222-153	Timing Belt	<b>505-125A</b>			<b>505-1264A</b>		
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	224-4168	Oil Pump	(1)	E-251X	Standard Piston Ring Set	(1)	E-613X	Standard Piston Ring Set
(1)	224-4146	Oil Pump	(4)	571CP	Cast Piston	(1)	260-1028	Gasket Kit	(1)	260-1652	Gasket Kit
(8)	235NP	Cast Piston	<b>505-1212A</b>			(1)	1204M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	E-446X	Standard Piston Ring Set	(1)	KC-674	Cam & Lifter Kit	(1)	KC-1510	Cam & Lifter Kit
<b>505-119C</b>			(1)	260-1556	Gasket Kit	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	224-43431	Oil Pump
(1)	E-245X	Standard Piston Ring Set	(1)	1843M	Camshaft Bearing Set	(8)	416P	Cast Piston	(6)	H570P	Cast Piston
(1)	260-1000	Gasket Kit	(1)	KC-787	Cam & Lifter Kit	<b>505-125C</b>			<b>505-127A</b>		
(1)	1145M	Camshaft Bearing Set	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	KC-273	Cam & Lifter Kit	(6)	H497P	Cast Piston	(1)	260-1028	Gasket Kit	(1)	260-1126	Gasket Kit
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	381-8072	Brass Expansion Plug Kit	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	224-4146	Oil Pump	<b>505-1215A</b>			(1)	KC-674	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit
(8)	235NP	Cast Piston	(1)	E-458X	Standard Piston Ring Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1559	Gasket Kit	(1)	224-41143	Oil Pump	(8)	416P	Cast Piston
<b>505-119D</b>			(1)	1204M	Camshaft Bearing Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	E-245X	Standard Piston Ring Set	(1)	KC-668	Cam & Lifter Kit	<b>505-125D</b>			<b>505-127C</b>		
(1)	260-1000	Gasket Kit	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set	(1)	260-1126	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(8)	517CP	Cast Piston	(1)	260-1028	Gasket Kit	(1)	1204M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	1204M	Camshaft Bearing Set	(1)	KC-674	Cam & Lifter Kit
(1)	KT3-489S	Timing Set - 3 Pc.	<b>505-1217A</b>			(1)	KC-674	Cam & Lifter Kit	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	E-454X	Standard Piston Ring Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	416P	Cast Piston
(8)	235NP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	224-41143	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit
(1)	381-8007	Brass Expansion Plug Kit	(1)	1487M	Auxiliary Shaft Bearing Set	<b>505-125A</b>			<b>505-127D</b>		
<b>505-119E</b>			(1)	KC-785	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	E-245X	Standard Piston Ring Set	(1)	222-153	Timing Belt	(1)	260-1028	Gasket Kit	(1)	260-1126	Gasket Kit
(1)	260-1000	Gasket Kit	(1)	224-4168	Oil Pump	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	1235M	Camshaft Bearing Set	(4)	527P	Cast Piston	(1)	KC-674	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit
(1)	KC-274	Cam & Lifter Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	KT3-358S	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	KT3-489S	Timing Set - 3 Pc.	<b>505-122C</b>			(1)	224-41143	Oil Pump	(8)	463P	Cast Piston
(1)	224-4149	Oil Pump	(1)	E-251X	Standard Piston Ring Set	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(8)	235NP	Cast Piston	(1)	260-1033	Gasket Kit	<b>505-125A</b>			<b>505-127C</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	KC-668	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	260-1126	Gasket Kit
<b>505-119F</b>			(1)	KT3-361S	Timing Set - 3 Pc.	(1)	260-1028	Gasket Kit	(1)	1204M	Camshaft Bearing Set
(1)	E-245X	Standard Piston Ring Set	(8)	405P	Cast Piston	(1)	1204M	Camshaft Bearing Set	(1)	KC-674	Cam & Lifter Kit
(1)	260-1000	Gasket Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	KC-674	Cam & Lifter Kit	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	1235M	Camshaft Bearing Set	<b>505-124G</b>			(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	463P	Cast Piston
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	224-41118	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	(1)	H654P	Cast Piston	(1)	381-8015	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	1403M	Camshaft Bearing Set	<b>505-125A</b>			<b>505-130A</b>		
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	260-1000	Gasket Kit	(1)	260-1000	Gasket Kit
<b>505-119G</b>			(1)	224-41166	Oil Pump	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	(1)	KC-274	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	260-1000	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	1235M	Camshaft Bearing Set	<b>505-124J</b>			(1)	224-4146	Oil Pump	(8)	423NP	Cast Piston
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	310NP	Cast Piston	<b>505-130C</b>		
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	<b>505-125A</b>			<b>505-130C</b>		
(1)	224-4149	Oil Pump	(1)	1403M	Camshaft Bearing Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	260-1000	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
<b>505-119H</b>			(1)	224-41166	Oil Pump	(1)	KC-274	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	260-1000	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	224-4146	Oil Pump	(8)	423NP	Cast Piston
(1)	1235M	Camshaft Bearing Set	<b>505-124K</b>			(1)	310NP	Cast Piston	<b>505-130D</b>		
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	(1)	260-1000	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	224-4149	Oil Pump	(1)	1403M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-494SA2	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
<b>505-120A</b>			(1)	224-41166	Oil Pump	(1)	224-4146	Oil Pump	(8)	423NP	Cast Piston
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	<b>505-125A</b>			<b>505-130E</b>		
(1)	260-1000	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	1235M	Camshaft Bearing Set	<b>505-124M</b>			(1)	260-1000	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	1403M	Camshaft Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.	(8)	345NP	Cast Piston
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-498SA2	Timing Set - 3 Pc.	<b>505-125A</b>			<b>505-130E</b>		
<b>505-120A</b>			(1)	224-41166	Oil Pump	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	(1)	260-1559	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	260-1000	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	1235M	Camshaft Bearing Set	<b>505-124N</b>			(1)	KC-668	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	(1)	224-41118	Oil Pump	(1)	224-4146	Oil Pump
(1)	224-4146	Oil Pump	(1)	1403M	Camshaft Bearing Set	(8)	H654P	Cast Piston	(1)	310NP	Cast Piston
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	<b>505-125A</b>			<b>505-130E</b>		
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
<b>505-120A</b>			(1)	224-41166	Oil Pump	(1)	260-1559	Gasket Kit	(1)	260-1000	Gasket Kit
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	(1)	1204M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	260-1000	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	KC-668	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	1235M	Camshaft Bearing Set	<b>505-124P</b>			(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	KC-274	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	224-41118	Oil Pump	(8)	345NP	Cast Piston
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1014	Gasket Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8007	Brass Expansion Plug Kit
(1)	224-4146	Oil Pump	(1)	1403M	Camshaft Bearing Set	<b>505-125A</b>			<b>505-130E</b>		
(8)	235NP	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	381-8007	Brass Expansion Plug Kit	(1)	KT3-498SA2	Timing Set - 3 Pc.	(1)	260-1000	Gasket Kit	(1)	260-1000	Gasket Kit
<b>505-120A</b>			(1)	224-41166	Oil Pump	(1)	1235M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	E-245X	Standard Piston Ring Set	(8)	451P	Cast Piston	(1)	KC-274	Cam & Lifter Kit	(1)	KC-274	Cam & Lifter Kit
(1)	260-1616	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	1487M	Auxiliary Shaft Bearing Set	<b>505-124Q</b>			(1)	224-4146	Oil Pump	(8)	423NP	Cast Piston
(1)	KC-785	Cam & Lifter Kit	(1)	E-251X	Standard Piston Ring Set	(1)	310NP	Cast Piston	<b>505-130E</b>		
(1)	222-153	Timing Belt	(1)	260-1014	Gasket Kit	(1)	E-613X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set
(1)	224-4168	Oil Pump	(1)	1403M	Camshaft Bearing Set	<b>505-1263A</b>			<b>505-130E</b>		
(4)	571CP	Cast Piston									





# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-161A</b> (cont'd.)			<b>505-195A</b>			<b>505-2033</b> (cont'd.)			<b>505-217C</b>		
(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	E-378X	Standard Piston Ring Set	(1)	260-1556	Gasket Kit	(1)	E-178X	Standard Piston Ring Set
(1)	224-4154	Oil Pump	(1)	260-1104	Gasket Kit	(1)	1843M	Camshaft Bearing Set	(1)	260-1153	Gasket Kit
(8)	402P	Cast Piston	(1)	1466M	Camshaft Bearing Set	(1)	KC-787	Cam & Lifter Kit	(1)	1484M	Camshaft Bearing Set
(1)	381-8009	Brass Expansion Plug Kit	(1)	KC-707	Cam & Lifter Kit	(1)	KT3-374S	Timing Set - 3 Pc.	(1)	KC-645	Cam & Lifter Kit
<b>505-162A</b>			<b>505-199A</b>			<b>505-2050</b>			<b>505-218A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1145M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KC-779	Cam & Lifter Kit	(1)	1484M	Camshaft Bearing Set
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	KC-645	Cam & Lifter Kit
(1)	224-4146	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-41198	Oil Pump	(1)	KT3-361S	Timing Set - 3 Pc.
(8)	310NP	Cast Piston	(6)	464P	Cast Piston	(4)	525CP	Cast Piston	(8)	224-4166	Oil Pump
<b>505-162C</b>			<b>505-199C</b>			<b>505-2053</b>			<b>505-218D</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-411X	Standard Piston Ring Set	(1)	E-234X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1123	Gasket Kit	(1)	260-1424	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit	(1)	1484M	Camshaft Bearing Set
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-4SR48	Timing Set - 3 Pc.	(1)	KC-645	Cam & Lifter Kit
(1)	224-4146	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-41198	Oil Pump	(1)	KT3-160S	Timing Set - 3 Pc.
(8)	310NP	Cast Piston	(6)	464P	Cast Piston	(6)	677CP	Cast Piston	(8)	224-4166	Oil Pump
<b>505-162E</b>			<b>505-2000</b>			<b>505-2058</b>			<b>505-218H</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-4149	Oil Pump	(1)	224-4148	Oil Pump	(1)	222-153	Timing Belt	(1)	224-4166	Oil Pump
(8)	310NP	Cast Piston	(6)	H562CP	Cast Piston	(4)	527P	Cast Piston	(8)	526P	Cast Piston
<b>505-162F</b>			<b>505-2001</b>			<b>505-2059</b>			<b>505-218J</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-454X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1466	Gasket Kit	(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-1556	Cam & Lifter Kit
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-4149	Oil Pump	(1)	224-4152	Oil Pump	(1)	222-153	Timing Belt	(1)	224-4166	Oil Pump
(8)	310NP	Cast Piston	(6)	H562CP	Cast Piston	(4)	527P	Cast Piston	(8)	526P	Cast Piston
<b>505-162G</b>			<b>505-2002</b>			<b>505-213A</b>			<b>505-218K</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-605X	Standard Piston Ring Set	(1)	E-286X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-644	Cam & Lifter Kit	(1)	KC-1556	Cam & Lifter Kit
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	224-4149	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-4166	Oil Pump
(8)	310NP	Cast Piston	(6)	H561CP	Cast Piston	(8)	L-2316F 20	Power Forged Piston	(8)	526P	Cast Piston
<b>505-162H</b>			<b>505-2012</b>			<b>505-215A</b>			<b>505-218L</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-229X	Standard Piston Ring Set	(1)	E-301X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1240	Gasket Kit	(1)	260-1151	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set	(1)	1401M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-783	Cam & Lifter Kit	(1)	KC-646	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-499SA6	Timing Set - 3 Pc.	(1)	KT3-369S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.
(1)	224-4149	Oil Pump	(1)	224-4146	Oil Pump	(1)	224-5128S	Oil Pump Repair Kit	(1)	224-4166	Oil Pump
(8)	310NP	Cast Piston	(6)	645P	Cast Piston	(8)	362NP	Cast Piston	(8)	526P	Cast Piston
<b>505-162I</b>			<b>505-2032</b>			<b>505-216A</b>			<b>505-224A</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-465X	Standard Piston Ring Set	(1)	E-222X	Standard Piston Ring Set	(1)	E-369X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1437	Gasket Kit	(1)	260-1134	Gasket Kit	(1)	260-1149	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1462M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit	(1)	KC-702	Cam & Lifter Kit
(1)	KT3-489S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.	(1)	KT3-359SA1	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(1)	224-4100	Oil Pump	(1)	224-41198	Oil Pump	(1)	224-518	Oil Pump Repair Kit
(8)	310NP	Cast Piston	(4)	489P	Cast Piston	(6)	470NP	Cast Piston	(6)	450NP	Cast Piston
<b>505-162J</b>			<b>505-2033</b>			<b>505-227C</b>			<b>505-218M</b>		
(1)	E-251X	Standard Piston Ring Set	(1)	E-446X	Standard Piston Ring Set	(1)	E-432X	Standard Piston Ring Set	(1)	E-178X	Standard Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	260-1104	Gasket Kit	(1)	260-1143	Gasket Kit	(1)	260-1152	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(cont'd. next column)			(cont'd. next page)			(1)	1484M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit							(1)	1484M	Camshaft Bearing Set
(1)	KT3-489S	Timing Set - 3 Pc.							(1)	KC-645	Cam & Lifter Kit
(1)	224-4146	Oil Pump							(1)	KT3-160S	Timing Set - 3 Pc.
(8)	310NP	Cast Piston							(1)	224-4166	Oil Pump
<b>505-162K</b>									(8)	526P	Cast Piston
<b>505-162L</b>									(1)	381-8010	Brass Expansion Plug Kit
<b>505-162M</b>									<b>505-218N</b>		
<b>505-162N</b>									<b>505-218O</b>		
<b>505-162O</b>									<b>505-218P</b>		
<b>505-162P</b>									<b>505-218Q</b>		
<b>505-162Q</b>									<b>505-218R</b>		
<b>505-162R</b>									<b>505-218S</b>		
<b>505-162S</b>									<b>505-218T</b>		
<b>505-162T</b>									<b>505-218U</b>		
<b>505-162U</b>									<b>505-218V</b>		
<b>505-162V</b>									<b>505-218W</b>		
<b>505-162W</b>									<b>505-218X</b>		
<b>505-162X</b>									<b>505-218Y</b>		
<b>505-162Y</b>									<b>505-218Z</b>		
<b>505-162Z</b>									<b>505-219A</b>		
<b>505-162AA</b>									<b>505-219B</b>		
<b>505-162AB</b>									<b>505-219C</b>		
<b>505-162AC</b>									<b>505-219D</b>		
<b>505-162AD</b>									<b>505-219E</b>		
<b>505-162AE</b>									<b>505-219F</b>		
<b>505-162AF</b>									<b>505-219G</b>		
<b>505-162AG</b>									<b>505-219H</b>		
<b>505-162AH</b>									<b>505-219I</b>		
<b>505-162AI</b>									<b>505-219J</b>		
<b>505-162AJ</b>									<b>505-219K</b>		
<b>505-162AK</b>									<b>505-219L</b>		
<b>505-162AL</b>									<b>505-219M</b>		
<b>505-162AM</b>									<b>505-219N</b>		
<b>505-162AN</b>									<b>505-219O</b>		
<b>505-162AO</b>									<b>505-219P</b>		
<b>505-162AP</b>									<b>505-219Q</b>		
<b>505-162AQ</b>									<b>505-219R</b>		
<b>505-162AR</b>									<b>505-219S</b>		
<b>505-162AS</b>									<b>505-219T</b>		
<b>505-162AT</b>									<b>505-219U</b>		
<b>505-162AU</b>									<b>505-219V</b>		
<b>505-162AV</b>									<b>505-219W</b>		
<b>505-162AW</b>									<b>505-219X</b>		
<b>505-162AX</b>									<b>505-219Y</b>		
<b>505-162AY</b>									<b>505-219Z</b>		
<b>505-162AZ</b>									<b>505-220A</b>		
<b>505-162BA</b>									<b>505-220B</b>		
<b>505-162BB</b>									<b>505-220C</b>		
<b>505-162BC</b>									<b>505-220D</b>		
<b>505-162BD</b>									<b>505-220E</b>		
<b>505-162BE</b>									<b>505-220F</b>		
<b>505-162BF</b>									<b>505-220G</b>		
<b>505-162BG</b>									<b>505-220H</b>		
<b>505-162BH</b>									<b>505-220I</b>		
<b>505-162BI</b>									<b>505-220J</b>		
<b>505-162BJ</b>									<b>505-220K</b>		
<b>505-162BK</b>									<b>505-220L</b>		
<b>505-162BL</b>									<b>505-220M</b>		
<b>505-162BM</b>									<b>505-220N</b>		
<b>505-162BN</b>									<b>505-220O</b>		
<b>505-162BO</b>									<b>505-220P</b>		
<b>505-162BP</b>									<b>505-220Q</b>		
<b>505-162BQ</b>									<b>505-220R</b>		
<b>505-162BR</b>									<b>505-220S</b>		
<b>505-162BS</b>									<b>505-220T</b>		
<b>505-162BT</b>											

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-227C</b> (cont'd.)			<b>505-244C</b> (cont'd.)			<b>505-263A</b> (cont'd.)			<b>505-360A</b> (cont'd.)		
(1)	1492M	Camshaft Bearing Set	(1)	KC-645	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(6)	470NP	Cast Piston
(1)	KC-715	Cam & Lifter Kit	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	381-8000	Brass Expansion Plug Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	224-4166	Oil Pump	(1)	222-14	Timing Belt	<b>505-369C</b>		
(1)	224-4148	Oil Pump	(8)	285NP	Cast Piston	(1)	224-41160	Oil Pump	(1)	E-454X	Standard Piston Ring Set
(6)	516P	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit	(4)	H435P	Cast Piston	(1)	260-1093	Gasket Kit
(1)	381-8046	Brass Expansion Plug Kit	<b>505-252A</b>			(1)	381-8029	Brass Expansion Plug Kit	(1)	1487M	Auxiliary Shaft Bearing Set
<b>505-228C</b>			(1)	E-352X	Standard Piston Ring Set	<b>505-265C</b>			(1)	KC-785C	Cam, Lifter & Follower Kit
(1)	E-432X	Standard Piston Ring Set	(1)	260-1161	Gasket Kit	(1)	E-229X	Standard Piston Ring Set	(1)	222-71	Timing Belt
(1)	260-1144	Gasket Kit	(1)	1443M	Camshaft Bearing Set	(1)	260-1174	Gasket Kit	(1)	224-4168	Oil Pump
(1)	1492M	Camshaft Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	1781M	Camshaft Bearing Set	(4)	527P	Cast Piston
(1)	KC-715	Cam & Lifter Kit	(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	KC-1230	Cam & Lifter Kit	(1)	381-8050	Brass Expansion Plug Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	222-14	Timing Belt	(1)	221-2764S	Timing Gear Set	<b>505-383A</b>		
(1)	224-4148	Oil Pump	(1)	224-41160	Oil Pump	(1)	224-41124	Oil Pump	(1)	E-465X	Standard Piston Ring Set
(6)	516P	Cast Piston	(4)	H435P	Cast Piston	(6)	H519P	Cast Piston	(1)	260-1208	Gasket Kit
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8029	Brass Expansion Plug Kit	(1)	381-8014	Brass Expansion Plug Kit	(1)	1494M	Camshaft Bearing Set
<b>505-228E</b>			<b>505-257A</b>			<b>505-267A</b>			(1)	KC-788	Cam & Lifter Kit
(1)	E-432X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	KT3-505S	Timing Set - 3 Pc.
(1)	260-1144	Gasket Kit	(1)	260-1166	Gasket Kit	(1)	260-1013	Gasket Kit	(1)	224-41100	Oil Pump
(1)	1492M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(4)	489P	Cast Piston
(1)	KC-1539	Cam & Lifter Kit	(1)	KC-733	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	<b>505-386A</b>		
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	E-415X	Standard Piston Ring Set
(1)	224-4148	Oil Pump	(1)	224-51162	Oil Pump Repair Kit	(1)	224-41144	Oil Pump	(1)	260-1211	Gasket Kit
(6)	516P	Cast Piston	(6)	481P	Cast Piston	(8)	H418P	Cast Piston	(1)	1493M	Camshaft Bearing Set
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	(1)	381-8018	Brass Expansion Plug Kit	(1)	KC-748	Cam & Lifter Kit
<b>505-228G</b>			<b>505-258A</b>			<b>505-268A</b>			(1)	KT3-365SA	Timing Set - 3 Pc.
(1)	E-432X	Standard Piston Ring Set	(1)	E-415X	Standard Piston Ring Set	(1)	E-296X	Standard Piston Ring Set	(1)	224-51162	Oil Pump Repair Kit
(1)	260-1144	Gasket Kit	(1)	260-1167	Gasket Kit	(1)	260-1177	Gasket Kit	(6)	490P .50MM	Cast Piston
(1)	1492M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set	(1)	1414M	Camshaft Bearing Set	(1)	381-8053	Brass Expansion Plug Kit
(1)	KC-1539	Cam & Lifter Kit	(1)	KC-748	Cam & Lifter Kit	(1)	KC-648	Cam & Lifter Kit	<b>505-388A</b>		
(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-365SA	Timing Set - 3 Pc.	(1)	KT3-491S	Timing Set - 3 Pc.	(1)	E-251X	Standard Piston Ring Set
(1)	224-4148	Oil Pump	(1)	224-51162	Oil Pump Repair Kit	(1)	224-41144	Oil Pump	(1)	260-1213A	Gasket Kit
(6)	516P	Cast Piston	(6)	490P .50MM	Cast Piston	(8)	H418P	Cast Piston	(1)	1204M	Camshaft Bearing Set
(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit	<b>505-274A</b>			(1)	KC-761	Cam & Lifter Kit
<b>505-239A</b>			<b>505-260A</b>			<b>505-274C</b>			(1)	KT3-761SA	Timing Set - 3 Pc.
(1)	E-234X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	224-41118	Oil Pump
(1)	260-1129	Gasket Kit	(1)	260-1169	Gasket Kit	(1)	260-1189	Gasket Kit	(8)	403P	Cast Piston
(1)	1557M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	381-8006	Brass Expansion Plug Kit
(1)	KC-633	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit	(1)	1204M	Camshaft Bearing Set	<b>505-391A</b>		
(1)	221-2528S	Timing Gear Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-674	Cam & Lifter Kit	(1)	E-476X	Standard Piston Ring Set
(1)	224-4147	Oil Pump	(1)	224-41118	Oil Pump	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	260-1214	Gasket Kit
(6)	403P	Cast Piston	(8)	273AP	Cast Piston	(1)	224-41143	Oil Pump	(1)	1443M	Camshaft Bearing Set
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(8)	463P	Cast Piston	(1)	1460M	Auxiliary Shaft Bearing Set
<b>505-239C</b>			<b>505-261A</b>			<b>505-274C</b>			(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	E-234X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	222-14	Timing Belt
(1)	260-1129	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1189	Gasket Kit	(1)	224-41160	Oil Pump
(1)	1557M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(4)	H491P	Cast Piston
(1)	KC-677	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	381-8029	Brass Expansion Plug Kit
(1)	221-2540S	Timing Gear Set	(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	<b>505-396A</b>		
(1)	224-4147	Oil Pump	(1)	224-41143	Oil Pump	(1)	224-41143	Oil Pump	(1)	E-442X	Standard Piston Ring Set
(6)	403P	Cast Piston	(8)	463P	Cast Piston	(8)	463P	Cast Piston	(1)	260-1218	Gasket Kit
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	(1)	1443M	Camshaft Bearing Set
<b>505-239D</b>			<b>505-261C</b>			<b>505-274C</b>			(1)	1460M	Auxiliary Shaft Bearing Set
(1)	E-234X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	KC-767C	Cam, Lifter & Follower Kit
(1)	260-1129	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1189	Gasket Kit	(1)	222-14	Timing Belt
(1)	1557M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	224-41160	Oil Pump
(1)	KC-633	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit	(1)	381-8029	Brass Expansion Plug Kit
(1)	221-2540S	Timing Gear Set	(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-358SA	Timing Set - 3 Pc.	<b>505-398C</b>		
(1)	224-4147	Oil Pump	(1)	224-41143	Oil Pump	(1)	224-41143	Oil Pump	(1)	E-481X	Standard Piston Ring Set
(6)	403P	Cast Piston	(8)	463P	Cast Piston	(4)	525P	Cast Piston	(1)	260-1220	Gasket Kit
(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	<b>505-358A</b>			(1)	1838M	Camshaft Bearing Set
<b>505-243A</b>			<b>505-261D</b>			<b>505-358A</b>			(1)	KC-814	Cam & Lifter Kit
(1)	E-178X	Standard Piston Ring Set	(1)	E-251X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	KT3-60S	Timing Set - 3 Pc.
(1)	260-1121	Gasket Kit	(1)	260-1170	Gasket Kit	(1)	260-1191	Gasket Kit	(1)	224-43431	Oil Pump
(1)	1484M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(6)	520P	Cast Piston
(1)	KC-645	Cam & Lifter Kit	(1)	KC-764	Cam & Lifter Kit	(1)	1244M	Camshaft Bearing Set	(1)	381-8064	Brass Expansion Plug Kit
(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-163SA	Timing Set - 3 Pc.	(1)	KC-779	Cam & Lifter Kit	<b>505-6002A</b>		
(1)	224-4166	Oil Pump	(1)	224-41143	Oil Pump	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	E-458K	Premium Piston Ring Set
(8)	285NP	Cast Piston	(8)	463P	Cast Piston	(4)	525P	Cast Piston	(1)	260-1169	Gasket Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit	<b>505-359A</b>			(1)	1204M	Camshaft Bearing Set
<b>505-244C</b>			<b>505-263A</b>			<b>505-359A</b>			(1)	KC-668	Cam & Lifter Kit
(1)	E-178X	Standard Piston Ring Set	(1)	E-352X	Standard Piston Ring Set	(1)	E-450X	Standard Piston Ring Set	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	260-1154	Gasket Kit	(1)	260-1172	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	224-41118	Oil Pump
(1)	1484M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	<b>(cont'd. next page)</b>		
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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-6002A</b> (cont'd.)			<b>505-6011A</b> (cont'd.)			<b>505-6024C</b> (cont'd.)			<b>505-6037A</b>		
(8)	517CP	Cast Piston	(6)	516P	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	<b>505-6024D</b>			(1)	260-1268	Gasket Kit
<b>505-6003A</b>			<b>505-6012A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set
(1)	E-296K	Premium Piston Ring Set	(1)	E-478K	Premium Piston Ring Set	(1)	260-1243	Gasket Kit	(1)	KC-274	Cam & Lifter Kit
(1)	260-1223	Gasket Kit	(1)	260-1233	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	KT3-499S	Timing Set - 3 Pc.
(1)	1414M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	KC-711	Cam & Lifter Kit	(1)	224-4146	Oil Pump
(1)	KC-648	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	423NP	Cast Piston
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8059	Brass Expansion Plug Kit
(1)	224-41144	Oil Pump	(1)	224-4148	Oil Pump	(8)	534NP	Cast Piston	<b>505-6037C</b>		
(8)	H418P	Cast Piston	(6)	531P	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set
(1)	381-8018	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	<b>505-6026A</b>			(1)	260-1268	Gasket Kit
<b>505-6004A</b>			<b>505-6015E</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set
(1)	E-447K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	KC-274	Cam & Lifter Kit
(1)	260-1672	Gasket Kit	(1)	260-1236	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	KT3-163S	Timing Set - 3 Pc.
(1)	260-4029	Valley Pan Gasket Set	(1)	1755M	Camshaft Bearing Set	(1)	KC-766	Cam & Lifter Kit	(1)	224-4146	Oil Pump
(1)	1467M	Camshaft Bearing Set	(1)	KC-836	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(8)	423NP	Cast Piston
(1)	KC-771	Cam & Lifter Kit	(1)	KT3-359SA2	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8059	Brass Expansion Plug Kit
(1)	221-3342S	Timing Gear Set	(1)	224-51379	Oil Pump Repair Kit	(8)	536NP	Cast Piston	<b>505-604A</b>		
(1)	224-41999	Oil Pump	(6)	450NP	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-196K	Premium Piston Ring Set
(8)	H729CP	Cast Piston	(1)	381-8073	Brass Expansion Plug Kit	<b>505-6026C</b>			(1)	260-1038	Gasket Kit
(1)	381-8056	Brass Expansion Plug Kit	<b>505-6019A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1473M	Camshaft Bearing Set
<b>505-6006A</b>			(1)	E-459K	Premium Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	KC-709	Cam & Lifter Kit
(1)	E-477K	Premium Piston Ring Set	(1)	260-1239	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	KT3-495SA	Timing Set - 3 Pc.
(1)	260-1227	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	KC-793	Cam & Lifter Kit	(1)	224-4165C	Oil Pump
(1)	1485M	Camshaft Bearing Set	(1)	KC-756	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(6)	244NP	Cast Piston
(1)	KC-811	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8012	Brass Expansion Plug Kit
(1)	KT3-370S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(8)	536NP	Cast Piston	<b>505-606A</b>		
(1)	224-4151	Oil Pump	(6)	640P	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-217K	Premium Piston Ring Set
(4)	540P 1.00MM	Cast Piston	(1)	381-8049	Brass Expansion Plug Kit	<b>505-6026E</b>			(1)	260-1005	Gasket Kit
(1)	381-8054	Brass Expansion Plug Kit	<b>505-602A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1203M	Camshaft Bearing Set
<b>505-6007A</b>			(1)	E-196K	Premium Piston Ring Set	(1)	260-1246	Gasket Kit	(1)	KC-551	Cam & Lifter Kit
(1)	E-384K	Premium Piston Ring Set	(1)	260-1004	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	221-2528S	Timing Gear Set
(1)	260-1228	Gasket Kit	(1)	1454M	Camshaft Bearing Set	(1)	KC-711	Cam & Lifter Kit	(1)	224-4147	Oil Pump
(1)	1461M	Camshaft Bearing Set	(1)	KC-380	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(6)	H909P	Cast Piston
(1)	KC-782	Cam & Lifter Kit	(1)	KT3-495SA	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit
(1)	221-2542LS	Timing Gear Set	(1)	224-4165C	Oil Pump	(8)	536NP	Cast Piston	<b>505-606C</b>		
(1)	224-41239	Oil Pump	(6)	244NP	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-217K	Premium Piston Ring Set
(4)	H547P	Cast Piston	(1)	381-8012	Brass Expansion Plug Kit	<b>505-6027A</b>			(1)	260-1005	Gasket Kit
(1)	381-8074	Brass Expansion Plug Kit	<b>505-6020A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1557M	Camshaft Bearing Set
<b>505-6008A</b>			(1)	E-459K	Premium Piston Ring Set	(1)	260-1247	Gasket Kit	(1)	KC-551	Cam & Lifter Kit
(1)	E-384K	Premium Piston Ring Set	(1)	260-1240	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	221-2528S	Timing Gear Set
(1)	260-1229	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	KC-793	Cam & Lifter Kit	(1)	224-4147	Oil Pump
(1)	1756M	Camshaft Bearing Set	(1)	KC-756	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(6)	H909P	Cast Piston
(1)	KC-781	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit
(1)	221-2544S	Timing Gear Set	(1)	224-4146	Oil Pump	(8)	536NP	Cast Piston	<b>505-607A</b>		
(1)	224-41239	Oil Pump	(6)	640P	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-217K	Premium Piston Ring Set
(4)	H547P	Cast Piston	(1)	381-8058	Brass Expansion Plug Kit	<b>505-6027C</b>			(1)	260-1044	Gasket Kit
(1)	381-8074	Brass Expansion Plug Kit	<b>505-6021A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1557M	Camshaft Bearing Set
<b>505-6009A</b>			(1)	E-459K	Premium Piston Ring Set	(1)	260-1247	Gasket Kit	(1)	KC-551	Cam & Lifter Kit
(1)	E-450K	Premium Piston Ring Set	(1)	260-1241	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	221-2528S	Timing Gear Set
(1)	260-1230	Gasket Kit	(1)	1463M	Camshaft Bearing Set	(1)	KC-808	Cam & Lifter Kit	(1)	224-4147	Oil Pump
(1)	1202M	Camshaft Bearing Set	(1)	KC-783	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(6)	H909P	Cast Piston
(1)	KC-708A	Cam & Lifter Kit	(1)	KT3-499SA3	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(1)	381-8006	Brass Expansion Plug Kit
(1)	221-2525S	Timing Gear Set	(1)	224-4146	Oil Pump	(8)	536NP	Cast Piston	<b>505-608A</b>		
(1)	224-4147	Oil Pump	(6)	640P	Cast Piston	(1)	381-8059	Brass Expansion Plug Kit	(1)	E-219K	Premium Piston Ring Set
(4)	1108P	Cast Piston	(1)	381-8058	Brass Expansion Plug Kit	<b>505-603C</b>			(1)	260-1002	Gasket Kit
(1)	381-8006	Brass Expansion Plug Kit	<b>505-6023A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	1439M	Camshaft Bearing Set
<b>505-6010A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	260-1004	Gasket Kit	(1)	KC-448	Cam & Lifter Kit
(1)	E-450K	Premium Piston Ring Set	(1)	260-1244	Gasket Kit	(1)	1473M	Camshaft Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	260-1231	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	KC-380	Cam & Lifter Kit	(1)	224-41146	Oil Pump
(1)	1202M	Camshaft Bearing Set	(1)	KC-766	Cam & Lifter Kit	(1)	KT3-495SA	Timing Set - 3 Pc.	(6)	275NP	Cast Piston
(1)	KC-708A	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	224-4165C	Oil Pump	(1)	381-8013	Brass Expansion Plug Kit
(1)	221-2525S	Timing Gear Set	(1)	224-4146	Oil Pump	(6)	244NP	Cast Piston	<b>505-608D</b>		
(1)	224-4147	Oil Pump	(8)	534NP	Cast Piston	(1)	381-8012	Brass Expansion Plug Kit	(1)	E-219K	Premium Piston Ring Set
(4)	1108P	Cast Piston	(1)	381-8007	Brass Expansion Plug Kit	<b>505-6036A</b>			(1)	260-1002	Gasket Kit
(1)	381-8006	Brass Expansion Plug Kit	<b>505-6024C</b>			(1)	E-217K	Premium Piston Ring Set	(1)	1439M	Camshaft Bearing Set
<b>505-6011A</b>			(1)	E-356K	Premium Piston Ring Set	(1)	260-1267	Gasket Kit	(1)	KC-658	Cam & Lifter Kit
(1)	E-432K	Premium Piston Ring Set	(1)	260-1243	Gasket Kit	(1)	1557M	Camshaft Bearing Set	(1)	KT3-351S	Timing Set - 3 Pc.
(1)	260-1232	Gasket Kit	(1)	1235M	Camshaft Bearing Set	(1)	KC-551	Cam & Lifter Kit	(1)	224-41146	Oil Pump
(1)	1492M	Camshaft Bearing Set	(1)	KC-766	Cam & Lifter Kit	(1)	221-2528S	Timing Gear Set	(6)	275NP	Cast Piston
(1)	KC-1539	Cam & Lifter Kit	(1)	KT3-499S	Timing Set - 3 Pc.	(1)	224-4147	Oil Pump	(1)	381-8013	Brass Expansion Plug Kit
(1)	KT3-368S	Timing Set - 3 Pc.	(1)	224-4146	Oil Pump	(6)	H909P	Cast Piston	<b>505-6084A</b>		
(1)	224-4148	Oil Pump	(8)	534NP	Cast Piston	(1)	381-8006	Brass Expansion Plug Kit	(1)	E-468K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(cont'd. next page)			(cont'd. next page)		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-6121A</b> (cont'd.) (1) 260-1451 Gasket Kit (1) 1204M Camshaft Bearing Set (1) KC-668 Cam & Lifter Kit (1) KT3-358SA Timing Set - 3 Pc. (1) 224-41118 Oil Pump (8) 517CP Cast Piston (1) 381-8015 Brass Expansion Plug Kit			<b>505-6134A</b> (cont'd.) (4) H547P Cast Piston (1) 381-8074 Brass Expansion Plug Kit			<b>505-614H</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1203M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2525S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6151A</b> (cont'd.) (1) 381-8059 Brass Expansion Plug Kit		
<b>505-6121C</b> (1) E-458K Premium Piston Ring Set (1) 260-1451 Gasket Kit (1) 1204M Camshaft Bearing Set (1) KC-668 Cam & Lifter Kit (1) KT3-163SA1 Timing Set - 3 Pc. (1) 224-41118 Oil Pump (8) 517CP Cast Piston (1) 381-8015 Brass Expansion Plug Kit			<b>505-6135A</b> (1) E-384K Premium Piston Ring Set (1) 260-1462 Gasket Kit (1) 1756M Camshaft Bearing Set (1) KC-781 Cam & Lifter Kit (1) 221-2544S Timing Gear Set (4) H547P Cast Piston (1) 381-8074 Brass Expansion Plug Kit			<b>505-6140A</b> (1) E-533K Premium Piston Ring Set (1) 260-1467 Gasket Kit (1) 1755M Camshaft Bearing Set (1) KC-1505 Cam & Lifter Kit (1) KT3-377S Timing Set - 3 Pc. (1) 224-51379 Oil Pump Repair Kit (6) H564P Cast Piston			<b>505-6153A</b> (1) E-377K Premium Piston Ring Set (1) 260-1268 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-766 Cam & Lifter Kit (1) KT3-499S Timing Set - 3 Pc. (1) 224-4146A Oil Pump (8) 550P Cast Piston (1) 381-8059 Brass Expansion Plug Kit		
<b>505-6123A</b> (1) E-296K Premium Piston Ring Set (1) 260-1452 Gasket Kit (1) 1414M Camshaft Bearing Set (1) KC-648 Cam & Lifter Kit (1) KT3-168SA2 Timing Set - 3 Pc. (1) 224-41144 Oil Pump (8) H582P Cast Piston			<b>505-6136A</b> (1) E-384K Premium Piston Ring Set (1) 260-1463 Gasket Kit (1) 1756M Camshaft Bearing Set (1) KC-781 Cam & Lifter Kit (1) 221-2544S Timing Gear Set (4) H547CP Cast Piston (1) 381-8074 Brass Expansion Plug Kit			<b>505-6141A</b> (1) E-532K Premium Piston Ring Set (1) 260-1469 Gasket Kit (1) 1755M Camshaft Bearing Set (6) H558P Cast Piston (1) 381-8073 Brass Expansion Plug Kit			<b>505-6155A</b> (1) E-384K Premium Piston Ring Set (1) 260-1482 Gasket Kit (1) 1461M Camshaft Bearing Set (1) KC-782 Cam & Lifter Kit (1) 221-2542LS Timing Gear Set (1) 224-41239 Oil Pump (4) H547P Cast Piston (1) 381-8074 Brass Expansion Plug Kit		
<b>505-6124A</b> (1) E-296K Premium Piston Ring Set (1) 260-1453 Gasket Kit (1) 1414M Camshaft Bearing Set (1) KC-648 Cam & Lifter Kit (1) KT3-168SA2 Timing Set - 3 Pc. (1) 224-41144 Oil Pump (8) H582P Cast Piston (1) 381-8018 Brass Expansion Plug Kit			<b>505-614A</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2525S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6141E</b> (1) E-532K Premium Piston Ring Set (1) 260-1469 Gasket Kit (1) 1755M Camshaft Bearing Set (1) KT3-381S Timing Set - 3 Pc. (6) H558P Cast Piston (1) 381-8073 Brass Expansion Plug Kit			<b>505-6156A</b> (1) E-251K Premium Piston Ring Set (1) 260-1269 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-499S Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 423NP Cast Piston (1) 381-8059 Brass Expansion Plug Kit		
<b>505-613C</b> (1) E-233K Premium Piston Ring Set (1) 260-1009 Gasket Kit (1) 1404M Camshaft Bearing Set (1) KC-660 Cam & Lifter Kit (1) KT3-501SA Timing Set - 3 Pc. (1) 224-4154 Oil Pump (8) H661CP Cast Piston (1) 381-8009 Brass Expansion Plug Kit			<b>505-614C</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2528S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6148A</b> (1) E-288K Premium Piston Ring Set (1) 260-1477 Gasket Kit (1) 1466M Camshaft Bearing Set (1) KC-758 Cam & Lifter Kit (1) KT3-498SA3 Timing Set - 3 Pc. (1) 224-41203 Oil Pump (8) H801CP Cast Piston (1) 381-8020 Brass Expansion Plug Kit			<b>505-6156C</b> (1) E-251K Premium Piston Ring Set (1) 260-1269 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-45R46 Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 423NP Cast Piston (1) 381-8059 Brass Expansion Plug Kit		
<b>505-613E</b> (1) E-233K Premium Piston Ring Set (1) 260-1009 Gasket Kit (1) 1404M Camshaft Bearing Set (1) KC-774 Cam & Lifter Kit (1) KT3-501SA Timing Set - 3 Pc. (1) 224-4154 Oil Pump (8) H661CP Cast Piston (1) 381-8009 Brass Expansion Plug Kit			<b>505-614D</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1203M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2525S Timing Gear Set (1) 224-4147 Oil Pump (6) 1107P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6148D</b> (1) E-288K Premium Piston Ring Set (1) 260-1477 Gasket Kit (1) 1466M Camshaft Bearing Set (1) KC-850 Cam & Lifter Kit (1) KT3-498SA3 Timing Set - 3 Pc. (1) 224-41203 Oil Pump (8) H801CP Cast Piston (1) 381-8020 Brass Expansion Plug Kit			<b>505-6156D</b> (1) E-251K Premium Piston Ring Set (1) 260-1269 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-163S Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 423NP Cast Piston (1) 381-8059 Brass Expansion Plug Kit		
<b>505-6131A</b> (1) E-531K Premium Piston Ring Set (1) 260-1227 Gasket Kit (1) 1485M Camshaft Bearing Set (1) KC-811 Cam & Lifter Kit (1) KT3-370S Timing Set - 3 Pc. (1) 224-4151 Oil Pump (4) 569P Cast Piston			<b>505-614E</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-677 Cam & Lifter Kit (1) 221-2525S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6151A</b> (1) E-234K Premium Piston Ring Set (1) 260-1019 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-677 Cam & Lifter Kit (1) 221-2540S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6161A</b> (1) E-234K Premium Piston Ring Set (1) 260-1037 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-677 Cam & Lifter Kit (1) 221-2540S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit		
<b>505-6132C</b> (1) E-535K Premium Piston Ring Set (1) 260-1460 Gasket Kit (1) KC-831 Cam & Lifter Kit (1) KC-832 Cam & Lifter Kit (1) KT3-D130SA Timing Set - 3 Pc. (1) 224-43435 Oil Pump (4) H566P Cast Piston			<b>505-614F</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2540S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6151E</b> (1) E-234K Premium Piston Ring Set (1) 260-1019 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-633 Cam & Lifter Kit (1) 221-2540S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6181A</b> (1) E-243K Premium Piston Ring Set (1) 260-1016 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-499S Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 400AP Cast Piston (1) 381-8008 Brass Expansion Plug Kit		
<b>505-6134A</b> (1) E-384K Premium Piston Ring Set (1) 260-1464 Gasket Kit (1) 1461M Camshaft Bearing Set (1) KC-782 Cam & Lifter Kit (1) 221-2542LS Timing Gear Set (cont'd. next column)			<b>505-614G</b> (1) E-234K Premium Piston Ring Set (1) 260-1005 Gasket Kit (1) 1557M Camshaft Bearing Set (1) KC-677 Cam & Lifter Kit (1) 221-2540S Timing Gear Set (1) 224-4147 Oil Pump (6) 403P Cast Piston (1) 381-8006 Brass Expansion Plug Kit			<b>505-6151A</b> (1) E-377K Premium Piston Ring Set (1) 260-1478 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-808 Cam & Lifter Kit (1) KT3-499SA3 Timing Set - 3 Pc. (1) 224-4146A Oil Pump (8) 550P Cast Piston (cont'd. next column)			<b>505-618C</b> (1) E-243K Premium Piston Ring Set (1) 260-1016 Gasket Kit (1) 1235M Camshaft Bearing Set (1) KC-274 Cam & Lifter Kit (1) KT3-163S Timing Set - 3 Pc. (1) 224-4146 Oil Pump (8) 400AP Cast Piston (1) 381-8008 Brass Expansion Plug Kit		

# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-6183A</b>			<b>505-619E</b> (cont'd.)			<b>505-6217A</b>			<b>505-625C</b> (cont'd.)		
(1)	E-605K	Premium Piston Ring Set	(1)	224-4149	Oil Pump	(1)	E-454K	Premium Piston Ring Set	(1)	KC-674	Cam & Lifter Kit
(1)	260-1233	Gasket Kit	(8)	235NP	Cast Piston	(1)	260-1616	Gasket Kit	(1)	K73-358SA	Timing Set - 3 Pc.
(1)	1492M	Camshaft Bearing Set	(1)	381-8007	Brass Expansion Plug Kit	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	224-41143	Oil Pump
(1)	KC-1539	Cam & Lifter Kit	<b>505-619F</b>			(1)	KC-785C	Cam, Lifter & Follower Kit	(8)	416P	Cast Piston
(1)	K73-372S	Timing Set - 3 Pc.	(1)	E-245K	Premium Piston Ring Set	(1)	222-153	Timing Belt	(1)	381-8015	Brass Expansion Plug Kit
(1)	224-4148	Oil Pump	(1)	260-1000	Gasket Kit	(1)	224-4168	Oil Pump	<b>505-625D</b>		
(6)	H561P	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	527P	Cast Piston	(1)	E-251K	Premium Piston Ring Set
<b>505-6184A</b>			(1)	KC-274	Cam & Lifter Kit	<b>505-622C</b>			(1)	260-1028	Gasket Kit
(1)	E-605K	Premium Piston Ring Set	(1)	K73-499S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	1204M	Camshaft Bearing Set
(1)	260-1466	Gasket Kit	(1)	224-4146	Oil Pump	(1)	260-1033	Gasket Kit	(1)	KC-674	Cam & Lifter Kit
(1)	1492M	Camshaft Bearing Set	(8)	235NP	Cast Piston	(1)	1484M	Camshaft Bearing Set	(1)	K73-358S	Timing Set - 3 Pc.
(1)	KC-715	Cam & Lifter Kit	(1)	381-8007	Brass Expansion Plug Kit	(1)	KC-665	Cam & Lifter Kit	(1)	224-41143	Oil Pump
(1)	K73-372S	Timing Set - 3 Pc.	<b>505-619G</b>			(1)	K73-361S	Timing Set - 3 Pc.	(8)	336P	Cast Piston
(6)	H562CP	Cast Piston	(1)	E-245K	Premium Piston Ring Set	(1)	224-4166	Oil Pump	(1)	381-8015	Brass Expansion Plug Kit
<b>505-6184B</b>			(1)	260-1000	Gasket Kit	(8)	405P	Cast Piston	<b>505-6250A</b>		
(1)	E-605K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	381-8010	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set
(1)	260-1466	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	<b>505-6222A</b>			(1)	260-1169	Gasket Kit
(1)	1492M	Camshaft Bearing Set	(1)	K73-499S	Timing Set - 3 Pc.	(1)	E-532K	Premium Piston Ring Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-715	Cam & Lifter Kit	(1)	224-4149	Oil Pump	(1)	260-1566	Gasket Kit	(1)	KC-668	Cam & Lifter Kit
(1)	K73-372S	Timing Set - 3 Pc.	(8)	235NP	Cast Piston	(1)	1755M	Camshaft Bearing Set	(1)	K73-358SA	Timing Set - 3 Pc.
(1)	224-4152	Oil Pump	(1)	381-8007	Brass Expansion Plug Kit	(1)	K73-381S	Timing Set - 3 Pc.	(1)	224-41118	Oil Pump
(6)	H562CP	Cast Piston	<b>505-620A</b>			(1)	H558P	Cast Piston	(8)	H654P	Cast Piston
(1)	381-8085	Brass Expansion Plug Kit	(1)	E-245K	Premium Piston Ring Set	(6)	381-8073	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
<b>505-6184C</b>			(1)	260-1000	Gasket Kit	<b>505-624G</b>			<b>505-6251A</b>		
(1)	E-605K	Premium Piston Ring Set	(1)	1235M	Camshaft Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	260-1466	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	1492M	Camshaft Bearing Set	(1)	K73-499S	Timing Set - 3 Pc.	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-1539	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	K73-368S	Timing Set - 3 Pc.	(8)	295P	Cast Piston	(1)	K73-498SA2	Timing Set - 3 Pc.	(1)	K73-358SA	Timing Set - 3 Pc.
(6)	H562CP	Cast Piston	(1)	381-8007	Brass Expansion Plug Kit	(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
<b>505-6186A</b>			<b>505-6205B</b>			(8)	451P	Cast Piston	(8)	H654P	Cast Piston
(1)	E-476K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	260-1526	Gasket Kit	(1)	260-1616	Gasket Kit	<b>505-624J</b>			<b>505-6251C</b>		
(1)	1443M	Camshaft Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	260-1014	Gasket Kit	(1)	260-1451	Gasket Kit
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	222-153	Timing Belt	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	222-14	Timing Belt	(1)	224-4168	Oil Pump	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	224-41160	Oil Pump	(4)	571CP	Cast Piston	(1)	K73-498SA2	Timing Set - 3 Pc.	(1)	K73-163SA1	Timing Set - 3 Pc.
(4)	H491P	Cast Piston	<b>505-6205C</b>			(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
(1)	381-8029	Brass Expansion Plug Kit	(1)	E-454K	Premium Piston Ring Set	(8)	451P	Cast Piston	(8)	H654P	Cast Piston
<b>505-619A</b>			(1)	260-1616	Gasket Kit	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	E-245K	Premium Piston Ring Set	(1)	1487M	Auxiliary Shaft Bearing Set	<b>505-624M</b>			<b>505-6253A</b>		
(1)	260-1000	Gasket Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	E-251K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	1145M	Camshaft Bearing Set	(1)	222-153	Timing Belt	(1)	260-1014	Gasket Kit	(1)	260-1559	Gasket Kit
(1)	KC-274	Cam & Lifter Kit	(1)	224-4168	Oil Pump	(1)	1403M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	K73-489S	Timing Set - 3 Pc.	(4)	527P	Cast Piston	(1)	KC-667	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	224-4146	Oil Pump	<b>505-6206A</b>			(1)	K73-498SA2	Timing Set - 3 Pc.	(1)	K73-163SA1	Timing Set - 3 Pc.
(8)	235NP	Cast Piston	(1)	E-529K	Premium Piston Ring Set	(1)	224-41166	Oil Pump	(1)	224-41118	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1646	Gasket Kit	(8)	427P	Cast Piston	(8)	H654P	Cast Piston
<b>505-619C</b>			(1)	1809M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	E-245K	Premium Piston Ring Set	(1)	KC-1503	Cam & Lifter Kit	<b>505-624P</b>			<b>505-6257A</b>		
(1)	260-1000	Gasket Kit	(1)	K73-388S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	E-468K	Premium Piston Ring Set
(1)	1145M	Camshaft Bearing Set	(1)	224-51384	Oil Pump Repair Kit	(1)	260-1014	Gasket Kit	(1)	260-1619	Gasket Kit
(1)	KC-273	Cam & Lifter Kit	(6)	574CP	Cast Piston	(1)	1403M	Camshaft Bearing Set	(1)	1496M	Camshaft Bearing Set
(1)	K73-489S	Timing Set - 3 Pc.	(1)	381-8060	Brass Expansion Plug Kit	(1)	KC-667	Cam & Lifter Kit	(1)	KC-770	Cam & Lifter Kit
(1)	224-4146	Oil Pump	<b>505-6212A</b>			(1)	K73-494SA2	Timing Set - 3 Pc.	(1)	K73-181S	Timing Set - 3 Pc.
(8)	235NP	Cast Piston	(1)	E-446K	Premium Piston Ring Set	(1)	224-41166	Oil Pump	(1)	224-43424	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	260-1556	Gasket Kit	(8)	427P	Cast Piston	(8)	H587P	Cast Piston
<b>505-619D</b>			(1)	1843M	Camshaft Bearing Set	(1)	381-8016	Brass Expansion Plug Kit	(1)	381-8057	Brass Expansion Plug Kit
(1)	E-245K	Premium Piston Ring Set	(1)	KC-787	Cam & Lifter Kit	<b>505-625A</b>			<b>505-6263A</b>		
(1)	260-1000	Gasket Kit	(1)	K73-374S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	E-613K	Premium Piston Ring Set
(1)	1235M	Camshaft Bearing Set	(6)	H497P	Cast Piston	(1)	260-1028	Gasket Kit	(1)	260-1652	Gasket Kit
(1)	KC-274	Cam & Lifter Kit	(1)	381-8072	Brass Expansion Plug Kit	(1)	1204M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	K73-489S	Timing Set - 3 Pc.	<b>505-6215A</b>			(1)	KC-674	Cam & Lifter Kit	(1)	KC-1511	Cam & Lifter Kit
(1)	224-4146	Oil Pump	(1)	E-458K	Premium Piston Ring Set	(1)	K73-358S	Timing Set - 3 Pc.	(1)	K73-64S	Timing Set - 3 Pc.
(8)	235NP	Cast Piston	(1)	260-1559	Gasket Kit	(1)	224-41143	Oil Pump	(1)	224-43431	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	1204M	Camshaft Bearing Set	(8)	416P	Cast Piston	(6)	H570P	Cast Piston
<b>505-619E</b>			(1)	KC-668	Cam & Lifter Kit	<b>505-625C</b>			<b>505-6264A</b>		
(1)	E-245K	Premium Piston Ring Set	(1)	K73-163SA1	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	E-613K	Premium Piston Ring Set
(1)	260-1000	Gasket Kit	(1)	224-41118	Oil Pump	(1)	260-1028	Gasket Kit	(1)	260-1652	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(8)	517CP	Cast Piston	(1)	1204M	Camshaft Bearing Set	(1)	1844M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	381-8015	Brass Expansion Plug Kit	<b>505-625C</b>			(1)	KC-1510	Cam & Lifter Kit
(1)	K73-489S	Timing Set - 3 Pc.	<b>505-619E</b>			(1)	E-251K	Premium Piston Ring Set	(1)	K73-64S	Timing Set - 3 Pc.
			(cont'd. next column)						(cont'd. next page)		



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-653A</b> (cont'd.)			<b>505-658C</b> (cont'd.)			<b>505-686C</b> (cont'd.)			<b>505-7003</b> (cont'd.)		
(8)	272AP	Cast Piston	(1)	381-8007	Brass Expansion Plug Kit	(1)	KC-636	Cam & Lifter Kit	(1)	K73-372S	Timing Set - 3 Pc.
(1)	381-8015	Brass Expansion Plug Kit	<b>505-660A</b>			(1)	K73-501SA	Timing Set - 3 Pc.	(1)	224-4152	Oil Pump
<b>505-653D</b>			(1)	E-233K	Premium Piston Ring Set	(1)	224-4154	Oil Pump	(6)	H561CP	Cast Piston
(1)	E-251K	Premium Piston Ring Set	(1)	260-1046	Gasket Kit	(1)	460P	Cast Piston	(1)	381-8085	Brass Expansion Plug Kit
(1)	260-1125	Gasket Kit	(1)	1404M	Camshaft Bearing Set	<b>505-692A</b>			<b>505-7012</b>		
(1)	1204M	Camshaft Bearing Set	(1)	KC-774	Cam & Lifter Kit	(1)	E-414K	Premium Piston Ring Set	(1)	E-229K	Premium Piston Ring Set
(1)	KC-560	Cam & Lifter Kit	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1101	Gasket Kit	(1)	260-1240	Gasket Kit
(1)	KT3-358S	Timing Set - 3 Pc.	(8)	H661CP	Cast Piston	(1)	1463M	Camshaft Bearing Set	(1)	1463M	Camshaft Bearing Set
(1)	224-41118	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(1)	KC-712	Cam & Lifter Kit	(1)	KC-783	Cam & Lifter Kit
(8)	272AP	Cast Piston	<b>505-661A</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	KT3-499SA6	Timing Set - 3 Pc.
(1)	381-8015	Brass Expansion Plug Kit	(1)	E-243K	Premium Piston Ring Set	(1)	224-4146	Oil Pump	(1)	224-4146	Oil Pump
<b>505-653F</b>			(1)	260-1009	Gasket Kit	(6)	698P 30	Cast Piston	(1)	381-8058	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	1404M	Camshaft Bearing Set	<b>505-695A</b>			<b>505-7021</b>		
(1)	260-1125	Gasket Kit	(1)	KC-774	Cam & Lifter Kit	(1)	E-378K	Premium Piston Ring Set	(1)	E-356K	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	(1)	KT3-501SA	Timing Set - 3 Pc.	(1)	260-1104	Gasket Kit	(1)	260-1246	Gasket Kit
(1)	KC-560	Cam & Lifter Kit	(1)	224-4154	Oil Pump	(1)	1466M	Camshaft Bearing Set	(1)	1235M	Camshaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	402P	Cast Piston	(1)	KC-707	Cam & Lifter Kit	(1)	KC-711	Cam & Lifter Kit
(1)	224-41118	Oil Pump	(1)	381-8009	Brass Expansion Plug Kit	(1)	KT3-498SA3	Timing Set - 3 Pc.	(1)	KT3-499S	Timing Set - 3 Pc.
(8)	272AP	Cast Piston	<b>505-662A</b>			(1)	224-41203	Oil Pump	(1)	224-4346P	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	E-251K	Premium Piston Ring Set	(8)	466NP	Cast Piston	(8)	536NP	Cast Piston
<b>505-653G</b>			(1)	260-1000	Gasket Kit	(1)	381-8047	Brass Expansion Plug Kit	(1)	381-8059	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	1145M	Camshaft Bearing Set	<b>505-699A</b>			<b>505-7028</b>		
(1)	260-1125	Gasket Kit	(1)	KC-274	Cam & Lifter Kit	(1)	E-411K	Premium Piston Ring Set	(1)	E-233K	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	(1)	KT3-489S	Timing Set - 3 Pc.	(1)	260-1123	Gasket Kit	(1)	260-1418	Gasket Kit
(1)	KC-668	Cam & Lifter Kit	(1)	224-4146	Oil Pump	(1)	1492M	Camshaft Bearing Set	(1)	1404M	Camshaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	(8)	310NP	Cast Piston	(1)	KC-715	Cam & Lifter Kit	(1)	KC-774	Cam & Lifter Kit
(1)	224-41118	Oil Pump	<b>505-662C</b>			(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-507S	Timing Set - 3 Pc.
(8)	272AP	Cast Piston	(1)	E-251K	Premium Piston Ring Set	(1)	224-4148	Oil Pump	(8)	224-4154G	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	260-1000	Gasket Kit	(6)	464P	Cast Piston	(1)	H518CP	Cast Piston
<b>505-653H</b>			(1)	1235M	Camshaft Bearing Set	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8009	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	KC-274	Cam & Lifter Kit	<b>505-699C</b>			<b>505-7032</b>		
(1)	260-1125	Gasket Kit	(1)	KT3-489S	Timing Set - 3 Pc.	(1)	E-411K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	(1)	224-4146	Oil Pump	(1)	260-1123	Gasket Kit	(1)	260-1437	Gasket Kit
(1)	KC-668	Cam & Lifter Kit	(8)	310NP	Cast Piston	(1)	1492M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set
(1)	KT3-358SA	Timing Set - 3 Pc.	<b>505-662E</b>			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit
(1)	224-41118	Oil Pump	(1)	E-251K	Premium Piston Ring Set	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.
(8)	273AP	Cast Piston	(1)	260-1000	Gasket Kit	(1)	224-4148	Oil Pump	(1)	224-41100	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	1235M	Camshaft Bearing Set	(6)	464P	Cast Piston	(4)	489P	Cast Piston
<b>505-653J</b>			(1)	KC-274	Cam & Lifter Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8063	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	KT3-489S	Timing Set - 3 Pc.	<b>505-7000</b>			<b>505-7033</b>		
(1)	260-1125	Gasket Kit	(1)	224-4149	Oil Pump	(1)	E-605K	Premium Piston Ring Set	(1)	E-446K	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	(8)	310NP	Cast Piston	(1)	260-1466	Gasket Kit	(1)	260-1556	Gasket Kit
(1)	KC-560	Cam & Lifter Kit	<b>505-662F</b>			(1)	1492M	Camshaft Bearing Set	(1)	1843M	Camshaft Bearing Set
(1)	KT3-356S	Timing Set - 3 Pc.	(1)	E-251K	Premium Piston Ring Set	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-787	Cam & Lifter Kit
(1)	224-41118	Oil Pump	(1)	260-1000	Gasket Kit	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-374S	Timing Set - 3 Pc.
(8)	273AP	Cast Piston	(1)	1235M	Camshaft Bearing Set	(1)	224-4148	Oil Pump	(1)	224-43636S	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	KC-274	Cam & Lifter Kit	(6)	H562CP	Cast Piston	(1)	H497P	Cast Piston
<b>505-653L</b>			(1)	KT3-499S	Timing Set - 3 Pc.	(1)	381-8085	Brass Expansion Plug Kit	(6)	381-8072	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(1)	224-4149	Oil Pump	<b>505-7001</b>			<b>505-7044</b>		
(1)	260-1125	Gasket Kit	(8)	310NP	Cast Piston	(1)	E-605K	Premium Piston Ring Set	(1)	E-458K	Premium Piston Ring Set
(1)	1204M	Camshaft Bearing Set	<b>505-683C</b>			(1)	260-1466	Gasket Kit	(1)	260-1445	Gasket Kit
(1)	KC-560	Cam & Lifter Kit	(1)	E-251K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KT3-358S	Timing Set - 3 Pc.	(1)	260-1095	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-759	Cam & Lifter Kit
(1)	224-41118	Oil Pump	(1)	1484M	Camshaft Bearing Set	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-163SA1	Timing Set - 3 Pc.
(8)	273AP	Cast Piston	(1)	KC-665	Cam & Lifter Kit	(1)	224-4152	Oil Pump	(1)	224-41118	Oil Pump
(1)	381-8015	Brass Expansion Plug Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(6)	H562CP	Cast Piston	(1)	506P	Cast Piston
<b>505-658A</b>			(1)	224-4166	Oil Pump	(1)	381-8085	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
(1)	E-251K	Premium Piston Ring Set	(8)	405P	Cast Piston	<b>505-7002</b>			<b>505-7050</b>		
(1)	260-1045	Gasket Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	E-605K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set
(1)	1235M	Camshaft Bearing Set	<b>505-686A</b>			(1)	260-1233	Gasket Kit	(1)	260-1192	Gasket Kit
(1)	KC-274	Cam & Lifter Kit	(1)	E-232K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	KT3-499S	Timing Set - 3 Pc.	(1)	260-1009	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-779	Cam & Lifter Kit
(1)	224-4146	Oil Pump	(1)	1255M	Camshaft Bearing Set	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.
(8)	423NP	Cast Piston	(1)	KC-636	Cam & Lifter Kit	(1)	224-4148	Oil Pump	(1)	224-41198	Oil Pump
(1)	381-8007	Brass Expansion Plug Kit	(1)	224-4154	Oil Pump	(6)	H561CP	Cast Piston	(4)	525CP	Cast Piston
<b>505-658B</b>			(1)	460P	Cast Piston	<b>505-7003</b>			<b>505-7053</b>		
(1)	E-251K	Premium Piston Ring Set	(8)	381-8009	Brass Expansion Plug Kit	(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(1)	260-1045	Gasket Kit	<b>505-686C</b>			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(1)	1235M	Camshaft Bearing Set	(1)	E-232K	Premium Piston Ring Set	(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(1)	KC-274	Cam & Lifter Kit	(1)	260-1009	Gasket Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(1)	KT3-163S	Timing Set - 3 Pc.	(1)	1404M	Camshaft Bearing Set	<b>505-7003</b>			(1)	KT3-4SR48	Timing Set - 3 Pc.
(1)	224-4146	Oil Pump	(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(8)	423NP	Cast Piston	(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	1492M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set
(cont'd. next column)			(cont'd. next column)			(1)	KC-1539	Cam & Lifter Kit	(1)	KC-809	Cam & Lifter Kit
(cont'd. next column)			(cont'd. next column)			<b>505-7003</b>			<b>505-7053</b>		
(cont'd. next column)			(cont'd. next column)			(1)	E-605K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set
(cont'd. next column)			(cont'd. next column)			(1)	260-1233	Gasket Kit	(1)	260-1424	Gasket Kit
(cont'd. next column)			(cont'd. next column)			(1)	14				



# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-7053</b> (cont'd.)			<b>505-716A</b> (cont'd.)			<b>505-724A</b> (cont'd.)			<b>505-743A</b> (cont'd.)		
(1)	224-41198	Oil Pump	(1)	1244M	Camshaft Bearing Set	(1)	KT3-359SA1	Timing Set - 3 Pc.	(1)	224-4166	Oil Pump
(6)	677CP	Cast Piston	(1)	KC-713	Cam & Lifter Kit	(1)	224-518	Oil Pump Repair Kit	(8)	285NP	Cast Piston
(1)	381-8084	Brass Expansion Plug Kit	(1)	KT3-494S	Timing Set - 3 Pc.	(6)	450NP	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit
<b>505-7057</b>			<b>505-717C</b>			<b>505-727C</b>			<b>505-744C</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set
(1)	260-1427	Gasket Kit	(1)	260-1153	Gasket Kit	(1)	260-1143	Gasket Kit	(1)	260-1154	Gasket Kit
(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-645	Cam & Lifter Kit	(1)	KT3-715	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.
(1)	222-153	Timing Belt	(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-4166	Oil Pump
(1)	224-4168	Oil Pump	(8)	285NP	Cast Piston	(6)	516P	Cast Piston	(8)	285NP	Cast Piston
(4)	527P	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit
(1)	381-8050	Brass Expansion Plug Kit									
<b>505-7058</b>			<b>505-718A</b>			<b>505-728C</b>			<b>505-746C</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-425KC 1.00MM	Premium Piston Ring Set
(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1156	Gasket Kit
(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	CS-769	Camshaft
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-645	Cam & Lifter Kit	(1)	KC-715	Cam & Lifter Kit	(1)	KT-1013S	Timing Set - Complete
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KT-1014S	Timing Set
(1)	222-153	Timing Belt	(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	224-41914	Oil Pump
(1)	224-4168	Oil Pump	(8)	285NP	Cast Piston	(6)	516P	Cast Piston	(4)	H589P .50MM	Cast Piston
(4)	527P	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8051	Brass Expansion Plug Kit
(1)	381-8050	Brass Expansion Plug Kit									
<b>505-7059</b>			<b>505-718C</b>			<b>505-728E</b>			<b>505-752A</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-352K	Premium Piston Ring Set
(1)	260-1616	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1161	Gasket Kit
(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KC-645	Cam & Lifter Kit	(1)	KC-1539	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	KT3-368S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	222-153	Timing Belt	(1)	224-4166	Oil Pump	(1)	224-4148	Oil Pump	(1)	222-14	Timing Belt
(1)	224-4168	Oil Pump	(8)	285NP	Cast Piston	(1)	224-4148	Oil Pump	(1)	224-41160	Oil Pump
(4)	571CP	Cast Piston	(1)	381-8010	Brass Expansion Plug Kit	(6)	516P	Cast Piston	(4)	H435P	Cast Piston
(1)	381-8050	Brass Expansion Plug Kit				(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8029	Brass Expansion Plug Kit
<b>505-7060</b>			<b>505-718H</b>			<b>505-728G</b>			<b>505-753A</b>		
(1)	E-454K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-432K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set
(1)	260-1427	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1144	Gasket Kit	(1)	260-1162	Gasket Kit
(1)	1840M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1492M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set
(1)	1487M	Auxiliary Shaft Bearing Set	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KC-1539	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set
(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	224-4166	Oil Pump	(1)	KT3-372S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit
(1)	222-153	Timing Belt	(8)	526P	Cast Piston	(1)	224-4148	Oil Pump	(1)	222-14	Timing Belt
(1)	224-4168	Oil Pump	(1)	381-8010	Brass Expansion Plug Kit	(6)	516P	Cast Piston	(1)	224-41127	Oil Pump
(4)	571CP	Cast Piston				(1)	381-8046	Brass Expansion Plug Kit	(4)	H537P	Cast Piston
(1)	381-8050	Brass Expansion Plug Kit				(1)	381-8046	Brass Expansion Plug Kit	(1)	381-8029	Brass Expansion Plug Kit
<b>505-7062</b>			<b>505-718J</b>			<b>505-739A</b>			<b>505-757A</b>		
(1)	E-178K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set
(1)	260-1430	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1166	Gasket Kit
(1)	1484M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set
(1)	KC-1565	Cam & Lifter Kit	(1)	KC-1556	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	1493M	Camshaft Bearing Set
(1)	KT3-380S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	221-2528S	Timing Gear Set	(1)	KC-733	Cam & Lifter Kit
(1)	224-4166	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-4147	Oil Pump	(1)	KT3-365SA	Timing Set - 3 Pc.
(8)	526P	Cast Piston	(8)	526P	Cast Piston	(6)	403P	Cast Piston	(1)	224-51162	Oil Pump Repair Kit
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(6)	481P	Cast Piston
									(1)	381-8053	Brass Expansion Plug Kit
<b>505-713A</b>			<b>505-718K</b>			<b>505-739C</b>			<b>505-758A</b>		
(1)	E-286K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set
(1)	260-1121	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1167	Gasket Kit
(1)	1484M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1493M	Camshaft Bearing Set
(1)	KC-644	Cam & Lifter Kit	(1)	KC-1556	Cam & Lifter Kit	(1)	KC-677	Cam & Lifter Kit	(1)	KC-748	Cam & Lifter Kit
(1)	KT3-160S	Timing Set - 3 Pc.	(1)	KT3-361S	Timing Set - 3 Pc.	(1)	221-2540S	Timing Gear Set	(1)	KT3-365SA	Timing Set - 3 Pc.
(1)	224-4166	Oil Pump	(1)	224-4166	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-51162	Oil Pump Repair Kit
(8)	L-2316F 20	Power Forged Piston	(8)	526P	Cast Piston	(6)	403P	Cast Piston	(6)	490P .50MM	Cast Piston
(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit
<b>505-715A</b>			<b>505-718L</b>			<b>505-739D</b>			<b>505-760A</b>		
(1)	E-301K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-234K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	260-1151	Gasket Kit	(1)	260-1152	Gasket Kit	(1)	260-1129	Gasket Kit	(1)	260-1169	Gasket Kit
(1)	1401M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1557M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
(1)	KC-646	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit	(1)	KC-633	Cam & Lifter Kit	(1)	KC-668	Cam & Lifter Kit
(1)	KT3-369S	Timing Set - 3 Pc.	(1)	KT3-160S	Timing Set - 3 Pc.	(1)	221-2540S	Timing Gear Set	(1)	KT3-358SA	Timing Set - 3 Pc.
(1)	224-51285	Oil Pump Repair Kit	(1)	224-4166	Oil Pump	(1)	224-4147	Oil Pump	(1)	224-41118	Oil Pump
(8)	362NP	Cast Piston	(8)	526P	Cast Piston	(6)	403P	Cast Piston	(8)	273AP	Cast Piston
(1)	381-8001	Brass Expansion Plug Kit	(1)	381-8010	Brass Expansion Plug Kit	(1)	381-8006	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit
<b>505-716A</b>			<b>505-724A</b>			<b>505-743A</b>			<b>505-761A</b>		
(1)	E-222K	Premium Piston Ring Set	(1)	E-369K	Premium Piston Ring Set	(1)	E-178K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set
(1)	260-1134	Gasket Kit	(1)	260-1149	Gasket Kit	(1)	260-1121	Gasket Kit	(1)	260-1170	Gasket Kit
			(1)	1462M	Camshaft Bearing Set	(1)	1484M	Camshaft Bearing Set	(1)	1204M	Camshaft Bearing Set
			(1)	KC-702	Cam & Lifter Kit	(1)	KC-645	Cam & Lifter Kit	(1)	KC-674	Cam & Lifter Kit

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# Engine Kit Bill of Material

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>505-761A</b> (cont'd.)			<b>505-858A</b> (cont'd.)			<b>505-879C</b> (cont'd.)					
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit			
(1)	224-41143	Oil Pump	(1)	224-41198	Oil Pump	(1)	222-14	Timing Belt			
(8)	463P	Cast Piston	(4)	525P	Cast Piston	(1)	224-41160V	Oil Pump			
(1)	381-8015	Brass Expansion Plug Kit				(4)	L-2500F .50MM	Power Forged Piston			
<b>505-761C</b>			<b>505-859A</b>			<b>505-880A</b>					
(1)	E-251K	Premium Piston Ring Set	(1)	E-450K	Premium Piston Ring Set	(1)	E-441K	Premium Piston Ring Set			
(1)	260-1170	Gasket Kit	(1)	260-1192	Gasket Kit	(1)	260-1162	Gasket Kit			
(1)	1204M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set			
(1)	KC-764	Cam & Lifter Kit	(1)	KC-779	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set			
(1)	KT3-163SA1	Timing Set - 3 Pc.	(1)	KT3-3SR64S	Timing Set - 3 Pc.	(1)	KC-767C	Cam, Lifter & Follower Kit			
(1)	224-41143	Oil Pump	(1)	224-41198	Oil Pump	(1)	222-14	Timing Belt			
(8)	463P	Cast Piston	(4)	525P	Cast Piston	(1)	224-41160V	Oil Pump			
(1)	381-8015	Brass Expansion Plug Kit				(4)	L-2500F .50MM	Power Forged Piston			
<b>505-761D</b>			<b>505-860A</b>			<b>505-883A</b>					
(1)	E-251K	Premium Piston Ring Set	(1)	E-222K	Premium Piston Ring Set	(1)	E-465K	Premium Piston Ring Set			
(1)	260-1170	Gasket Kit	(1)	260-1193	Gasket Kit	(1)	260-1208	Gasket Kit			
(1)	1204M	Camshaft Bearing Set	(1)	1244M	Camshaft Bearing Set	(1)	1494M	Camshaft Bearing Set			
(1)	KC-764	Cam & Lifter Kit	(1)	KC-713	Cam & Lifter Kit	(1)	KC-788	Cam & Lifter Kit			
(1)	KT3-163SA	Timing Set - 3 Pc.	(1)	KT3-494S	Timing Set - 3 Pc.	(1)	KT3-505S	Timing Set - 3 Pc.			
(1)	224-41143	Oil Pump	(1)	224-41198	Oil Pump	(1)	224-41100	Oil Pump			
(8)	463P	Cast Piston	(6)	470NP	Cast Piston	(4)	489P	Cast Piston			
(1)	381-8015	Brass Expansion Plug Kit	(1)	381-8000	Brass Expansion Plug Kit						
<b>505-763A</b>			<b>505-868C</b>			<b>505-886A</b>					
(1)	E-352K	Premium Piston Ring Set	(1)	E-453K	Premium Piston Ring Set	(1)	E-415K	Premium Piston Ring Set			
(1)	260-1172	Gasket Kit	(1)	260-1276	Gasket Kit	(1)	260-1211	Gasket Kit			
(1)	1443M	Camshaft Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1493M	Camshaft Bearing Set			
(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-775C	Cam, Lifter & Follower Kit	(1)	KC-748	Cam & Lifter Kit			
(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	222-71	Timing Belt	(1)	KT3-365SA	Timing Set - 3 Pc.			
(1)	222-14	Timing Belt	(1)	224-4168	Oil Pump	(1)	224-51162	Oil Pump Repair Kit			
(1)	224-41160	Oil Pump	(4)	533P	Cast Piston	(6)	490P .50MM	Cast Piston			
(4)	H435P	Cast Piston	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8053	Brass Expansion Plug Kit			
(1)	381-8029	Brass Expansion Plug Kit									
<b>505-765C</b>			<b>505-869C</b>			<b>505-888A</b>					
(1)	E-229K	Premium Piston Ring Set	(1)	E-454K	Premium Piston Ring Set	(1)	E-251K	Premium Piston Ring Set			
(1)	260-1174	Gasket Kit	(1)	260-1093	Gasket Kit	(1)	260-1213A	Gasket Kit			
(1)	1781M	Camshaft Bearing Set	(1)	1487M	Auxiliary Shaft Bearing Set	(1)	1204M	Camshaft Bearing Set			
(1)	KC-1230	Cam & Lifter Kit	(1)	KC-785C	Cam, Lifter & Follower Kit	(1)	KC-761	Cam & Lifter Kit			
(1)	221-2764S	Timing Gear Set	(1)	222-71	Timing Belt	(1)	KT3-163SA	Timing Set - 3 Pc.			
(1)	224-41124	Oil Pump	(1)	224-4168	Oil Pump	(1)	224-41118	Oil Pump			
(6)	H519P	Cast Piston	(4)	527P	Cast Piston	(8)	H273CP	Cast Piston			
(1)	381-8014	Brass Expansion Plug Kit	(1)	381-8050	Brass Expansion Plug Kit	(1)	381-8015	Brass Expansion Plug Kit			
<b>505-768A</b>			<b>505-878A</b>			<b>505-891A</b>					
(1)	E-296K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set	(1)	E-476K	Premium Piston Ring Set			
(1)	260-1177	Gasket Kit	(1)	260-1206	Gasket Kit	(1)	260-1214	Gasket Kit			
(1)	1414M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set			
(1)	KC-648	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set			
(1)	KT3-491S	Timing Set - 3 Pc.	(1)	KC-666C	Cam, Lifter & Follower Kit	(1)	KC-767C	Cam, Lifter & Follower Kit			
(1)	224-41144	Oil Pump	(1)	222-14	Timing Belt	(1)	222-14	Timing Belt			
(8)	H418P	Cast Piston	(1)	224-41127	Oil Pump	(1)	224-41160	Oil Pump			
(1)	381-8018	Brass Expansion Plug Kit	(4)	H537P	Cast Piston	(4)	H491P	Cast Piston			
<b>505-774A</b>			<b>505-878C</b>			<b>505-896A</b>					
(1)	E-251K	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set	(1)	E-442KC	Premium Piston Ring Set			
(1)	260-1189	Gasket Kit	(1)	260-1206	Gasket Kit	(1)	260-1218	Gasket Kit			
(1)	1204M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set			
(1)	KC-674	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	1460M	Auxiliary Shaft Bearing Set			
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	KC-767C	Cam, Lifter & Follower Kit			
(1)	224-41143	Oil Pump	(1)	222-14	Timing Belt	(1)	222-14	Timing Belt			
(8)	416P	Cast Piston	(1)	224-41160V	Oil Pump	(1)	224-41127	Oil Pump			
(1)	381-8015	Brass Expansion Plug Kit	(4)	H537P	Cast Piston	(4)	H537P	Cast Piston			
<b>505-774C</b>			<b>505-879A</b>			<b>505-898C</b>					
(1)	E-251K	Premium Piston Ring Set	(1)	E-441K	Premium Piston Ring Set	(1)	E-481K	Premium Piston Ring Set			
(1)	260-1189	Gasket Kit	(1)	260-1206	Gasket Kit	(1)	260-1220	Gasket Kit			
(1)	1204M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set	(1)	1838M	Camshaft Bearing Set			
(1)	KC-674	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set	(1)	KC-814	Cam & Lifter Kit			
(1)	KT3-358SA	Timing Set - 3 Pc.	(1)	KC-767C	Cam, Lifter & Follower Kit	(1)	KT3-60S	Timing Set - 3 Pc.			
(1)	224-41143	Oil Pump	(1)	222-14	Timing Belt	(1)	224-43431	Oil Pump			
(8)	463P	Cast Piston	(1)	224-41160V	Oil Pump	(6)	520P	Cast Piston			
(1)	381-8015	Brass Expansion Plug Kit	(4)	L-2500F .50MM	Power Forged Piston	(1)	381-8064	Brass Expansion Plug Kit			
<b>505-858A</b>			<b>505-879C</b>								
(1)	E-450K	Premium Piston Ring Set	(1)	E-441K	Premium Piston Ring Set						
(1)	260-1191	Gasket Kit	(1)	260-1206	Gasket Kit						
(1)	1244M	Camshaft Bearing Set	(1)	1443M	Camshaft Bearing Set						
(1)	KC-779	Cam & Lifter Kit	(1)	1460M	Auxiliary Shaft Bearing Set						
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# MANUFACTURER ABBREVIATIONS

Manufacturer Abbreviation	Manufacturer Full Name	Manufacturer Abbreviation	Manufacturer Full Name	Manufacturer Abbreviation	Manufacturer Full Name
ALF	Alfa Romeo	IST	Isuzu Truck	SB	Subaru Car
AMC	American Motors	JAG	Jaguar	SBT	Subaru Truck
AUD	Audi	JEE	Jeep	SM	Standard Motors
BL	British Leyland	LAD	Lada	ST	Studebaker Car
BMW	BMW	MB	Mercedes-Benz	STT	Studebaker Truck
CHM	Chrysler Marine	MER	Mercury Marine	SZ	Suzuki Car
CHR	Chrysler Car	MI	Mitsubishi Car	SZT	Suzuki Truck
DAI	Daihatsu	MIT	Mitsubishi Truck	TO	Toyota Car
DAT	Daihatsu Truck	MZ	Mazda Car	TOT	Toyota Truck
DT	Dodge Truck	MZT	Mazda Truck	VOL	Volvo Car
FIA	Fiat	NI	Nissan Car	VOM	Volvo Marine
FO	Ford Car	NIT	Nissan Truck	VW	VW Car
FOT	Ford Truck	OMC	OMC Marine	VWT	VW Truck
GM	GM Car	OP	Opel	YU	Yugo
GMT	GM Truck	PEU	Peugeot		
HIN	Hino	POR	Porsche		
HO	Honda Car	REN	Renault		
IH	International Truck	ROV	Rover Truck		
IS	Isuzu Car	SAB	Saab		

Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.
AT-2000	FO 42, 44, 63	BKP-6098*	GMT 54	BKP-6290*	MZT 5
AT-2000B	FO 42, 44, 63	BKP-6104*	FO 7	BKP-6301*	DT 10, MIT 5
AT-2041	IH 8, 11, 16	BKP-6110*	FOT 5	BKP-6303*	NI 13
AT-2084	AMC 10, 15, CHR 22, 24, 27, 35, 37, 39, 43, 57, DT 9, 11, 15, 22, 24	BKP-6112*	FO 12	BKP-6312*	NI 29
AT-2084B	AMC 10, 15, CHR 22, 24, 27, 35, 37, 39, 43, 57, DT 9, 11, 15, 22, 24	BKP-6113*	FO 12	BKP-6313*	TO 5
AT-6001	TOT 15, 17	BKP-6115*	FO 14	BKP-6314*	TO 18
AT-6002	TOT 16	BKP-6117*	FOT 10	BKP-6328*	TOT 8
AT-6003	GM 7, TO 8, 18, 20, 24, 28, 29	BKP-6119*	FOT 11	BK-6006*	GM 20
AT-6006	TO 9, 10	BKP-6120*	FOT 11	BK-6011*	GM 21
AT-6010	TOT 12	BKP-6125*	FO 22	BK-6016*	GM 29, GMT 12
AT-872	FO 15, 18-20, 52, 56, 58, 61, 62, FOT 7-9, 18	BKP-6134*	FO 31	BK-6017*	GM 31, GMT 13
AT-872B	FO 15, 18-20, 52, 56, 58, 61, 62, FOT 7-9, 18	BKP-6135*	FO 31	BK-6021*	GM 31
AT-937	AMC 10, CHM 5, 12, 16, CHR 35, 39, 40, 43	BKP-6138*	FO 32	BK-6029*	GM 38
AT-937B	AMC 10, CHM 5, 12, 16, CHR 35, 39, 40, 43	BKP-6150*	FOT 31	BK-6040*	GM 47
AT-992	GM 66, 71, 80, 85, 88, 100, 108, 110, 115, 119	BKP-6154*	FOT 33	BK-6050*	GM 58, GMT 28
AT-992B	GM 66, 71, 80, 85, 88, 100, 108, 110, 115, 119	BKP-6155*	FOT 33	BK-6051*	GMT 28
BKP-6015*	GM 29, GMT 12	BKP-6158*	FO 44	BK-6053*	GMT 28
BKP-6016*	GMT 12	BKP-6159*	FO 44	BK-6067*	GM 58
BKP-6017*	GM 31, GMT 13	BKP-6160*	FO 44	BK-6069*	GM 65
BKP-6018*	GM 31, GMT 13	BKP-6163*	FO 44	BK-6071*	GM 65
BKP-6021*	GM 31	BKP-6164*	FO 44	BK-6072*	GM 73, GMT 36
BKP-6022*	GM 31	BKP-6167*	FO 51, FOT 37	BK-6078*	GM 73
BKP-6050*	GM 58, GMT 28	BKP-6173*	FOT 47	BK-6079*	GM 74
BKP-6051*	GMT 28	BKP-6178*	FOT 46, IH 27	BK-6084*	GM 88, GMT 44
BKP-6053*	GMT 28	BKP-6187*	CHR 17, JEE 5	BK-6088*	GM 88
BKP-6067*	GM 58	BKP-6193*	JEE 13	BK-6089*	GM 88
BKP-6072*	GM 73, GMT 36	BKP-6197*	AMC 11, JEE 14	BK-6092*	GMT 49
BKP-6074*	GMT 36	BKP-6199*	CHR 14	BK-6093*	GMT 49
BKP-6078*	GM 73	BKP-6200*	CHR 14	BK-6098*	GMT 54
BKP-6079*	GM 74	BKP-6201*	CHR 14	BK-6101*	GM 1
BKP-6084*	GMT 44	BKP-6206*	CHR 15	BK-6103*	GM 7
BKP-6088*	GM 88	BKP-6208*	CHR 18, DT 6	BK-6104*	FO 7
BKP-6092*	GMT 49	BKP-6209*	CHR 18, DT 6	BK-6110*	FOT 5
BKP-6093*	GMT 49	BKP-6210*	CHR 18, DT 6	BK-6112*	FO 12
BKP-6281*	IST 6	BKP-6218*	CHR 19, DT 7	BK-6113*	FO 12
		BKP-6219*	CHR 19, DT 7	BK-6115*	FO 14
		BKP-6233*	DT 19	BK-6117*	FOT 10
		BKP-6237*	DT 24	BK-6119*	FOT 11
		BKP-6254*	CHR 23, DT 10	BK-6120*	FOT 11
		BKP-6256*	DT 10	BK-6125*	FO 22
		BKP-6279*	IST 5	BK-6134*	FO 31
		BKP-6281*	IST 6	BK-6135*	FO 31

\* New Item — Check For Availability

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BK-6138*	FO 32	BRP-3193	CHR 58, DT 31	CS-1032R	GM 29
BK-6139*	FOT 22	BRP-3194	CHM 11, 12, 14, 15, CHR 35, 43, 47, 51, DT 19, 24, 27	CS-1043M	MER 10, 12
BK-6150*	FOT 31			CS-1045M	MER 14, 15
BK-6154*	FOT 33	BRP-3197	GM 102, 120	CS-1047M	MER 15
BK-6155*	FOT 33	BRP-3200	GM 113, JEE 14	CS-1049M	MER 7, OMC 5
BK-6158*	FO 44	BRP-3205	GM 54, 74, 90, 91, GMT 46	CS-1051M	MER 7, OMC 5
BK-6159*	FO 44	BRP-3207	GM 29, 31, GMT 12, 13, IST 7, JEE 7	CS-1053M	CHM 12
BK-6160*	FO 44	BRP-3208	CHR 27, DT 15	CS-1057M	MER 9, 13
BK-6163*	FO 44	BRP-3209	FO 51, FOT 37	CS-1060M	MER 3
BK-6164*	FO 44	BRP-3211	AMC 4, GM 26, JEE 6	CS-1067R	MER 13
BK-6167*	FO 51, FOT 37	BRP-3212R	AMC 14, 18, 20, GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 28-30, 32, 36, 38, 40, 44, 45, 51, JEE 15, 18, 19, OMC 6, 9, 10, ST 6, VOM 1, 2	CS-1068M	MER 2, OMC 2
BK-6173*	FOT 47			CS-1084R	FO 44, 51, FOT 37
BK-6178*	FOT 46, IH 27	BRP-3212R 100	AMC 14, 18, 20, GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 28-30, 32, 36, 38, 40, 44, 45, 51, JEE 15, 18, 19, OMC 6, 9, 10, ST 6, VOM 1, 2	CS-1088R	GM 100, 108, 115, 119, GMT 50, 52, 54
BK-6181*	FO 1			CS-1092M	MER 6
BK-6187*	CHR 17, JEE 5			CS-1093M	MER 14, 15
BK-6193*	JEE 13			CS-1095R	GM 88
BK-6197*	AMC 11, JEE 14			CS-1103R	GM 64, 66, 73, 75, 80, 88, 104, GMT 32, 36, 38, 40, 44, 51
BK-6198*	AMC 18, JEE 18			CS-1106R	GM 64, 66, 73, 75, 80, 88, 104, GMT 32, 36, 38, 40, 44, 51
BK-6199*	CHR 14	BRP-3231	GM 15, 16, GMT 4	CS-1112R	GM 35, 47, 48, 53
BK-6200*	CHR 14	BRP-3233	FO 18, 20, 21, FOT 9, 10	CS-113R	GM 66
BK-6201*	CHR 14	BRP-3234	FO 31, FOT 17	CS-1145R	GM 88
BK-6206*	CHR 15	BRP-3235	JEE 14	CS-1158R	FO 44, 51
BK-6207*	CHR 15	BRP-3236	AMC 3, CHR 17, JEE 5	CS-1179R	GM 71
BK-6208*	CHR 18, DT 6	BRP-3240	GM 50	CS-118R	GM 71
BK-6209*	CHR 18, DT 6	BRP-3241	FO 44	CS-1230	FOT 20, 31
BK-6210*	CHR 18, DT 6	BRP-3244	GM 74, 90, GMT 46	CS-1231R	FO 44, 51, FOT 37
BK-6218*	CHR 19, DT 7	BRP-3253	GM 47, 48	CS-1463	TO 5
BK-6219*	CHR 19, DT 7	BRP-3254	GM 119, GMT 54	CS-1501	DT 19
BK-6228*	CHR 25, DT 12	BRP-3255	GM 119, GMT 54	CS-1503	CHR 25, DT 12
BK-6233*	DT 19	BRP-3256	GM 30	CS-1505	GM 38, 47
BK-6237*	DT 24	BRP-3259	CHR 43, DT 19, 24	CS-1506	GM 47
BK-6246*	DT 26	BRP-3260	FOT 31	CS-1507	GM 26
BK-6254*	CHR 23, DT 10	BRP-3261	GM 47	CS-1509	FO 10, 11, MZ 14, 15
BK-6275*	HO 21	BRP-3262	GM 58, 73, 88, GMT 28	CS-1510	FOT 22
BK-6276*	HO 21	BRP-3263	GM 26, GMT 8	CS-1511	FOT 22
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BK-6279*	IST 5	BRP-3274	GM 29, 31, 32	CS-1525	TOT 12
BK-6281*	IST 6	BRP-3275	JEE 13	CS-1526	TOT 12
BK-6290*	MZT 5	BRP-3277	CHR 43, DT 19, 24, 27	CS-1539	GM 29, 31, 32, GMT 12, IST 7
BK-6296*	CHR 12, MI 9	BRP-3279	CHR 25, DT 12	CS-1540	GM 50, 65
BK-6301*	DT 10, MI 13, MIT 5	BRP-3281	FO 22, FOT 11	CS-1543	NI 23, NIT 9
BK-6303*	NI 13	BRP-3284	FO 31	CS-1544	TO 28
BK-6312*	NI 29	BRP-3285	GM 47	CS-1545	TO 28
BK-6313*	TO 5	BRP-3288	FOT 47	CS-1551	TO 18
BK-6314*	TO 18	BRP-3332	FOT 22	CS-1556	CHR 43, DT 27
BK-6328*	TOT 8	BRP-3332 30	FOT 22	CS-1557	DT 27
BRP-3022	FO 41, 43, 45, FOT 28, 30	BRP-3332 60	FOT 22	CS-1565	DT 24
BRP-3028	GM 67, 76, 84, 85, 87, 95, 97, 105, 110, 116, 121, GMT 33, 39, 43	BTS-104	NI 29, 30, 32, NIT 11	CS-1576	GM 1
BRP-3036	CHM 5, CHR 24, 27, DT 11, 15	BTS-122	IS 10, IST 5	CS-1577	HO 9
BRP-3093	AMC 14, 18-20, GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 28-30, 32, 36, 38, 40, 44, 45, 51, IH 26, JEE 15, 18, 19, MER 8, 10, 12, OMC 6, 9, 10, ST 6, VOM 1, 2	BTS-124	DT 5, MI 11, MIT 3	CS-1578	HO 21
BRP-3102	GM 85, 110, GMT 43	BTS-128	CHR 2, MI 1	CS-1581R*	FO 44, 51, FOT 37
BRP-3103	GM 100, 108, 115, 119, GMT 54	BTS-134	FO 10, 11, MZ 14, 15, MZT 5	CS-1582R*	GM 88
BRP-3104	GM 100, 108, 115, 119, GMT 54	BTS-139	CHR 23, DT 10, MI 13, MIT 5	CS-165R	GM 100, 108, 115, 119
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BRP-3160	FO 63, 65, FOT 47	BTS-145	HO 9, 10	CS-176R	GM 91, 120
BRP-3164	FO 63, 65, GM 30, 34, 35, 47, 48, 53, 79, 97, 105, 111, GMT 20	BTS-147	HO 12	CS-187	GM 67, 79, 84, 95, 97, GMT 33, 39, 42
BRP-3165	FO 27, 42, 44, FOT 29, 33	BTS-153	CHR 14-16, 18, 19, DT 6, 7	CS-198	CHR 37, 39, 43
BRP-3167	FO 37, 40, 44, FOT 24, 33, OMC 8	BTS-160	HO 15, 17	CS-210	FO 41, 43, 45, FOT 28, 30
BRP-3172	FO 47, 52, 53, 56, 59, 61, 62, FOT 35, 38, 39, 41, 44	BTS-161	HO 4, 7, 8	CS-251	GM 49, GMT 21
BRP-3172B	FO 47, 52, 53, 56, 59, 61, 62, FOT 35, 38, 39, 41, 44	BTS-167	CHR 12, 13, MI 9, 10	CS-256	GM 82, 93, 98
BRP-3174	GM 54, 81, 90, 91, 109, GMT 46	BTS-17	AMC 2, AUD 4-7, CHR 8, VW 3, 9, 11-14, VWT 6, 7, 9	CS-261	FO 15, 19, FOT 7, 8
BRP-3176	FO 19, 24, FOT 12	BTS-172*	SB 10	CS-273	GM 63, 66, GMT 29, 32
BRP-3179	GM 122	BTS-185	FO 1, MZ 5, 8	CS-274	GM 66, 73, 75, 80, 88, 104, GMT 32, 38, 40, 44, 45, 51, MER 8, 11, 12, OMC 6, 9, 10, ST 6
BRP-3180	AMC 11, GM 26, 27, 33, 41, 45, 51, 86, GMT 9, 14, 19, 26, JEE 17, OMC 1, 2, 4, ST 2	BTS-187*	HO 21	CS-293	GMT 21, 27
BRP-3181	GM 100, 108, 115, GMT 50, 52, 54	BTS-199	TO 18-20	CS-301	JEE 2
BRP-3182	GM 81, 100, 108, 115, GMT 50, 52, 54	BTS-212	GM 10, GMT 1	CS-323	GM 49
BRP-3183	FOT 20, 31	BTS-233	TO 4, 5	CS-327	CHR 49, 52, 53, 55-58, DT 29-31
BRP-3184	FO 49	BTS-36	GM 7, TO 8	CS-338	GM 42, 49, GMT 16, 21
BRP-3186	FO 50, 57, FOT 36, 42	BTS-67	FO 3, 4, 7, TO 4, 6-8	CS-364	GM 39, 40, 68
BRP-3188	GMT 34	BTS-70	GM 6, 7, TO 4, 6-8	CS-380	CHR 22, 24, 27, DT 9, 11, 15
BRP-3191	CHM 17, 18, 21, CHR 53, 55, DT 29-31	BTS-71	CHR 14, 15, DT 3	CS-415	IH 17, 19, 21, 22, 24
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		CS-1014R	GM 64, 66, 73, 75, 80, 88, 104, GMT 32, 36, 38, 40, 44, 51	CS-448	FO 15, 19, 24, FOT 12
		CS-1015R	GM 100, 108, 115, 119, GMT 50, 52, 54	CS-551	GMT 34
		CS-1016R	GM 35, 47, 48, 53	CS-554	GM 98, 117
		CS-1026R	AMC 13, 14, 16, 18-20	CS-559	FO 29, FOT 15
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CS-564	GM 92, 106, 107, 114	CS-814	FOT 10	E-236K	AMC 10, FO 27, GM 39, 40, 54, 64, GMT 30, ROV 2
CS-586	GM 103, 118, 122	CS-817	CHR 11, DT 2, MI 7, 8, MIT 1	E-236X	AMC 10, FO 27, GM 39, 40, 54, 64, GMT 30, ROV 2
CS-614	MZT 4	CS-820	CHR 23, DT 10	E-237KC	FO 26, FOT 13, GM 49, GMT 21
CS-620	IS 9, 10, IST 5, 6	CS-822	CHR 23, DT 10	E-237X	FO 26, FOT 13, GM 49, GMT 21
CS-633	GM 33, 41, 45, 51, GMT 14, 19, 26, OMC 4, ST 2	CS-828+	AMC 14, JEE 15	E-239K	CHM 10, 11, CHR 34-36, 38, 42, DT 22, 23, GM 61
CS-636	GM 100, 115, GMT 50	CS-829	DT 19	E-239X	CHM 10, 11, CHR 34-36, 38, 42, DT 22, 23, GM 61
CS-641	GM 87, 97, 105, 111, 116, 121	CS-831	GM 21	E-240K	AMC 12-14, CHR 37, FO 43, FOT 30, GM 63, 67, 68, 72, 83, GMT 29, 33, JEE 15, OMC 7
CS-642	FO 56, 59, 62, FOT 44	CS-832	GM 21	E-240X	AMC 12-14, CHR 37, FO 43, FOT 30, GM 63, 67, 68, 72, 83, GMT 29, 33, JEE 15, OMC 7
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CS-644	CHM 14, CHR 47, 51, DT 27	CS-836	GM 47	E-243X	CHR 52, GM 85, 92, 99, 104, 108, 113, 120, GMT 43, 51, 52
CS-645	CHR 35, 43, DT 24, 27	CS-838	GM 18	E-245K	GM 66, 75, 78, 87, GMT 32, 38, MER 8, OMC 6, 9, ST 6
CS-646	AMC 13, 14, 16, 18-20, IH 26, JEE 15, 18, 19	CS-840	FO 1, 2, MZ 5	E-245X	GM 66, 75, 78, 87, GMT 32, 38, MER 8, OMC 6, 9, ST 6
CS-647	GM 86	CS-841	FO 1, 2, MZ 5	E-247KC 30	FO 34, 38, FOT 19, 25, GM 60
CS-648	FO 63, 65, FOT 45, 47	CS-842	DT 19	E-247X	FO 34, 38, FOT 19, 25, GM 60
CS-650	FO 49	CS-843	NI 29, 32, NIT 11	E-248K	FO 47, 52, 54, FOT 35, 38, GM 96
CS-651	GM 74, 81, 91, 101, 102, 120	CS-844	NI 29, 32, NIT 11	E-248X	FO 47, 52, 54, FOT 35, 38, GM 96
CS-652	AMC 8, 9, 11, IH 9, 14, JEE 12, 14	CS-847	HO 15, 17	E-250X	GM 33, GMT 14, ST 2
CS-656	GM 94, 112, 123, 124	CS-850	GM 74	E-251K	AMC 15, 17, CHM 15, CHR 51, 54, DT 27, FO 42, 44, 49-51, 57, FOT 29, 33, 36, 37, 42, GM 69, 71, 77, 80, 88, 93, 98, 101, GMT 40, 44, 45, JEE 16, MER 9, 11-13, OMC 8, 10, 11, VOM 2
CS-657	GM 36, 43, JEE 8	CS-857	GM 10	E-251KC	AMC 15, 17, CHM 15, CHR 51, 54, DT 27, FO 42, 44, 49-51, 57, FOT 29, 33, 36, 37, 42, GM 69, 71, 77, 80, 88, 93, 98, 101, GMT 40, 44, JEE 16, MER 9, 11-13, OMC 8, 10, 11, VOM 2
CS-658	FO 24, 36	CS-860	FO 31	E-251X	AMC 15, 17, CHM 15, CHR 51, 54, DT 27, FO 42, 44, 49-51, 57, FOT 29, 33, 36, 37, 42, GM 69, 71, 77, 80, 88, 93, 98, 101, GMT 40, 44, JEE 16, MER 9, 11-13, OMC 8, 10, 11, VOM 2
CS-660	GM 119, GMT 54	CS-861	FO 32	E-252X	CHR 49, GM 95, 97
CS-661	CHR 53, 55, 58	CS-863	FO 7	E-253K 30	CHR 49, GM 95, 97
CS-665	CHR 51, DT 27	CS-864	CHR 23, DT 10, MIT 5	E-253X	CHR 49, GM 95, 97
CS-666	FO 12, 13, FOT 5	CS-865	CHR 23, DT 10, MIT 5	E-257X	GM 117
CS-667	FO 49, 50, 57, FOT 36, 42	CS-875	TOT 4, 7	E-260K	FO 56, FOT 39
CS-668	FO 37, 44, FOT 24, 33	CS-906	HO 8	E-261K	FO 62, FOT 44
CS-673	GM 64, GMT 30, 36	CS-922	CHR 14, 15, 18, 19, DT 3, 6, 7	E-261X	FO 62, FOT 44
CS-674	FO 51, FOT 37, MER 9, OMC 8, 11	CTS-1000	GM 44, 57, 64, 73, GMT 18, 30, 36, 44	E-270K	IH 19-22
CS-676	GM 86	CTS-1001	GM 88, GMT 44	E-270X	IH 19-22
CS-677	GM 51, GMT 26	CTS-1002	GM 66, GMT 32, 44	E-273K	CHM 16, IH 24
CS-690	GM 62, 69, 87, 105	CTS-1003	GMT 44, 51	E-286K	CHM 14, CHR 47, GM 103
CS-696	AMC 4, GM 26, JEE 6	CTS-1005	GM 54, 74, 81, 91, 109, 120	E-286X	CHM 14, CHR 47, GM 103
CS-698	GM 54	CTS-1006	GM 73, 88	E-287X	CHR 56, GM 106, 107, 118
CS-702	GM 30, 35, 47, 48, 53, GMT 20	CTS-1100R	GMT 32, 36, 38, 40, 44, 51	E-288K	FO 46, GM 74, 86, JEE 17
CS-707	GM 74, 86, 91, 109	CTS-1110R	GM 119, GMT 50, 52, 54	E-288KC 20	FO 46, GM 74, 86, JEE 17
CS-708	GM 26, 27, MER 1	CTS-2000	FO 37, 44, 51, FOT 24, 33, 37	E-288X	FO 46, GM 74, 86, JEE 17
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CS-711	GM 57, 64, 73, GMT 30, 36	CTS-2002	FO 44, 51, FOT 33, 37	E-289X	GM 110, 114, 122
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CS-713	AMC 11, JEE 14	CTS-3002	CHR 43, 47, 51, DT 24	E-290X	GM 123, 124
CS-715	GM 29, GMT 12, 13, JEE 7	E-103X	GM 42, GMT 16	E-296K	FO 63, 65, FOT 45, 47
CS-719	TO 21, 23, TOT 6, 8, 9	E-104KC	JEE 2, 3	E-296X	FO 63, 65, FOT 45, 47
CS-720	GMT 2, 3, IS 6, 8, IST 1, 2, OP 3	E-104X	JEE 2, 3	E-297K	GM 91
CS-724	FOT 1, 2, MZ 10, MZT 1-3	E-107X	CHM 7-9, CHR 29, 31, 33, DT 18, 20	E-297X	GM 91
CS-733	FO 31, FOT 17	E-108KC	CHM 4, 6, CHR 26, 28, DT 13, 17	E-298K 30	GM 102
CS-745	FOT 9	E-108X	CHM 4, 6, CHR 26, 28, DT 13, 17	E-299K	GM 105, 116
CS-748	FOT 9	E-135X	GM 49, GMT 21, IH 8, 11	E-299X	GM 105, 116
CS-748	FO 31	E-156X	FO 29, FOT 15	E-300K	GM 121
CS-751	GM 50	E-175X	FO 40, 45	E-300X	GM 121
CS-755	NI 19, 22, NIT 5, 7, 8	E-178K	CHM 12, CHR 39, 43, DT 24	E-301K	AMC 16, 18, JEE 18
CS-756	GM 58, GMT 28	E-178X	CHM 12, CHR 39, 43, DT 24	E-301X	AMC 16, 18, JEE 18
CS-758	GM 74	E-180K	FO 53, 56, 59, FOT 39, 41	E-302K 30	AMC 19, 20, IH 26, JEE 19
CS-759	FO 44	E-180X	FO 53, 56, 59, FOT 39, 41	E-307KC	VW 6, VWT 5
CS-760	FO 44	E-183X	FO 55, 64	E-307X	VW 6, VWT 5
CS-761	FO 44	E-196K	CHM 5, CHR 22, 24, 27, DT 9, 11, 15	E-318K	CHM 18, CHR 55, DT 30
CS-764	FO 51, FOT 37, MER 9, 13	E-196X	CHM 5, CHR 22, 24, 27, DT 9, 11, 15	E-318X	CHM 18, CHR 55, DT 30
CS-766	GM 73, 88	E-197K	FO 15, 19, FOT 7, 8, GM 35, 37, GMT 15	E-350KC	FOT 1, MZ 4, MZT 1, 2
CS-767	FO 12, 13, FOT 3, 5	E-197X	FO 15, 19, FOT 7, 8, GM 35, 37, GMT 15		
CS-769	CHR 20, DT 8	E-217K	GMT 34		
CS-770	GMT 49	E-217KC	GMT 34		
CS-771	FOT 43, 46, IH 27	E-217X	GMT 34		
CS-774	GM 108, 119, GMT 52, 54	E-219K	FO 24, 36, FOT 12, 23		
CS-775	CHR 15	E-219X	FO 24, 36, FOT 12, 23		
CS-778	GM 12	E-222K	AMC 8, 9, 11, GM 41, 43, IH 9, 14, JEE 8, 12, 14, OMC 3		
CS-779	AMC 3, CHR 17, JEE 5	E-222X	AMC 8, 9, 11, GM 41, 43, IH 9, 14, JEE 8, 12, 14, OMC 3		
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CS-782	GM 26, GMT 8	E-229K	FO 35, FOT 20, 31, GM 58, GMT 28		
CS-783	GM 58, GMT 28	E-229X	FO 35, FOT 20, 31, GMT 28		
CS-785	CHR 14, 15, 18, 19, DT 3, 6, 7	E-232K	GM 100, 111, GMT 50		
CS-786	FO 31	E-232X	GM 100, 111, GMT 50		
CS-787	FO 22, FOT 11	E-233K	CHM 17, 20, CHR 53, 57, DT 29, GM 115, 119, GMT 54, MER 14, 15		
CS-788	FO 14, 17	E-233X	CHM 17, 20, CHR 53, 57, DT 29, GM 115, 119, GMT 54, MER 14, 15		
CS-790	FO 7	E-234K	GM 45, 46, 51, 52, GMT 19, 26, JEE 13, MER 5, 6, OMC 4		
CS-791	FO 7	E-234X	GM 45, 46, 51, 52, GMT 19, 26, JEE 13, MER 5, 6, OMC 4		
CS-792	GM 48				
CS-793	GM 73				
CS-803	TOT 15-17				
CS-808	GM 73, 88				
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CS-810	CHR 21, DT 8, MI 12, MIT 4, MZT 7				
CS-811	GM 16, 20				
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E-351KC	FO 20, FOT 9	E-438X	HO 5-8	E-519X	IS 6, IST 1, TO 17
E-351X	FO 20, FOT 9	E-439KC	CHR 20, 21, DT 8, MI 12, MIT 4, MZT 7	E-522KC	CHR 12, 13, MI 9, 10
E-352K	FO 12, FOT 5			E-523KC	TO 18, TOT 4
E-352X	FO 12, FOT 5	E-439X	CHR 20, DT 8, MIT 4, MZT 7	E-523X	TO 18, TOT 4
E-356K	GM 73, GMT 36, MER 10, VOM 1	E-441K	FO 13	E-524KC	DT 5, MI 11, MIT 3
E-356KC	GM 73, GMT 36, MER 10, SB 1, VOM 1	E-442KC	FO 12, FOT 5	E-524X	DT 5, MI 11, MIT 3
E-356X	GM 73, GMT 36, MER 10, SB 1, VOM 1	E-442X	FO 12, FOT 5	E-525KC	NIT 11
E-357KC	CHR 10, DT 1, GMT 2, IS 6, IST 1, OP 3	E-444K	GM 50	E-526KC	HO 17
E-357X	CHR 10, DT 1, GMT 2, IS 6, IST 1, OP 3	E-444X	GM 50	E-527KC	HO 4, SZ 4
E-358K	GM 11	E-446K	FO 22, FOT 11	E-528KC	CHR 23, DT 10, MI 13, MIT 5
E-358X	GM 11	E-446KC	FO 22, FOT 11	E-528X	CHR 23, DT 10, MI 13, MIT 5
E-359KC	GM 3, SB 3	E-446X	FO 22, FOT 11	E-529K	CHR 25, DT 12
E-359X	GM 3, SB 3	E-447K	FOT 43	E-530K	GM 88
E-360KC	NI 15, 18, NIT 3, 4, SB 4, TO 9	E-450K	AMC 3, CHR 17, GM 27, GMT 9, JEE 5, MER 1, OMC 1	E-531K	GM 20
E-360X	NI 15, 18, NIT 3, 4, SB 4, TO 9	E-450X	AMC 3, CHR 17, GM 27, GMT 9, JEE 5, MER 1, OMC 1	E-531X	GM 20
E-364X	TO 15, 21, TOT 3, 6	E-452KC	CHR 11, DT 2, MI 8, MIT 1	E-532K	GM 47
E-365X	NI 6	E-452X	CHR 11, DT 2, MI 8, MIT 1	E-532X	GM 47
E-366KC	NI 10, NIT 2	E-453K	CHR 15, 16, 19, DT 7	E-533K	GM 38
E-366X	NI 10, NIT 2	E-454K	CHR 14, 18, DT 3, 6	E-534K	GM 65
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E-369X	GM 30, 47, GMT 20	E-455KC	CHR 11, DT 2, MI 8, MIT 1, NI 19, NIT 5	E-535K	GM 21
E-370KC .50MM	CHR 1, HO 5, 8, 13	E-455X	CHR 11, DT 2, MI 8, MIT 1, NI 19, NIT 5	E-535X	GM 21
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E-381X	AMC 4, GM 26, JEE 6, MER 2, OMC 2	E-460X	GMT 4	E-541KC	CHR 9, MI 5-7
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E-409X	FOT 2, MZ 10, MZT 3	E-476X	FOT 3	E-556KC	HO 21
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E-411X	GM 29, GMT 12, JEE 7	E-478X	GM 29	E-560X	NIT 8
E-412X	GM 15	E-481K	FO 21, FOT 10	E-561KC	NI 13
E-413X	FO 37, FOT 24	E-481X	FO 21, FOT 10	E-561X	NI 13
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E-414X	GM 44, GMT 18, MER 4	E-483K .75MM	GMT 3	E-570X	GM 117
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E-436X	TO 9, 10	E-516KC	CHR 2, MI 1	E-617X	IST 6
E-437X	TO 15, 21, TOT 3, 6	E-516X	CHR 2, MI 1	E-618KC	MZ 16, 17, MZT 9
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E-742KC	CHR 4, MI 2	HT-6011	NI 20	H471CP 30	GM 53
E-753KC	SZT 1	HT-6035	SB 7, 8, 12	H491P	FOT 3
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E-776KC	SZ 4, SZT 2	HT-817	GM 15, 22, 24, 27, 28, 33, 37, 41, 44, 45, 51, 57, 58, 63, 64, 66, 73, 75, 80, 85, 88, 100, 104, 108, 110, 115, 119, GMT 7, 9, 11, 14, 15, 18, 19, 26, 28-30, 32, 34, 36, 38, 40, 43-45, 50-52, 54, MER 1, 2, 4-8, 10-12, 14, 15, OMC 1, 2, 4-6, 9, 10, ST 2, 6, VOM 1, 2	H519P	FOT 31
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HT-2011R	AMC 13, 14, 16, 18-20, CHM 17, 18, 21, CHR 57, 58	HT-951R	GM 105	H562CP	GM 31, GMT 13
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KC-863	FO 7	KT3-499SA6	GM 88	MKF-6151A	GM 88
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MKP-1114B+	FO 31	MKP-130D	GM 88, GMT 44	MKP-243A	CHR 43, DT 24
MKP-1114C	FO 31	MKP-130F	GMT 44	MKP-244C	DT 24
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MKP-1123A	FOT 47	MKP-137D	FO 65	MKP-265C	FOT 31
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MKP-114G	GM 51, GMT 26	MKP-148D	GM 73	MKP-386A	FO 31
MKP-114H	GMT 26	MKP-153A	FO 42	MKP-388A	FO 44
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MKP-1156A	GMT 44	MKP-158C	GMT 44	MKP-6007A	GM 26, GMT 8
MKP-1156C	GMT 44	MKP-160A	GMT 54	MKP-6008A	GM 26
MKP-1156D	GMT 44	MKP-161A	GM 108, GMT 52	MKP-6009A	GM 27
MKP-116A	GMT 26	MKP-162A	GM 80	MKP-601C	FO 56
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MKP-1182A	TOT 8	MKP-162J	GMT 40	MKP-601N	FOT 39
MKP-1183D	GM 31	MKP-167E	CHR 53, DT 29	MKP-601P	FOT 39
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MKP-1184B	GMT 13	MKP-183C	CHR 51, DT 27	MKP-6011B	GM 29, GMT 12
MKP-1184C	GM 31	MKP-186A	GM 100	MKP-6011C	GMT 12
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MKP-119G	GM 66	MKP-2000*	GM 31	MKP-6024D	GM 73
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MKP-124M	FO 57	MKP-218A	CHR 43, DT 24	MKP-606C	GMT 34
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MKP-124P	FOT 42	MKP-218D	CHR 43	MKP-606E+	GMT 34
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MKP-125C	FO 51	MKP-218J	CHR 43	MKP-607B+	GMT 34
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MKP-6087A	FOT 31	MKP-6205A	CHR 18, DT 6	MKP-662F	GM 80
MKP-6091A	FOT 46, IH 27	MKP-6205B	CHR 18, DT 6	MKP-662J	GMT 40
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MKP-6093A	CHR 14	MKP-6206A	CHR 25, DT 12	MKP-667F	CHR 53
MKP-6093C	CHR 18, DT 6	MKP-621D	GM 87	MKP-667G	CHR 53
MKP-6094A	CHR 19, DT 7	MKP-621E	GM 87	MKP-683C	CHR 51, DT 27
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MKP-6094D	CHR 15	MKP-6215A	FOT 33	MKP-686C	GM 100, GMT 50
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MKP-6098A	DT 19	MKP-622C	DT 27	MKP-692A	GM 44, GMT 18
MKP-6098C	DT 19	MKP-624C	FO 49	MKP-695B	GM 109
MKP-6099C	DT 19	MKP-624E	FO 50	MKP-699D	GMT 12, JEE 7
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MKP-6106A	FO 14	MKP-624M	FO 57	MKP-7001*	GM 31
MKP-6107A	FO 14	MKP-624N	FO 57	MKP-7002*	GM 31
MKP-6110A	FO 22	MKP-624P	FOT 42	MKP-7003*	GM 31
MKP-6111A	FO 31	MKP-625A	FO 51	MKP-7012*	GMT 28
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MKP-6112B+	FO 31	MKP-625D	FO 51	MKP-7028*	GMT 54
MKP-6112C	FO 31	MKP-6250A	FOT 33	MKP-7033*	FOT 11
MKP-6113B	FO 31	MKP-6251A	FOT 33	MKP-7044*	FO 44
MKP-6113C	FO 31	MKP-6251C	FOT 33	MKP-7050*	CHR 17, JEE 5
MKP-6114B+	FO 31	MKP-6253A	FOT 33	MKP-7053*	JEE 13
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MKP-612D	FOT 20	MKP-6269C	MER 2	MKP-7062	DT 24
MKP-612E	FOT 31	MKP-627A	FO 51, FOT 37	MKP-713A	CHR 47
MKP-6120A	FOT 11	MKP-627C	FO 51, FOT 37	MKP-715A	JEE 18
MKP-6121A	FOT 33	MKP-627D	FO 51	MKP-716A	JEE 14
MKP-6121C	FOT 33	MKP-6270A	MER 6	MKP-717A	CHR 43
MKP-6123A	FOT 47	MKP-6270C	MER 6	MKP-717C	CHR 43
MKP-6124A	FOT 47	MKP-6271A	MER 8, OMC 6	MKP-718A	CHR 43, DT 24
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MKP-613E	GM 119, GMT 54	MKP-630C	GM 88, GMT 44	MKP-718D	CHR 43
MKP-6131A	GM 20	MKP-630D	GM 88, GMT 44	MKP-718H	CHR 43, DT 24
MKP-6132C	GM 21	MKP-630F	GMT 44	MKP-718J	CHR 43
MKP-6134A	GM 26	MKP-632E	CHR 58	MKP-718K	CHR 43
MKP-6135A	GM 26	MKP-632G	CHR 58	MKP-718L	CHR 43
MKP-6136A	GM 26	MKP-6329A	CHR 23, DT 10	MKP-727K	JEE 7
MKP-614A	GM 51, GMT 26	MKP-633A	GM 74	MKP-728C	JEE 7
MKP-614C	GM 51, GMT 26	MKP-6339B	FO 32	MKP-728H	JEE 7
MKP-614D	GM 45, GMT 19	MKP-634A	GM 86	MKP-728L	GM 29, GMT 12
MKP-614E	GMT 26	MKP-634C	GM 86	MKP-728M	GM 29
MKP-614F	GMT 26	MKP-6361	CHR 14	MKP-739A	GMT 26
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MKP-615E	GMT 26	MKP-6374A	GM 26	MKP-757A	FO 31, FOT 17
MKP-6151A	GM 88	MKP-6377	DT 24	MKP-758A	FO 31
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MKP-6155A	GMT 8	MKP-6380	GM 58	MKP-761C	FO 51, FOT 37
MKP-6156A	GMT 44	MKP-639C	GM 91	MKP-761D	FO 51, FOT 37
MKP-6156C	GMT 44	MKP-640E	GM 105	MKP-763A	FOT 5
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MKP-618E	GMT 51	MKP-653D	FO 42, 44, FOT 33	MKP-859A	CHR 17, JEE 5
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MKP-6183D	GM 31	MKP-653G	FO 44	MKP-860C	AMC 11, JEE 14
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MKP-619A	GM 66, GMT 32	MKP-658C	GMT 44	MKP-879A	FO 13
MKP-619C	GM 66, GMT 32	MKP-660A	GMT 54	MKP-879C	FO 13
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MK-354A	TO 23, TOT 8	MK-6099C	DT 19	MK-621D	GM 87
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MK-360A	JEE 14	MK-6103C	FO 7	MK-6215A	FOT 33
MK-360C	AMC 11, JEE 14	MK-6103E	FO 7	MK-6219C	GM 26
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MK-6011C	GMT 12	MK-6136A	GM 26	MK-632G	CHR 58
MK-6012E	GM 29	MK-6138A	GM 30	MK-632H	CHR 58
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MK-6019A	GM 58	MK-614D	GM 45, GMT 19, 26	MK-6339B	FO 32
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MK-6024D	GM 73, GMT 36	MK-6141E	GM 47	MK-637F	FOT 47
MK-6026A	GM 73	MK-6142A	GM 50	MK-6373A	GM 26
MK-6026C	GM 73	MK-6144A	GM 50	MK-6374A	GM 26
MK-6026E	GM 73, GMT 36	MK-6148A	GM 74	MK-6377	DT 24
MK-6027A	GM 73	MK-6148D	GM 74	MK-6379*	GMT 13
MK-6027C	GM 73	MK-615A	GM 51, GMT 26	MK-638A	GM 91
MK-603A	CHR 27, DT 15	MK-615E	GMT 26	MK-639C	GM 91
MK-603C	CHR 27, DT 15	MK-6151A	GM 88	MK-640E	GM 105
MK-6033B	GMT 12	MK-6152A	GM 88	MK-6405A	GM 47
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MK-7021*	GMT 36	MR-1822	GM 58, 66, 71, 73, 75, 80, 88, 104, GMT 28, 30, 32, 36, 38, 40, 44, 45, 51	MV-1707	CHM 16-18, 21, CHR 52, 53, 55-58, DT 29-31
MK-7028*	GMT 54	MR-1823	FO 42, 44, 51, FOT 20, 29, 31, 33, 37	MV-1707C	CHM 16-18, 21, CHR 52, 53, 55-58, DT 29-31
MK-7032*	FO 14	MR-1829	GM 30, 35, 47, 48, 53, 86, 87, 122, GMT 20, JEE 17	MV-1711	GM 66, GMT 32
MK-7033*	FOT 11	MR-1832	AMC 4, GM 26, GMT 8, JEE 6	MV-1765	AMC 6, FO 42
MK-7044*	FO 44	MR-1837	GM 15, 16, 29, 31	MV-1769	GM 100, 108, 115, 119, GMT 50, 52, 54, MER 15
MK-7050*	CHR 17, JEE 5	MR-1838	GM 15, 16, 29, 31, 32, GMT 4, 12, 13	MV-1769C	GM 100, 108, 115, 119, GMT 50, 52, 54, MER 15
MK-7053*	JEE 13	MR-1839	AMC 3, 11, 14, 18, CHR 17, JEE 5, 12-15, 18	MV-1771	AMC 14, 19, CHM 5, 8, 10-14, CHR 22, 24, 27, 34, 35, 37, 39, 42-45, 47-51, 53, 54, DT 9, 11, 15, 22, 24, 25, 27, JEE 15
MK-7057*	CHR 14, 18, DT 6	MR-1840	AMC 3, 11, 14, 18, 20, CHR 17, JEE 5, 12-15, 18, 19	MV-1771C	AMC 14, 19, CHM 5, 8, 10-14, CHR 22, 24, 27, 34, 35, 37, 39, 42-45, 47-51, 53, 54, DT 9, 11, 15, 22, 24, 25, 27, JEE 15
MK-7058*	CHR 14, 18, DT 6	MR-1841	AMC 4, GM 16, 20, 26, GMT 8, JEE 6	MV-1775	FO 52, 55, 56, 59, 61, 62, 64, 66, FOT 38, 39, 41, 44
MK-7062	DT 24	MR-1842	FO 31, 32, FOT 17	MV-1775C	FO 52, 55, 56, 59, 61, 62, 64, 66, FOT 38, 39, 41, 44
MK-713A	CHR 47	MR-1847	FO 37, 44, 51, FOT 24, 31, 33, 37	MV-1796	AMC 10, FO 15, 19, 24, 27, 36, 40, 42, 44, 49, 51, 63, 65, FOT 7, 8, 12, 23, 24, 29, 33, 37, 43, 46, 47, GM 99, OMC 8
MK-715A	JEE 18	MR-1865RS	GM 88, GMT 44	MV-1796A*	FO 15, 19, 24, 36, FOT 7, 8, 12, 23
MK-716A	JEE 14	MR-1874	GM 30, 47	MV-1796C	AMC 10, FO 27, 40, 42, 44, 49, 51, 63, 65, FOT 24, 29, 33, 37, 43, 46, 47, GM 99, OMC 8
MK-717A	CHR 43	MR-1876	GM 38, 47	MV-1817	FO 49, 57, FOT 42
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MK-718D	CHR 43	MR-1885	GM 30, 47		
MK-718E	CHR 43	MR-1886	GM 38, 47		
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MK-718H	CHR 43, DT 24	MR-1891	GM 88, GMT 44		
MK-724A	GM 30	MR-1892	GM 88, GMT 44		
MK-724F	GM 30	MR-1893	GM 119, GMT 54		
MK-727H	GM 29, GMT 12	MR-1894	GM 119, GMT 54		
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MK-728L	GM 29, GMT 12	MR-1897	FO 44, FOT 33		
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MK-746C	CHR 20	MR-1930	GM 88, GMT 44		
MK-747C	CHR 20, DT 8	MR-1933*	CHR 24, 27, DT 11, 15		
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MK-753A	FO 12	MR-1936*	AMC 4, GM 26, GMT 8, JEE 6		
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MK-760A	FO 44, FOT 33				
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MK-761C	FO 51, FOT 37				
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MK-854A	TO 23, TOT 8				
MK-858A	AMC 3, JEE 5				
MK-859A	CHR 17, JEE 5				
MK-860A	JEE 14				
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MK-868C	CHR 15				
MK-869C	CHR 14, DT 3				
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MV-1819C	FO 31, 44, FOT 17, 24, 33, 36, GM 54, 59, 74, 90, 91, 102, 109, 120, GMT 46	RP-3099	GM 98, 117	RP-3212R 150	AMC 14, 18, 20, GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 28-30, 32, 36, 38, 40, 44, 45, 51, JEE 15, 18, 19, OMC 6, 9, 10, ST 6, VOM 1, 2
MV-1828	FO 6, 8, 20, FOT 3, 9	RP-3100	GM 85, 110, GMT 43	RP-3212R 200	AMC 14, 18, 20, GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 28-30, 32, 36, 38, 40, 44, 45, 51, JEE 15, 18, 19, OMC 6, 9, 10, ST 6, VOM 1, 2
MV-1828C	FO 6, 8, 20, FOT 3, 9	RP-3102	GM 100, 108, 115, 119, GMT 54	RP-3213R	FO 63, 65, GM 30, 34, 35, 47, 48, 53, 79, 97, 105, 111, GMT 20
MV-1888	FO 51, GM 23, 26, 29, 30, 38, 44, 47, 48, 53, 62, 73, 88, GMT 12, 28, 36, 44, IST 7, JEE 7	RP-3103	GM 100, 108, 115, 119, GMT 54	RP-3214R	GM 26, 27, 33, 45, 51, 86, GMT 9, 14, 19, 26, JEE 17, MER 1, 2, 5, 6, OMC 1, 2, 4, ST 2
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RC-140	FO 37, 44, 50, 51, 57, FOT 33, 37, GM 54, 59, 90, 91, 109	RP-3172A	FO 47, 52, 53, 56, 59, 61, 62, FOT 35, 38, 39, 41, 44	RP-3241	FO 44
RC-141	FOT 41	RP-3172B	FO 47, 52, 53, 56, 59, 61, 62, FOT 35, 38, 39, 41, 44	RP-3244	GM 74, 90, GMT 46
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RP-3019	GM 42, GMT 16	RP-3180	AMC 11, GM 26, 27, 33, 41, 45, 51, 86, GMT 9, 14, 19, 26, JEE 17, OMC 1, 2, 4, ST 2	RP-3262	GM 58, 73, 88, GMT 28
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RS-602	GM 49, GMT 21, 27	R-1092B	FOT 22	R-862B	CHM 11, 12, 14, 15, CHR 35, 43, 47, 51, DT 19, 22, 24, 27, OMC 9
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RS-621	FO 47, 52, 53, 56, 59, 61, 62, FOT 38, 39, 41, 44	R-1122	CHR 23, DT 10, MI 13, MIT 5	R-865RB	GM 88
RS-626	CHM 12, 14, 15, CHR 35, 43, 47, 51, DT 22, 24, 27	R-1123	CHR 2	R-866R	GM 115, 119
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RS-629	TO 21, 23, TOT 6, 8, 9	R-1129	MZT 5	R-870W	GM 30, 35, 47, 48, 53, 86, 122, GMT 20
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RS-639	CHR 1, 2, MI 1	R-1132	MZ 11	R-873B	FO 12, 13, FOT 3, 5
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RS-649	NI 29, 30, 32, NIT 11	R-810	FO 15, 19, 24, FOT 7, 8	R-875A	AMC 14, 18, 20, IH 26, JEE 15, 18, 19
RS-653	NI 19, 22, NIT 5, 7, 8	R-814	FO 47, 52, 53, 56, 59, 61, 62, 64, FOT 38, 39, 41, 44	R-875B	AMC 14, 18, 20, IH 26, JEE 15, 18, 19
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RS-659	CHR 11, DT 2, 5, MI 7, 8, 11, MIT 1, 3	R-826A	GM 37, 44, 57, 58, 63, 64, 66, 71, 73, 75, 80, 88, 104, GMT 15, 18, 26, 28-30, 32, 36, 38, 40, 44, 45, 51, MER 8, 10, 12, OMC 6, 10, ST 6, VOM 1, 2	R-881	GM 15, 16, 29, 31, 32, GMT 4, 12, 13, IST 7, JEE 7
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RS-664	TOT 16, 17	R-827	GM 85, 110, GMT 43	R-881B	GM 15, 16, 29, 31, 32, GMT 4, 12, 13, IST 7, JEE 7
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RS-676	GMT 49	R-829	CHM 17, 18, 21, CHR 44, 49, 52, 53, 55-58, DT 29-31	R-882A	GM 54, 59, 74, 90, 91, GMT 46
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RS-685	HO 9, 10, 12	R-832A	GM 27, 33, 41, 45, 51, GMT 9, 14, 19, 26, 34, MER 1, 2, 5, 6, OMC 1, 2, 4, ST 2	R-882B	GM 54, 59, 74, 90, 91, GMT 46
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RS-728	NI 13	R-853	AMC 13, 14, 16, 18-20, GM 34, IH 26, JEE 15, 18	R-909	GM 12, 13, 17, 18
RS-731	MZ 5	R-853A	AMC 13, 14, 16, 18-20, GM 34, IH 26, JEE 15, 18	R-912	CHR 14, 15, 18, DT 3, 6
RS-732	MZ 5	R-854	FOT 20, 31	R-912B	CHR 14, 15, 18, DT 3, 6
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R-1018	NI 23, NIT 9			R-973A	GM 58, 73, 88, GMT 28, 36, 44
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R-9905	GM 119, GMT 54			ST-2101	NI 13
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R-999	HO 15, 17, 19			ST-2103	FO 22, FOT 11
SLR-9129	GM 50			ST-2105	GM 17, 18
SL-12M	IH 7, 10, JEE 9			ST-2109	FOT 10, 22
SL-123M	CHM 4, 6, CHR 28, DT 13, 17	ST-2004BC	AMC 8-11, 15, CHR 22, 24, 27, 28, 55, DT 9, 11, 15, 30, FO 12, FOT 27, GM 100, 108, 115, 119, GMT 36, 44, 45, 51, 54, IH 2, 17, 19, 21, 22, JEE 12, 14	ST-2110	FO 31, FOT 17
SL-13M	GM 22, ST 4			ST-2111	TOT 8
SL-14M	CHR 30, GM 24, 28			ST-2112	TO 5
SL-140M	FO 34, 38, FOT 19, 25			ST-2113	TO 18, 20
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SL-17M	CHM 10, CHR 34, 35, 38, 42, DT 22, 23, FO 39, GM 36, 61, IH 17	ST-2005BC	FO 15, 19, 24, 27, 36, 40, FOT 7, 8, 12, 23	ST-2116	MZ 8, 9
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SL-9M	AMC 5, 7, JEE 2, 3	ST-2018RBC	FO 44, 49, GM 66, 67, GMT 33	VG-1315B	CHR 6, 7, 9, 23, DT 10, MI 4, 5, 13, MIT 5
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VG-5006T	AMC 6, FOT 30, 47, GM 38, 47, 50, 65, MER 2	VG-5076TB*	FO 55, 66	VG-814	HO 11, 16, 18, 20
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VG-5007TB*	CHR 43, 51, 57, DT 19, 27, FO 55, 56, 58, 59, 61, 62, 64, 66, FOT 27, 39	VG-5088	CHR 53, 55, 58, DT 29, 30	VG-870	CHR 14, 15, 18, 19, DT 3, 6, 7
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		WE-364X	TO 15, 21, TOT 3, 6	WE-465K	FO 14, 17
		WE-365KC	NI 6	WE-468K	GMT 49
		WE-365X	NI 6	WE-469KC	FO 7
		WE-366X	NI 10, NIT 2	WE-470KC	FO 7
		WE-369K	GM 30, 47, GMT 20	WE-471K	FO 31, 32
		WE-369X	GM 30, 47, GMT 20	WE-473KC	NI 8, 12
		WE-370KC	CHR 1, HO 5, 8, 13	WE-473X	NI 8, 12
		WE-370X	CHR 1, HO 5, 8, 13	WE-474KC	NI 20
		WE-377K	GM 69, 88, GMT 44	WE-475KC	IS 8, IST 2, NI 22, NIT 7
		WE-377X	GM 69, 88, GMT 44	WE-476K	FOT 3
		WE-378K	GM 109	WE-477K	GM 16
		WE-378X	GM 109	WE-478K	GM 29, GMT 12, JEE 7
		WE-380X	GM 112	WE-478X	GM 29, GMT 12, JEE 7
				WE-481K	FO 21, FOT 10

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Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.
WE-481X	FO 21, FOT 10	WH423NP	GM 88, GMT 44, MER 12	WL-2329F 30	CHR 43, DT 24
WE-483K	GMT 3	WH435P	FO 12, FOT 5	WL-2346F 30	GM 102
WE-484K	GMT 3	WH471CP 30	GM 53	WL-2349F	GM 119
WE-486KC	CHR 6, 7, MI 4, MZ 2	WH491P	FOT 3	WL-2352F 30	GM 104
WE-487KC	MZ 3	WH497P	FO 22, FOT 11	WL-2353F 30	GM 122
WE-488KC	NI 26, 27	WH518CP	GM 119, GMT 54	WL-2354F 30*	GM 108
WE-489KC	TO 4	WH519P	FOT 31	WL-2355F	CHM 21, CHR 58
WE-489X	TO 4	WH521ACP	GM 48	WL-2359F	GM 121
WE-491KC	NI 24, TO 27-29	WH521AP	GM 48	WL-2366F	FO 63
WE-493KC	AUD 2, 3, VW 4, 7, VWT 3, 6	WH523CP	FO 31	WL-2377F	GM 119, GMT 54, MER 15
WE-494KC	AUD 6, VW 12, 14	WH523P	FO 31	WL-2379F	FO 49
WE-509K	FOT 46, IH 27	WH529P	FO 7	WL-2380F 30	AMC 20
WE-510KC	MZT 8, TO 23, TOT 8, 9	WH534CP	GM 73	WL-2383F 30	GM 108, GMT 51, 52
WE-510K 1.00MM	MZT 8, TO 23, TOT 8, 9	WH537P	FO 12, FOT 5	WL-2385F 30	CHM 14, CHR 47
WE-511KC	TO 5	WH547CP	AMC 4, GM 26, GMT 8, JEE 6	WL-2386F 30	DT 27
WE-512KC	HO 7	WH547P	AMC 4, GM 26, GMT 8, JEE 6	WL-2390F 30	GM 120
WE-515KC	GMT 1, HO 9, 11, 12, SZT 3	WH553CP	AMC 4, GM 26, JEE 6	WL-2399F	GM 119, MER 15
WE-516KC	CHR 2, MI 1	WH558P	GM 47	WL-2403NF	GM 88, GMT 44, MER 12
WE-516X	CHR 2, MI 1	WH559P	FO 13	WL-2404F	FO 65, FOT 47
WE-517KC	GM 7, HO 18, 19, TO 8	WH561CP	GM 31	WL-2446F	FO 51, FOT 37, OMC 11
WE-518KC	NI 16, 17	WH561P	GM 31	WL-2453F	MER 15
WE-519KC	IS 6, IST 1, TO 17	WH562CP	GM 31, GMT 13	WL-2455F .75MM	FO 12, 13, FOT 5
WE-520KC	NI 20	WH564P	GM 38	WL-2481F	GM 48
WE-522KC	CHR 12, 13, MI 9, 10	WH566P	GM 21	WL-2482F	FO 42, 44, FOT 29, 33
WE-523KC	TO 18, TOT 4	WH570P	FOT 22	WL-2486F	GM 73
WE-524KC	DT 5, MI 11, MIT 3	WH579P	CHR 19, DT 7	WL-2488F	FO 44
WE-525KC	NIT 11	WH580P	OMC 10	WR-9904	GM 115
WE-526KC	HO 17	WH581CP	GM 119	W1003P	FO 34, FOT 19
WE-527KC	HO 4, SZ 4	WH582CP	FOT 47	W1009P	GM 49
WE-528KC	CHR 23, DT 10, MI 13, MIT 5	WH582P	FOT 47	W1011P	FO 29, FOT 15
WE-529K	CHR 25, DT 12	WH586P	GMT 1	W1012P	GM 42
WE-530K	GM 88	WH587CP	GMT 49	W1014P 30	FO 38, FOT 25
WE-531K	GM 20	WH587P	GMT 49	W1021P 30	FOT 28
WE-531X	GM 20	WH597CP	GM 88	W1022P	FO 43, FOT 30
WE-532K	GM 47	WH605P	DT 8, MIT 4, MZT 7	W1031P	FO 45
WE-533K	GM 38	WH606P	FO 44	W-10359KX	NIT 13
WE-534K	GM 65	WH618CP	GM 88, GMT 44	W1061P 30	CHR 43, DT 24
WE-535K	GM 21	WH645NCP	GM 58, GMT 28	W1079P	AMC 14, JEE 15
WE-536K	DT 19	WH651CP	FOT 46, IH 27	W1108NP 30*	GM 27, GMT 9, MER 1, OMC 1
WE-539KC	GM 17, 18	WH653P	FO 51, FOT 37	W1109P*	FO 35, FOT 20
WE-540KC	GM 7, TO 8	WH654P	FO 44, FOT 33	W1110P	GM 43, JEE 8, OMC 3
WE-541KC	CHR 9, MI 5-7	WH661CP	GM 119, GMT 54, MER 15	W1114P 30*	GM 69
WE-542KC	FO 10, 11, MZ 11, 13-15, MZT 4, 5	WH675CP	FO 32	W12111P	TOT 15
WE-544KC	GM 10	WH693CP	GM 119	W12139P	TOT 17
WE-546KC	GM 4, IS 1	WH695P	GMT 28	W12182P 1.00MM	NI 7
WE-547KC	GM 8, 9, IS 3, 4	WH728P	GMT 28	W12217P .50MM	TOT 17
WE-549KC	GM 1, 2, SZ 1	WH729CP	FOT 43	W12306P	MZ 11, MZT 4
WE-550KC	GM 1	WH801CP	GM 74	W12326P	TO 23, TOT 8
WE-551KC	FO 2, MZ 5, 6	WH824CP 30*	GM 58	W12764P	GM 7, TO 8
WE-552KC	FO 1	WH834CP	CHR 23, DT 10, MI 13, MIT 5	W12886CP	TOT 8
WE-554KC	HO 15	WH896CP	MER 2, OMC 2	W12886P+	TOT 8
WE-556KC	HO 21	WH897CP	MER 2, OMC 2	W12895P	TO 5
WE-558KC	NI 29-32	WH909CP	GMT 34	W12902P	TO 8
WE-559KC	NI 23, NIT 9	WH909P	GMT 34	W13013P	NIT 8
WE-560KC	NIT 8	WH951P 30	GMT 40, MER 11	W13502P	HO 17
WE-561KC	NI 13	WH996CP	IH 24	W13503P	NIT 9
WE-562KC	TOT 12	WH997CP	IH 19, 21	W13507P	CHR 12, MI 9
WE-563KC	TO 24	WL-2163F 30	GM 66, GMT 32, MER 8, OMC 6, ST 6	W13508P	IST 6
WE-585KC	BMW 3, 5, 10	WL-2165F	GM 80	W145P	FO 25
WE-596KC	DT 4, MIT 2	WL-2166NF	GM 80	W233P	GM 63
WE-599KC	NIT 8	WL-2206F	GM 28, GMT 11	W235NP*	GM 66, GMT 32, MER 8, OMC 6, ST 6
WE-605K	GM 31, 32, GMT 13	WL-2239NF 30	GM 115	W235P+	GM 66, GMT 32, MER 8, OMC 6, ST 6
WE-605X	GM 31, GMT 13	WL-2240NF	GM 100, GMT 50	W238P 30	CHR 56
WE-611KC	TOT 7	WL-2242F 30	GM 100	W244NP	CHM 5, CHR 22, 24, 27, DT 9, 11, 15
WE-612KC	FOT 2, MZ 10, MZT 3	WL-2256F	GM 88, GMT 44, MER 12, VOM 2	W246NP	FO 52, FOT 38
WE-613K	FOT 22	WL-2262F	GM 105	W272AP	FO 42, 44, FOT 29, 33, MER 9, OMC 8
WE-615KC	MZ 8, 9	WL-2266F	CHR 58	W273AP	FO 42, 44, FOT 29, 33
WE-616KC	IS 10, IST 5	WL-2267F 30	GM 117	W275NP	FO 24, 36, FOT 12, 23
WE-617K 1.00MM	IST 6	WL-2268F	GM 115	W279P	GM 68, 83, OMC 7
WE-618KC	MZ 16, 17, MZT 9	WL-2269F 30	GM 97	W285NCP 30	CHM 12, CHR 43, DT 24
WE-619KC	MI 1	WL-2291F	FO 56	W285NP	CHM 12, CHR 43, DT 24
WE-628K	GMT 28	WL-2300F	GM 115	W287P 30	GM 79
WE-765KC	TOT 10, 11	WL-2303NF	FO 62	W288P	GM 34, 97
WE-882KC .50MM	SB 10	WL-2304F	GM 88, GMT 44	W295AP+	GM 75, GMT 38, OMC 9
WH1117CP*	IH 2	WL-2305F	FO 42, 44, FOT 29, 33, MER 9, OMC 8	W295P*	GM 75, GMT 38, OMC 9
WH273CP	FO 42, 44	WL-2315F 30	CHR 53	W302NP	FO 19, FOT 8
WH304P	FO 56	WL-2316F 20	CHR 47	W310NP*	GM 80
WH345NCP	GM 88, MER 12, VOM 2	WL-2320F	GM 91	W310P+	GM 80
WH345NP	GM 88, MER 12, VOM 2	WL-2321F 30	GM 91	W311P	GM 33, GMT 14, ST 2
WH395P	FOT 39	WL-2323F	GM 120	W32NP	CHM 7-9, CHR 29, 31, 33, DT 18, 20
WH418CP	FO 65, FOT 47	WL-2328F 30	GM 108		
WH418P	FO 65, FOT 47				
WH423NCP	GM 88, GMT 44				

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W322NP 30	CHR 35, DT 22	W536NP	GM 73, GMT 36, MER 10	1209M	IH 8, 11, 16
W332AP	GM 91	W541P	FO 2, MZ 5	1209NP 1.00MM	TO 14, TOT 2
W336P	FO 51	W545CP .75MM	GM 29	1211M	GMT 10
W340P 30	GM 86	W545P	GM 29	12110P	TO 13, TOT 1
W344P 20	GM 120	W546P	FO 1	12111P	TOT 15
W345NP	GM 88, GMT 44, MER 12, VOM 2	W550P	GM 88	12139P	TOT 17
W350NP 30*	CHR 58	W569P	GM 20	12149P	NI 26
W350P 30+	CHR 58	W571CP	CHR 18, DT 6	12152P 1.50MM	TO 9
W351NP	GM 123	W572P	GM 65	12159P .75MM	NI 15, NIT 3
W352NP	FO 35, FOT 20, 31	W573P	GM 65	1216M	GM 94, 98, 112, 117, 123, 124
W354P	FO 62, FOT 44	W574CP	CHR 25, DT 12	12161P	HO 1
W357P 20	GM 87	W584P	GM 9	12162P	HO 2
W362NCP 30	AMC 18, JEE 18	W599P 40*	GM 51	12165P 1.50MM	MZ 1
W362NP	AMC 18, JEE 18	W609P	GM 124	1218M	IH 2, 5, 17, 19, 21, 22, 24
W366NP	CHR 53, DT 29	W611P	GM 73, GMT 36	12181P .75MM	HO 2
W368P	GM 118	W636P	MZT 5	12182P 1.00MM	NI 7
W369P	GM 120	W640P	GM 58, GMT 28, MER 7	1220M	GM 34, 62, 69, 70, 79, 87, 97, 105, 111, 116, 121
W37P	CHM 4, 6, CHR 26, 28, DT 13, 17	W645P	GM 58, GMT 28	1220RA	FO 22, FOT 11
W381NP*	FO 56, 59, FOT 41	W656P	DT 19	12200P .75MM	MZ 1
W381P+	FO 56, 59, FOT 41	W677CP	JEE 13	12204P	MZ 2
W392AP	GM 122	W677P	JEE 13	12206P	CHR 1
W397P	FO 8	W69P 30	GM 107	12207P	CHR 10, DT 1
W399P 30	GMT 45, OMC 10	W698P 30	GM 44, GMT 18, MER 4	12217P .50MM	TOT 17
W400AP	GM 104, GMT 51	W71P 20	GM 39	12220P .75MM	CHR 20, 21, DT 8, MI 12
W402P	GM 108, GMT 52	W88NP	JEE 2, 3	12221P 1.00MM	GM 1, SZ 1
W403CP 30	GM 51, GMT 26, MER 6, OMC 4	W92P	GMT 27	1223M	FO 33, 39, 41, 43, FOT 18, 28, 30
W403P	GM 51, GMT 26, MER 6, OMC 4	W933P	IH 8	1229VA	FOT 16
W405P	CHM 15, CHR 51, DT 27	W980P 20	GMT 35	12306P	MZ 11, MZT 4
W406AP	CHM 18, CHR 55, DT 30	W-997X	FO 34	12325P 1.00MM	HO 14
W409P	AMC 9, 11, IH 9, 14, JEE 12, 14	1003P	FO 34, FOT 19	12326P	TO 23, TOT 8
W411NP	GM 105	1005M	FO 28, 34, 38, FOT 14, 19, 25	1234M	GM 54, 81, 91, 101, 102, 109, 113, 120, GMT 55
W412P	GM 115	1009P	GM 49	1235M	GM 57, 64, 66, 71, 73, 75, 80, 88, 104, GMT 30, 32, 36, 38, 40, 44, 45, 51, MER 8, 10-12, OMC 6, 9, 10, ST 6, VOM 1, 2
W413AP 30*	FO 63, FOT 45	1010M	CHM 4, 6, CHR 26, 28, DT 13, 17	12393P .75MM	TOT 13
W413NP 30+	FO 63, FOT 45	1011M	CHM 7-9, CHR 29, 31, 33, DT 14, 16, 18, 20	1244M	AMC 3, 8, 9, 11, CHR 17, IH 9, 14, JEE 5, 12-14
W415CP	AMC 20, IH 26, JEE 19	1011P	FO 29, FOT 15	12490P	NI 29
W416P	FO 51, FOT 37	1012P	GM 42	1255M	GM 100, 115
W417NP 30	GM 121	1014P 30	FO 38, FOT 25	12552P	TO 11
W423NP	GM 88, GMT 44, MER 12	1020A	GM 58, GMT 28	1269M	GM 83, 106, 107, 114
W424NP*	CHR 58, DT 31	1020CP	GM 58, GMT 28, MER 7	1269V20	IH 13, 18
W424P	CHR 58, DT 31	1021P 30	FOT 28	1269Y	IH 13, 18
W425NP 30*	FO 49	1022P	FO 43, FOT 30	12738P .50MM	CHR 2, MI 1
W427P	FO 57, FOT 42	1031P	FO 45	12764P	GM 7, TO 8
W428P	CHR 47	1035CP	FO 14, 17	1281AF	NIT 12
W433NP	FO 20, FOT 9	10359KX	NIT 13	12886CP	TOT 8
W449P 30	GM 54	10590KX	IST 8, 9	12886P+	TOT 8
W450NP	GM 47, GMT 20	106L	MER 7	12895P	TO 5
W451P	FO 50, FOT 36	1061NP 30*	CHR 43, DT 24	12902P	TO 8
W454NP	GM 73, GMT 36, MER 10, VOM 1	1061P 30	CHR 43, DT 24	12958P	DT 5
W456NP*	AMC 9, 11, JEE 12, 14	1063AF	GM 1, 2, SZ 1-4, SZT 2	12963P 1.00MM	TO 27
W456P	AMC 9, 11, JEE 12, 14	1064AF	GM 4, 5, IS 1, 2	13013P	NIT 8
W457P 30	GM 26	1079P	AMC 14, JEE 15	1311MRA	FIA 5
W460P	GM 100, GMT 50	1088M	JEE 9, 10	13162P	HO 15
W463P	FO 51, FOT 37, MER 13, OMC 11	1089M	FOT 16	13165P*	HO 8
W464CP	GM 29, GMT 12, IST 7, JEE 7	1091M	IH 3, 4, 7, 10, 12, 15, JEE 2, 3	1325M	NI 2, 5, NIT 1
W464P	GM 29, GMT 12, IST 7, JEE 7	1094M	GM 42, 49, GMT 16, 17, 21, 25, 31	13502P	HO 17
W465NP	AMC 4, GM 26, JEE 6	1099AF	TO 5	13503P	NIT 9
W466NP*	GM 109	1107NP*	GM 45, GMT 19, MER 5	13507P	CHR 12, MI 9
W466P+	GM 109	1107P+	GM 45, GMT 19, MER 5	13508P	IST 6
W470AP*	AMC 11, JEE 14	1108NP*	GM 27, GMT 9, MER 1, OMC 1	13509P	GM 1
W470NP	AMC 11, JEE 14	1108P	GM 27, GMT 9, MER 1, OMC 1	1400AA	FO 7
W472NP*	GM 74	1109P	FO 35, FOT 20	1401M	AMC 13, 14, 16, 18-20, IH 26, JEE 15, 18, 19
W472P+	GM 74	1110P	GM 43, JEE 8, OMC 3	1403M	FO 49, 50, 57, FOT 36, 42
W473P 30	GM 112	1112P 30	FO 27	1404M	GM 100, 108, 115, 119, GMT 50, 52, 54, MER 14-16
W475NP	GM 37, GMT 15	1114P 30	GM 69	1412M	FO 8
W476P	FO 5	1133M	FO 26, 29, FOT 13, 15, 27	1414M	FO 63, 65, FOT 45, 47, MER 3
W481P	FO 31, FOT 17	1145M	GM 63, 66, 80, GMT 29, 32, MER 8, OMC 6	1415SB 10	GM 42, 49, GMT 16, 21
W489P	FO 14	1146M	GM 34, 97, 111, GMT 41	1421M	GM 39, 40, 68, 83, OMC 7, ROV 2, SM 5
W490P .50MM	FO 31	1149M	CHM 13, CHR 46, 50, 54	1422M	GM 86, 103, 118, 122, JEE 17
W495P	FO 12, FOT 5	1160M	FO 33, 41, 43, 45, FOT 18, 28, 30	1439M	FO 15, 19, 24, 36, FOT 7, 8, 12, 23
W502NP*	GM 50	1164M	GM 96, 99	1442M	FOT 1, 2, MZ 4, 10, MZT 1-3
W502P+	GM 50	1170M	GM 49, 56, GMT 21, 27	1443M	FO 12, 13, FOT 3, 5
W506P	FO 44	1177M	GM 85, 110, GMT 43	1445M	FO 47, 52, 56, 58, 59, 61, 62, FOT 35, 38, 39, 41, 44
W516CP .50MM	GM 29, GMT 12, JEE 7	1198M	GMT 37, 47	145P	FO 25
W516P	GM 29, GMT 12, JEE 7	12012NP	NI 2, 5, NIT 1		
W517CP	FOT 33	1202M	GM 27, GMT 9, MER 1, OMC 1		
W520P	FO 21, FOT 10	1203BF	HO 21		
W525CP	AMC 3, CHR 17, JEE 5	1203M	GM 33, 41, 45, 51, GMT 14, 19, 26, 34, MER 5, 6, OMC 4, ST 2		
W525P	AMC 3, CHR 17, JEE 5	1204M	FO 27, 37, 40, 42, 44, 51, FOT 24, 29, 33, 37, MER 9, 13, OMC 8, 11		
W526P	CHR 43, DT 24	1205M	GM 36, 43, JEE 8, OMC 3		
W527P	CHR 14, DT 3				
W531P	GM 29				
W533P	CHR 15, 18, DT 6				
W534NP	GM 73				



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Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.	Part No.	Manufacturer and Line No.
1450M	FO 35, FOT 20, 31	1800CP	CHM 13, CHR 46, 50	205-105	FO 15, 19, FOT 7, 8
1451M	CHM 11, 12, 14, 15, CHR 35, 37, 39-41, 43, 45, 47, 51, DT 22, 24, 27	1804V	CHM 13, CHR 46, 50, 54, DT 25	205-1057	TO 4
1453M	CHM 16-21, CHR 49, 52, 53, 55-58, DT 29-31	1805M	CHR 10, 20, 21, DT 1, 4, 8, MI 12, MIT 4, MZT 7	205-1058	TO 4
1454M	CHM 2, 5, CHR 22, 24, 27, DT 9, 11, 15	1806M	CHR 6, 7, 9, MI 4, 5	205-1066	TOT 17
1459M	FO 5, 6	1807M	FO 31, FOT 17	205-108A	FO 24, FOT 12
1460A	DT 19	1809M	CHR 25, DT 12	205-108AM	FO 24
1460M	FO 12, 13, FOT 3, 5	1810M	CHR 11-13, DT 2, 5, MI 8-11, MIT 1, 3	205-108M	FO 24, FOT 12
1461M	AMC 4, GM 26, GMT 8, JEE 6, MER 2, OMC 2	1811M	GM 71, 73, 88, GMT 36, 44	205-1083	GM 30, 47, GMT 20
1462M	GM 30, 35, 47, 48, 53, GMT 20	1826AF	HO 11, 12, 18-20	205-1083M	GM 30, 47, GMT 20
1463M	GM 37, 44, 58, GMT 15, 18, 28, MER 4, 7	1828F	HO 16	205-1086	GMT 54
1466M	GM 54, 55, 74, 90, 91, 109, GMT 46, 53	1830CP	FO 26, FOT 13, 15	205-1086M	GMT 54
1467M	FOT 43, 46, IH 27	1834V	FO 33, 41, 43, 45, 48, 54, FOT 13, 15, 18, 28, 30	205-1087	FOT 31
1473M	CHM 5, CHR 27, DT 15	1834V20	FO 33, 41, 43, 45, 48, 54, FOT 13, 15, 18, 28, 30	205-1087M	FOT 31
1484M	CHM 11, 12, 14, 15, CHR 35, 37, 39-41, 43, 45, 47, 51, DT 22, 24, 27	1835CPA	FO 48, 54	205-109	FO 36, FOT 23
1485M	GM 15, 16, 20, GMT 4	1838M	FO 21, FOT 9, 10	205-109M	FO 36, FOT 23
1487M	CHR 14-16, 18, 19, DT 3, 6, 7	1840M	CHR 14, 18, DT 3, 6	205-1092	JEE 13
1489M	GM 59	1842M	FO 12, 13, FOT 5	205-1092M	JEE 13
1490CPA	GM 17, 18	1843M	FO 22, FOT 11	205-1093	CHR 14, 18, DT 6
1492M	GM 29, 31, 32, GMT 12, 13, IST 7, JEE 7	1844M	FOT 22	205-1093M	CHR 14, 18, DT 6
1493M	FO 31, FOT 17	1858M	CHR 6, 7, 20, 21, DT 5, 8, GMT 3, IS 6, 8, 10, IST 1, 2, 5, 6, MI 4, 6, 7, 11, 12, MIT 3, 4, MZT 7	205-1095	CHR 2, MI 1
1494M	FO 14, 17	1859M	TO 21, 23, TOT 6, 8	205-1097	CHR 14, 18, DT 6
1496M	GMT 49	1863M	FO 10, 11, MZ 11, 14, 15, MZT 4, 5	205-1097M	CHR 14, 18, DT 6
1503AF	TOT 16, 17	1865M	NI 19, 22, NIT 5, 7, 8	205-1098	DT 19
1505CAA	FO 34, 38, FOT 19, 25	1886M	FO 31, 32	205-1098M	DT 19
1525CA 10	FOT 16	1894M	CHR 25, DT 12	205-1099	DT 19
1540A	GM 21	1904V	CHM 10, CHR 28, 34, DT 17	205-1099M	DT 19
1544Y	GM 21	1905CP	GMT 25, 31	205-110	AMC 8, 9, 11, IH 9, 14, JEE 12, 14
1555CPA	GM 34, 79, 87, 97, 105, 111, 116, 121, GMT 41	1920RA	CHR 25, DT 12	205-110M	AMC 8, 9, 11, IH 9, 14, JEE 12, 14
1557M	GM 51, GMT 26, 34, MER 6, OMC 4	1950CP	GM 49, 56, GMT 21, 27	205-1100	DT 24
1559VA	GM 96, 99, GMT 41	1995CP	JEE 9, 10	205-1100M	DT 24
1564M	TO 14, TOT 2	1995CPA	JEE 9, 10	205-1102	CHR 23, DT 10
1569M	TO 13, 22, 25, TOT 1	2000CPA	FO 33, 39, 41, 43, 45, FOT 18, 28, 30	205-1102M	CHR 23, DT 10
1570M	NI 11, 21, NIT 6, 10	2020CP	GM 15, 16, 19, 20, 23, 27, 33, 41, 45, 46, 51, 52, 63, 66, 71, 80, GMT 4, 6, 9, 14, 19, 26, 29, 32, 40, MER 1, 5, 6, 8, 11, OMC 1, 4, 6, ST 2, 6	205-1103	FO 7
1575CPA	IH 8, 11, 16	205-L	GM 47	205-1103M	FO 7
1579V	IH 8, 11, 16	205-1002	FOT 33	205-1105	FO 12
1592M	NI 1, 3, 4, 6, 7	205-1002M	FOT 33	205-1105M	FO 12
1601BF	MIT 6	205-1003	FOT 47	205-1106	FO 14
1708M	TO 9, 10	205-1003M	FOT 47	205-1106M	FO 14
1713M	VW 1, 5, 6, VWT 1, 4, 5	205-1007	GM 26, GMT 8	205-1107	FO 14
1726M	AUD 1-6, CHR 8, VW 2-4, 7-9, 11-13, VWT 3, 6, 7, 9	205-1007M	GM 26, GMT 8	205-1107M	FO 14
1729M	TO 13, 15, TOT 1, 3	205-1008	GM 26	205-1108	FO 17
1731M	FO 5, 8	205-1008M	GM 26	205-1108M	FO 17
1734M	NI 2, 5, NIT 1	205-1009	GM 27, GMT 9	205-1110	FO 22
1735M	TOT 15, 17	205-1009M	GM 27, GMT 9	205-1110M	FO 22
1736AF	CHR 23, DT 10, MI 13, MIT 5	205-101	FO 56, 59, FOT 39, 41	205-1111	FO 31
1746M	GMT 5, IST 3, 4, JEE 4	205-101M	FO 56, 59, FOT 39, 41	205-1111M	FO 31
1749M	GM 57, 64, 66, 71, 73, 75, 80, 88, 104, GMT 30, 32, 36, 38, 40, 44, 45, 51, MER 8, 10-12, OMC 6, 10, VOM 1, 2	205-1010	GM 27	205-1112	FO 31
1750M	GM 57, 64, 66, 71, 73, 75, 80, 88, GMT 30, 32, 36, 38, 40, 44, 45, MER 8, 10-12, OMC 6, 10, VOM 1, 2	205-1010M	GM 27	205-1112M	FO 31
1755M	GM 30, 38, 47, 48	205-1015	GM 30, 47	205-1113C	FO 31
1756M	GM 26	205-1015M	GM 30, 47	205-1113M	FO 31
1757M	GM 50, 65	205-1016	GM 35	205-1114	FO 31
1758M	TOT 13, 14	205-1019	GM 58, GMT 28	205-1115	FO 44
1771M	TOT 4, 7	205-1019M	GM 58, GMT 28	205-1115M	FO 44
1774M	TOT 5, 10, 11	205-102	CHR 22, 24, 27, DT 9, 11, 15	205-1116	FO 51, FOT 37
1781M	FOT 31	205-102M	CHR 22, 24, 27, DT 9, 11, 15	205-1116M	FO 51, FOT 37
1782M	GM 47, 48	205-1020	GM 58, GMT 28	205-1118	FOT 5
1783M	TOT 16, 17	205-1020M	GM 58, GMT 28	205-1118M	FOT 5
1785CP	ST 3-5, 7, STT 2-4	205-1021	GM 58, GMT 28	205-1119	FOT 5
1785M	GM 29, GMT 12, IST 7, JEE 7	205-1021M	GM 58, GMT 28	205-1119M	FOT 5
1786M	GM 15, 16, 20, GMT 4	205-1024	GM 73, GMT 36	205-112	FO 35, FOT 20, 31
1787M	GM 54, 55, 74, 90, 91, 109, GMT 46, 53	205-1026	GM 73, GMT 36	205-112M	FO 35, FOT 20, 31
1789M	GM 54, 81, 91, 109	205-1026M	GM 73, GMT 36	205-1120	FOT 11
1790M	DT 19	205-1027	GM 73	205-1120M	FOT 11
1791M	GM 37, 44, 58, GMT 15, 18, 28, MER 4, 7	205-1027M	GM 73	205-1121	FOT 33
1792M SEMI	CHR 14, 16, 18, 19, DT 6, 7	205-103	CHR 27, DT 15	205-1121M	FOT 33
1794M	TO 9, 10	205-103M	CHR 27, DT 15	205-1123	FOT 47
		205-1036	GMT 34	205-1123M	FOT 47
		205-1036M	GMT 34	205-1124	FOT 47
		205-1037	GM 88, GMT 44	205-1124M	FOT 47
		205-1037M	GM 88, GMT 44	205-113	GM 115, 119, GMT 54
		205-1038	GM 88, GMT 44	205-113M	GM 115, 119, GMT 54
		205-1038M	GM 88, GMT 44	205-1130	GM 17
		205-104	CHR 27, DT 15	205-1130M	GM 17
		205-104M	CHR 27, DT 15	205-1131	GM 20
		205-1049	NI 8, 12	205-1131M	GM 20
				205-1132	GM 21
				205-1132M	GM 21
				205-1134	GM 26
				205-1134M	GM 26
				205-1135	GM 26
				205-1135M	GM 26

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205-1136	GM 26	205-1299	JEE 7	205-1878	IS 10, IST 5
205-1136M	GM 26	205-130	GM 71, 80, 88, GMT 40, 44, 45	205-1878M	IS 10, IST 5
205-1138	GM 30, 47	205-130M	GM 71, 80, 88, GMT 40, 44, 45	205-1882	DT 10, MI 13, MIT 5
205-1138M	GM 30	205-1300	GM 31	205-1882M	DT 10, MI 13, MIT 5
205-114	GM 45, 51, GMT 19, 26	205-1300M	GM 31	205-191	GM 47
205-114M	GM 45, 51, GMT 19, 26	205-1308	GM 74	205-191M	GM 47
205-1141	GM 47	205-1308M	GM 74	205-192	GM 44, GMT 18
205-1141M	GM 47	205-1309	GM 91	205-192M	GM 44, GMT 18
205-1148	GM 74	205-1309M	GM 91	205-1921	GM 47
205-1148M	GM 74	205-1310	GM 91	205-1921M	GM 47
205-1149	GM 88	205-1310M	GM 91	205-1922+	GM 47
205-1149M	GM 88	205-1318	FOT 22	205-1922M+	GM 47
205-115	GM 51, GMT 26	205-1318M	FOT 22	205-194	GM 54
205-115M	GM 51, GMT 26	205-132A	CHR 58	205-1944	FO 12
205-1151	GM 88	205-132AM	CHR 58	205-1944M	FO 12
205-1151M	GM 88	205-132M	CHR 58	205-195	GM 109
205-1153	GM 88, GMT 44	205-1320	IS 8, IST 2	205-195M	GM 109
205-1153M	GM 88, GMT 44	205-1320AM	IS 8, IST 2	205-199	GM 29, GMT 12, JEE 7
205-1155	GMT 8	205-1320M	IS 8, IST 2	205-199M	GM 29, GMT 12, JEE 7
205-1155M	GMT 8	205-1323	CHR 2	205-213	CHR 47
205-1156	GM 88, GMT 44	205-1323M	CHR 2	205-213M	CHR 47
205-1156M	GM 88, GMT 44	205-1324	CHR 2, MI 1	205-214	AMC 4, GM 26, JEE 6
205-116	GMT 26	205-1324M	CHR 2, MI 1	205-215	AMC 16, 18, JEE 18
205-116M	GMT 26	205-1325	CHR 2, MI 1	205-215M	AMC 16, 18, JEE 18
205-1167	NI 12	205-1325M	CHR 2, MI 1	205-216	AMC 11, JEE 14
205-117	AMC 13, 14, JEE 15	205-1335	DT 5, MI 11, MIT 3	205-216M	AMC 11, JEE 14
205-1177	TO 5	205-1335M	DT 5, MI 11, MIT 3	205-217A	CHR 43
205-1177M	TO 5	205-134	GM 86, JEE 17	205-217AM	CHR 43
205-1182	TO 23, TOT 8	205-134M	GM 86, JEE 17	205-217M	CHR 43
205-1182M	TO 23, TOT 8	205-1345M	FOT 33	205-218A	CHR 43, DT 24
205-1184	GM 31, GMT 13	205-1356	GM 65	205-218AM	CHR 43, DT 24
205-1184M	GM 31, GMT 13	205-1356M	GM 65	205-218M	CHR 43, DT 24
205-1186	FOT 3	205-1360	IS 6, IST 1	205-224	GM 30, 47, GMT 20
205-1186M	FOT 3	205-1360M	IS 6, IST 1	205-224M	GM 30, 47, GMT 20
205-119	GM 66, GMT 32, ST 6	205-1361	NIT 8	205-225	GM 47, GMT 20
205-119M	GM 66, GMT 32, ST 6	205-1362	NIT 8	205-225M	GMT 20
205-1205	CHR 14, 18, DT 6	205-137	FO 63, 65, FOT 45, 47	205-227A	GM 29, GMT 12, JEE 7
205-1205M	CHR 14, 18, DT 6	205-137M	FO 63, 65, FOT 45, 47	205-227AM	GMT 12, JEE 7
205-121	GM 87	205-1375	CHR 9, MI 5	205-227M	GM 29, GMT 12
205-1212	FOT 11	205-1375M	CHR 9, MI 5	205-228A	GM 29, GMT 12, JEE 7
205-1212M	FOT 11	205-140	GM 105, 116	205-228AM	GM 29, GMT 12, JEE 7
205-1215	FOT 33	205-140M	GM 105	205-228M	GM 29
205-1219	GM 26	205-1415	GM 47	205-232	GM 53
205-1219M	GM 26	205-1415M	GM 47	205-233	GM 53
205-122A	CHR 51, DT 27	205-142	CHR 55, DT 30	205-238	GM 122
205-122AM	CHR 51, DT 27	205-146	FO 12, FOT 5	205-239	GMT 26
205-122M	CHR 51, DT 27	205-146M	FO 12, FOT 5	205-239M	GMT 26
205-124	FO 49, 50, 57, FOT 36, 42	205-151	GM 69	205-243	CHR 43, DT 24
205-124AM	FO 50, 57, FOT 36, 42	205-151M	GM 69	205-243M	CHR 43, DT 24
205-124M	FO 50, 57	205-152	FO 20	205-244A	DT 24
205-125	FO 51	205-153	FO 42, 44, FOT 29, 33	205-244AM	DT 24
205-125M	FO 51	205-153M	FO 42, 44, FOT 29, 33	205-245	DT 8, MIT 4
205-1262M	FOT 10	205-155	DT 30	205-245M	DT 8, MIT 4
205-1265	GMT 34	205-156	DT 31	205-247	CHR 20, DT 8
205-1265M	GMT 34	205-156M	DT 31	205-247M	CHR 20, DT 8
205-1266	GMT 34	205-157	GM 3	205-250	DT 8, MIT 4, MZT 7
205-1266M	GMT 34	205-158	GM 88, GMT 44	205-250M	DT 8, MIT 4, MZT 7
205-1269	GM 73	205-158M	GM 88, GMT 44	205-252	FO 12, FOT 5
205-1269M	GM 73	205-160	GMT 54	205-252M	FO 12, FOT 5
205-127A	FO 51, FOT 37	205-160M	GMT 54	205-257	FO 31, FOT 17
205-127AM	FO 51, FOT 37	205-161	GM 108, GMT 52	205-257M	FO 31, FOT 17
205-127M	FO 51, FOT 37	205-161M	GM 108, GMT 52	205-258	FO 31
205-1270M	GM 73, GMT 36	205-162	GM 71, 80, GMT 40	205-258M	FO 31
205-1271	GM 73	205-162M	GM 71, 80, GMT 40	205-260	FO 44, FOT 33
205-1271M	GM 73	205-167	CHR 53, DT 29	205-260M	FO 44, FOT 33
205-1276+	GM 88	205-170	IH 19-22	205-261	FO 51, FOT 37
205-1276M+	GM 88	205-170M	IH 19-22	205-261M	FO 51, FOT 37
205-1282	GM 104, GMT 51	205-172	FO 62, FOT 44	205-263	FOT 5
205-1282M	GM 104, GMT 51	205-174	GM 113, 120	205-263M	FOT 5
205-1283	GM 75, GMT 38	205-1779E	TO 8	205-265	FOT 31
205-1283M	GM 75, GMT 38	205-1779EM	TO 8	205-265M	FOT 31
205-1285	GM 73, GMT 36	205-179	GM 121	205-268	FOT 47
205-1285M	GM 73, GMT 36	205-181	CHR 14, DT 3	205-268M	FOT 47
205-1286	GM 73, GMT 36	205-181M	CHR 14, DT 3	205-269A	GM 26, GMT 8
205-1286M	GM 73, GMT 36	205-183A	CHR 51, DT 27	205-269AM	GM 26, GMT 8
205-129	GM 69	205-183AM	CHR 51, DT 27	205-270	GM 26
205-129M	GM 69	205-185	FO 37, FOT 24	205-270M	GM 26
205-1296	GM 29, GMT 12, IST 7	205-186	GM 100, GMT 50	205-272	GM 47
205-1296M	GM 29, GMT 12, IST 7	205-186M	GM 100, GMT 50	205-273	GM 47
205-1297	GM 29	205-1861	FO 10, MZ 14	205-274A	FOT 37
205-1297M	GM 29	205-1861M	FO 10, MZ 14	205-274AM	FOT 37
205-1298	GMT 12	205-1875	IST 6	205-274M	FOT 37
205-1298M	GMT 12	205-1875M	IST 6	205-301	TO 21, TOT 6

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205-305	TO 9	205-6026	GM 73, GMT 36	205-6118	FOT 5
205-311	NI 10, NIT 2	205-6026M	GM 73, GMT 36	205-6118M	FOT 5
205-312	NI 15, 18, NIT 3, 4	205-6027	GM 73	205-6119	FOT 5
205-329	GMT 2, IS 6, IST 1, OP 3	205-6027M	GM 73	205-6119M	FOT 5
205-330	TO 23, TOT 8	205-603	CHR 27, DT 15	205-612	FO 35, FOT 20, 31
205-343	NI 18, NIT 4	205-603M	CHR 27, DT 15	205-612M	FO 35, FOT 20, 31
205-352	TO 9, 10	205-6035	GMT 3	205-6120	FOT 11
205-353	TO 21, TOT 6	205-6036	GMT 34	205-6120M	FOT 11
205-354	TO 23, TOT 8	205-6036M	GMT 34	205-6121	FOT 33
205-354M	TO 23, TOT 8	205-6037	GM 88, GMT 44	205-6121M	FOT 33
205-358	AMC 3, JEE 5	205-6037M	GM 88, GMT 44	205-6123	FOT 47
205-358M	AMC 3, JEE 5	205-6038	GM 88, GMT 44	205-6123M	FOT 47
205-359	CHR 17, JEE 5	205-6038M	GM 88, GMT 44	205-6124	FOT 47
205-359M	CHR 17, JEE 5	205-604	CHR 27, DT 15	205-6124M	FOT 47
205-360	AMC 11, JEE 14	205-604M	CHR 27, DT 15	205-6127	GM 6, TO 7
205-360M	AMC 11, JEE 14	205-6049	NI 8, 12	205-6127M	GM 6, TO 7
205-361	CHR 1	205-605	FO 15, 19, FOT 7, 8	205-6128	GM 7
205-361M	CHR 1	205-6052	NI 22, NIT 7	205-6128M	GM 7
205-369	CHR 14, DT 3	205-6057	TO 4	205-613	GM 115, 119, GMT 54
205-369M	CHR 14, DT 3	205-6058	TO 4	205-613M	GM 115, 119, GMT 54
205-370	CHR 18, DT 6	205-606M+	GMT 34	205-6130	GM 17
205-370M	CHR 18, DT 6	205-6064	TO 27	205-6130M	GM 17
205-374	CHR 11, DT 2, MI 8, MIT 1	205-6066	TOT 17	205-6131	GM 20
205-374M	CHR 11, DT 2, MI 8, MIT 1	205-6072	AUD 6, VW 12	205-6131M	GM 20
205-375	CHR 11, DT 2, MI 8, MIT 1	205-608A	FO 24, FOT 12	205-6132	GM 21
205-375M	CHR 11, DT 2, MI 8, MIT 1	205-608AM	FO 24	205-6132M	GM 21
205-382	FO 14	205-608M	FO 24, FOT 12	205-6134	GM 26
205-382M	FO 14	205-6083	GM 30, 47, GMT 20	205-6134M	GM 26
205-383	FO 14	205-6083M	GM 30, 47, GMT 20	205-6135	GM 26
205-383M	FO 14	205-6084	GMT 49	205-6135M	GM 26
205-386	FO 31	205-6084M	GMT 49	205-6136	GM 26
205-386M	FO 31	205-6086	GMT 54	205-6136M	GM 26
205-388	FO 44	205-6086M	GMT 54	205-6138	GM 30, 47
205-388M	FO 44	205-6087	FOT 31	205-6138M	GM 30
205-390	FO 47, 52, FOT 35, 38	205-6087M	FOT 31	205-614	GM 45, 51, GMT 19, 26
205-391	FOT 3	205-609	FO 36, FOT 23	205-614M	GM 45, 51, GMT 19, 26
205-391M	FOT 3	205-609M	FO 36, FOT 23	205-6140	GM 38
205-396	FOT 5	205-6091	FOT 46, IH 27	205-6140M	GM 38
205-396M	FOT 5	205-6091M	FOT 46, IH 27	205-6141	GM 47
205-397	FOT 9	205-6092	JEE 13	205-6141M	GM 47
205-397M	FOT 9	205-6092M	JEE 13	205-6142	GM 50
205-398	FO 21, FOT 10	205-6093	CHR 14, 18, DT 6	205-6142M	GM 50
205-398M	FO 21, FOT 10	205-6093M	CHR 14, 18, DT 6	205-6144	GM 50
2056BF	BL 9, NI 2, 5, NIT 1	205-6094	CHR 15, 19, DT 7	205-6144M	GM 50
205-6002	FOT 33	205-6094M	CHR 15, 19, DT 7	205-6146	GM 65
205-6002M	FOT 33	205-6095	CHR 2, MI 1	205-6146M	GM 65
205-6003	FOT 47	205-6095M	CHR 2, MI 1	205-6147M	GM 65
205-6003M	FOT 47	205-6097	CHR 14, 18, DT 6	205-6148	GM 74
205-6004	FOT 43	205-6097M	CHR 14, 18, DT 6	205-6148M	GM 74
205-6004M	FOT 43	205-6098	DT 19	205-6149	GM 88
205-6006	GM 16	205-6098M	DT 19	205-6149M	GM 88
205-6006M	GM 16	205-6099	DT 19	205-615	GM 51, GMT 26
205-6007	GM 26, GMT 8	205-6099M	DT 19	205-615M	GM 51, GMT 26
205-6007M	GM 26, GMT 8	205-610	AMC 8, 9, 11, IH 9, 14, JEE 12, 14	205-6151	GM 88
205-6008	GM 26	205-610M	AMC 8, 9, 11, IH 9, 14, JEE 12, 14	205-6151M	GM 88
205-6008M	GM 26	205-6100	DT 24	205-6152	GM 88
205-6009	GM 27, GMT 9	205-6100M	DT 24	205-6152M	GM 88
205-6009M	GM 27, GMT 9	205-6102	CHR 23, DT 10	205-6153	GM 88, GMT 44
205-601	FO 56, 59, FOT 39, 41	205-6102M	CHR 23, DT 10	205-6153M	GM 88, GMT 44
205-601M	FO 56, 59, FOT 39, 41	205-6103	FO 7	205-6155	GMT 8
205-6010	GM 27	205-6103M	FO 7	205-6155M	GMT 8
205-6010M	GM 27	205-6105	FO 12	205-6156	GM 88, GMT 44
205-6015	GM 30, 47	205-6105M	FO 12	205-6156M	GM 88, GMT 44
205-6015M	GM 30, 47	205-6106	FO 14	205-6157	HO 6, 7
205-6016	GM 35	205-6106M	FO 14	205-6157M	HO 6
205-6017	GM 48	205-6107	FO 14	205-6158	HO 7
205-6017M	GM 48	205-6107M	FO 14	205-6158M	HO 7
205-6018	GM 48	205-6108	FO 17	205-616	GMT 26
205-6018M	GM 48	205-6108M	FO 17	205-616M	GMT 26
205-6019	GM 58, GMT 28	205-6110	FO 22	205-6160	HO 9
205-6019M	GM 58, GMT 28	205-6110M	FO 22	205-6160M	HO 9
205-602	CHR 22, 24, 27, DT 9, 11, 15	205-6111	FO 31	205-6161	HO 15
205-602M	CHR 22, 24, 27, DT 9, 11, 15	205-6111M	FO 31	205-6161M	HO 15
205-6020	GM 58, GMT 28	205-6112	FO 31	205-6163	HO 17
205-6020M	GM 58, GMT 28	205-6112M	FO 31	205-6163M	HO 17
205-6021	GM 58, GMT 28	205-6113	FO 31	205-6167	NI 12
205-6021M	GM 58, GMT 28	205-6113M	FO 31	205-617	AMC 13, 14, JEE 15
205-6023	GM 73	205-6114	FO 31	205-6173	NI 29, 32
205-6023M	GM 73	205-6114M	FO 31	205-6176	NIT 11
205-6024	GM 73, GMT 36	205-6115	FO 44	205-6176M	NIT 11
205-6024M	GM 73, GMT 36	205-6115M	FO 44	205-6177	TO 5
205-6025	GM 73	205-6116	FO 51, FOT 37	205-6177M	TO 5
205-6025M	GM 73	205-6116M	FO 51, FOT 37	205-6178	TO 6

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205-6179	TO 6	205-6323M	CHR 2	205-6779EM	TO 8
205-6180	TO 6	205-6324	CHR 2, MI 1	205-6784	NI 29
205-6180M	TO 6	205-6324M	CHR 2, MI 1	205-6784M	NI 29
205-6181	TO 18	205-6325	CHR 2, MI 1	205-6785	NIT 11
205-6182	TO 23, TOT 8, 9	205-6325M	CHR 2, MI 1	205-6785M	NIT 11
205-6182M	TO 23, TOT 8, 9	205-6328	CHR 12, 13, MI 9, 10	205-679	GM 121
205-6184	GM 31, GMT 13	205-6328M	CHR 12, 13, MI 9, 10	205-681	CHR 14, DT 3
205-6184M	GM 31, GMT 13	205-6335	DT 5, MI 11, MIT 3	205-681M	CHR 14, DT 3
205-6185	TO 27	205-6335M	DT 5, MI 11, MIT 3	205-6812	GMT 1, SZT 3
205-6186	FOT 3	205-6339	FO 32	205-6812M	GMT 1, SZT 3
205-6186M	FOT 3	205-6339M	FO 32	205-683A	CHR 51, DT 27
205-6187	DT 26	205-634	GM 86, JEE 17	205-683AM	CHR 51, DT 27
205-6187M	DT 26	205-634M	GM 86, JEE 17	205-6858	MZ 9
205-619	GM 66, GMT 32, ST 6	205-6345M	FOT 33	205-6858M	MZ 9
205-619M	GM 66, GMT 32, ST 6	205-6346	GM 1	205-686	GM 100, GMT 50
205-6205	CHR 14, 18, DT 6	205-6346M	GM 1	205-686M	GM 100, GMT 50
205-6205M	CHR 14, 18, DT 6	205-6347	GM 1, SZ 1	205-6861	FO 10, 11, MZ 14, 15
205-6206A	CHR 25, DT 12	205-6347M	GM 1, SZ 1	205-6861M	FO 10, 11, MZ 14, 15
205-6206AM	CHR 25, DT 12	205-6348	GM 1	205-6874	HO 16
205-621	GM 87	205-6348M	GM 1	205-6874M	HO 16
205-6212	FOT 11	205-6349	GM 1, 2	205-6875	IST 6
205-6212M	FOT 11	205-6349M	GM 1, 2	205-6875M	IST 6
205-6215	FOT 33	205-6350	GM 9, IS 4	205-6878	IS 10, IST 5
205-6216	FO 1	205-6352	GM 18	205-6878M	IS 10, IST 5
205-6216M	FO 1	205-6352M	GM 18	205-6880	MZT 5
205-6219	GM 26	205-6356	GM 65	205-6880M	MZT 5
205-6219M	GM 26	205-6356M	GM 65	205-6882	DT 10, MI 13, MIT 5
205-622A	CHR 51, DT 27	205-6361	NIT 8	205-6882M	DT 10, MI 13, MIT 5
205-622AM	CHR 51, DT 27	205-6362	NIT 8	205-6883	MZ 16, MZT 9
205-622M	CHR 51, DT 27	205-6365	TOT 12	205-6883M	MZ 16, MZT 9
205-624	FO 49, 50, 57, FOT 36, 42	205-6365M	TOT 12	205-6885	NI 23, NIT 9
205-624AM	FO 50, 57, FOT 36, 42	205-637	FO 63, 65, FOT 45, 47	205-6885M	NI 23, NIT 9
205-624M	FO 50, 57	205-637M	FO 63, 65, FOT 45, 47	205-6886	NI 23, NIT 9
205-625	FO 51	205-6375	CHR 9, MI 5	205-6886M	NI 23, NIT 9
205-625M	FO 51	205-6375M	CHR 9, MI 5	205-6890	NI 30
205-6257	GMT 49	205-640	GM 105, 116	205-6890M	NI 30
205-6257M	GMT 49	205-640M	GM 105	205-691	GM 47
205-6262M	FOT 10	205-6403	GMT 28	205-691M	GM 47
205-6265	GMT 34	205-6403M	GMT 28	205-6910	GM 10
205-6265M	GMT 34	205-6415	GM 47	205-6910M	GM 10
205-6266	GMT 34	205-6415M	GM 47	205-692	GM 44, GMT 18
205-6266M	GMT 34	205-642	CHR 55, DT 30	205-692M	GM 44, GMT 18
205-627A	FO 51, FOT 37	205-6420	HO 21	205-694	GM 54
205-627AM	FO 51, FOT 37	205-6420M	HO 21	205-695	GM 109
205-627M	FO 51, FOT 37	205-6423	HO 21	205-695M	GM 109
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205-6296M	GM 29, GMT 12, IST 7	205-656	DT 31	205-718AM	CHR 43, DT 24
205-6297	GM 29	205-656M	DT 31	205-718M	CHR 43, DT 24
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205-6320AM	IS 8, IST 2	205-6750AM	TO 20	205-745M	DT 8, MIT 4
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260-1459	GM 17	260-1770	GM 10	2770PN	FOT 43
260-1460	GM 21	260-1779	GM 7, TO 8	2771PN	FOT 46, IH 27
260-1462	GM 26	260-1784	NI 29	2786BF	FO 5, 6
260-1463	GM 26	260-1785	NIT 11	2789Y20	FO 5, 6
260-1464	GM 26	260-1788	HO 10	279P	GM 68, 83, OMC 7
260-1465	GM 30, 47	260-1795	NI 23, NIT 9	2800P	IH 2, 5
260-1466	GM 31, GMT 13	260-1797	NIT 8	285NCP 30	CHM 12, CHR 43, DT 24
260-1467	GM 38	260-1799	MZ 16, MZT 9	285NP	CHM 12, CHR 43, DT 24
260-1469	GM 47	260-1800	MZ 16	287P 30	GM 79
260-1470	GM 50	260-1802	TO 30	288P	GM 34, 97
260-1473	GM 50	260-1804	NI 30	2934Y	VW 1, 5, 6, VWT 1, 4, 5
260-1474	GM 65	260-1805	HO 8	295AP+	GM 75, GMT 38, OMC 9
260-1475	GM 65	260-1812	GMT 1, SZT 3	295P*	GM 75, GMT 38, OMC 9
260-1477	GM 74	260-1818	MZ 11	302NP	FO 19, FOT 8
260-1478	GM 88	260-1820	MZT 4	3045A	GM 54, 55, 74, 81, 91, 109, GMT 46, 53
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260-1481	GM 94	260-1846	SB 10	3049YA20	GM 74, 91
260-1482	GMT 8	260-1853	MZ 9	3049Y20	GM 90
260-1483	HO 4, 6, 7	260-1855	MZ 8	3055CP	FO 18, 20, 21, FOT 9, 10, 22, SAB 1, 2
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260-1486	HO 15	260-2501	CHR 14, 15, 18, 19, DT 3, 6, 7	310P+	GM 80
260-1488	HO 17	260-2502	GM 12, 13, 17, 18	311P	GM 33, GMT 14, ST 2
260-1490	NI 12	260-2503	FO 3, 4, 7	3-1140RA	GM 1, 2, SZ 1, 2
260-1495	NI 29, 32	260-2504	GM 26, GMT 8	3-1180CP	DAI 1
260-1498	NIT 11	260-2505	CHR 14, 15, DT 3	3150CPA	FO 35, FOT 20, 31
260-1499	TO 5	260-2506	GM 21	3190A	GM 85, 100, 108, 110, 115, 119, GMT 43, 50, 52, 54, MER 14-16
260-1500	TO 6	260-2507	GMT 49	32NP	CHM 7-9, CHR 29, 31, 33, DT 18, 20
260-1501	TO 6	260-2508	GM 30	3204DR	MER 7
260-1502	TO 18	260-2509	FO 21, FOT 10, 22	322NP 30	CHR 35, DT 22
260-1503	TO 23, TOT 8, 9	260-2510	FO 12, 13, FOT 5	3230CP	FO 47, 52, 56, 58, 59, 61, 62, FOT 35, 38, 39, 41, 44
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260-1506M	MER 2, OMC 2	260-2514	GM 30	3320CP	GM 103, 106, 107, 114, 118, 122
260-1508M	MER 6, OMC 4	260-2515	FO 22, FOT 11	3345P	GM 94, 96, 99, 101, 102, 112, 113, 120, 123, 124, GMT 55
260-1509M	MER 7, OMC 5	260-2516	CHR 23, DT 10, MI 13, MIT 5	336P	FO 51
260-1510M	MER 8, 11, OMC 6, 9	260-2518	GM 26	3360CPA	FO 63, 65, FOT 45, 47
260-1516M	MER 12, OMC 10, VOM 2	260-2519	FO 31, 32	3380A	FO 51, FOT 37, MER 13, OMC 11
260-1517M	MER 12, OMC 10, VOM 2	260-2520	CHR 25, DT 12	3380CPA	FO 51, FOT 37, MER 13, OMC 11
260-1518M	MER 14, 15	260-2523	GM 1, 2, SZ 1, 2	340P 30	GM 86
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260-1549	CHR 15, 19, DT 7	260-2531	GM 29, 31	350NP 30	CHR 58
260-1556	FOT 11	260-2533	GM 38, 47	350P 30+	CHR 58
260-1559	FOT 33	260-2534	GM 29, 31, 32	351NP	GM 123
260-1560	FO 1	260-2535	GM 1, 2	352AP 30*	FO 35, FOT 20, 31
260-1563	GM 26	260-4001	GM 54, 74, 91, 109, GMT 53	352NP	FO 35, FOT 20, 31
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260-1569	GM 49, GMT 21	260-4005	FO 65, FOT 47	3545A	FO 12, 13, FOT 3, 5
260-1571	CHR 43, 45, DT 24	260-4006	GM 35, 47, 48, GMT 20	3567AF	FOT 1, 2, MZ 4, 10, MZT 1-3
260-1605	NIT 8	260-4008	AMC 13, 14, 16, 18-20, IH 26, JEE 15, 18, 19	3569Y	FOT 1, 2, MZ 4, 10, MZT 1-3
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260-1616	CHR 14, 18, DT 6	260-4010	GM 81, 91	3571BF	GM 14, GMT 2, 3, IS 6-10, IST 1, 2, 5, 6, OP 3
260-1617	GM 90, GMT 46	260-4011	CHR 49, 52, 53, 55, DT 29, 30	362NCP 30	AMC 18, JEE 18
260-1619	GMT 49	260-4012	GM 86, JEE 17	362NP	AMC 18, JEE 18
260-1637	GM 1, SZ 1	260-4013	GM 103, 118, 122	366NP	CHR 53, DT 29
260-1638	GM 9, IS 4	260-4014	GM 30, 47, 48, 53, GMT 20	3665P	GM 3, 11
260-1640	GM 1, 2	260-4015	GM 94	368P	GM 118
260-1643	GM 18	260-4017	GM 74	369P	GM 120
260-1646	CHR 25, DT 12	260-4018	GM 30	3695RA	CHM 5, CHR 27, DT 15
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260-1672	FOT 43	260-4021	GM 101, 102, 113, 120	3750P	GM 37, 44, GMT 15, 18, MER 4
260-1673	FOT 46, IH 27	260-4023	GM 122	3755A	GM 30, 35, 38, 47, 48, 53, GMT 20
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260-1703	CHR 9, MI 5	260-4028	GM 29, 31, 32	3800CPA	CHR 14-16, 18, 19, DT 3, 6, 7
260-1704	CHR 4, 5, 12, 13, MI 2, 3, 9, 10	260-4029	FOT 43, 46, IH 27	3805A	FO 3, 4, 7
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381P+	FO 56, 59, FOT 41	381-8051	CHR 20, 21, DT 8	403CP 30	GM 51, GMT 26, MER 6, OMC 4
3810CP	FOT 43, 46, IH 27	381-8053	FO 31, 32, FOT 17	403P	GM 51, GMT 26, MER 6, OMC 4
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381-4012*	GM 29, GMT 12, IST 7, JEE 7	381-8058	GM 58, GMT 28	405P	CHM 15, CHR 51, DT 27
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381-4021	FO 63-66, FOT 45, 47	381-8065	HO 9-12, 15, 17-19	4092M	CHM 2, 5, CHR 22, 24, 27, DT 9, 11, 15
381-4022*	FO 12, 13, FOT 3, 5	381-8067	MZ 10, MZT 3	4093M 10	IH 8, 11, 16
381-4023*	GM 30, 35, 47, 48, 53, GMT 20	381-8068	NI 8, 9, 12	4094M	CHM 16-18, CHR 49, 52, 53, 55, DT 29, 30
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381-4036*	NI 10, 15	381-8072	FO 22, FOT 11	4-1035CP	FO 14, 17
381-8000	AMC 6, 8, 9, 11, IH 9, 14, JEE 11, 12, 14	381-8073	GM 30, 47, 48	4-1060CP	TOT 13
381-8001	AMC 13, 14, 16, 18-20, JEE 15, 18, 19	381-8074	GM 26, GMT 8	411NP	GM 105
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381-8004	GM 94, 112, 117, 123, 124	381-8085	GM 31, 32, GMT 13	412P	GM 115
381-8006	GM 27, 33, 45, 46, 51, 52, GMT 14, 19, 26, 34, 35, MER 1, 2, 6, OMC 1, 2, 4	381-8086	AMC 3, CHR 17, JEE 5	4123MA	GM 27, GMT 9, MER 1, 2, OMC 1, 2
381-8007	GM 57, 63, 64, 66, 71, 73, 75, 80, 88, GMT 30, 32, 36, 38, 40, 44, 45, MER 8, 12, OMC 6, 9, 10, ST 6, VOM 2	381-8087	GM 17, 18	4124MA	GM 33, 41, 45, 46, 51, 52, GMT 14, 19, 26, 34, MER 5, 6, OMC 4, ST 2
381-8008	GM 104, GMT 51	381-8090	CHR 23, DT 10, MI 13, MIT 5	4-1245CP	NI 14, 16, 17, 20
381-8009	GM 100, 108, 115, 119, GMT 48, 50, 52, 54, MER 14-16	381-8091	TO 18-20	4125M	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8
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381-8011	CHM 16-18, 21, CHR 52, 53, 55-58, DT 29-31	381-8093	NI 19, 22, 23, NIT 7-9	4-1280CP	NIT 12
381-8012	CHM 5, CHR 22, 24, 27, DT 9, 11, 15	381-8094	NI 13, 20	413AP*	FO 63, FOT 45
381-8013	FO 15, 16, 19, 24, 36, FOT 7, 8, 12, 23	381-8095*	CHR 2, GM 4, 5, IS 1, 2, MI 1	413NP+	FO 63, FOT 45
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381-8015	FO 27, 37, 40, 42, 44, 51, FOT 24, 29, 33, 37, MER 9, 13, OMC 8, 11	381-8097	TO 24, 28, 29, TOT 12	4-1305RA	PEU 4, 5
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381-8045	AMC 4, GM 26, GMT 8, JEE 6	3926AF	GM 6, 7, TO 4, 6-8	4-2380CP	FO 14
381-8046	GM 29, GMT 12, JEE 7	3952BF	GMT 22, 23, IST 8, 9	424NP	CHR 58, DT 31
381-8047	GM 109	3956BF	TO 24, TOT 12	424P	CHR 58, DT 31
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4-3055CP 10	SAB 1, 2	4-66675P	CHR 10, 20, 21, DT 1, 4, 8, FOT 6, MI 12, MIT 2, 4, MZT 7	505-1026C	GM 73
433NP	FO 20, FOT 9	4-66755CP	SZT 1	505-1026E	GM 73, GMT 36
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4-3800CPA	CHR 14-16, 18, 19, DT 3, 6, 7	4-67284Y	MIT 6	505-106C	GMT 34
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4-3895RA	TO 17-19	4-67309Y	FO 9, MZ 12	505-108A	FO 24
4-3899Y	TO 18-20	4-67314Y	GM 14, IS 7	505-108D	GM 24
4-3910RA	FO 1, MZ 2, 3	4-67320CP	NI 1, 3, 4, 6, 7	505-1086C	GMT 54
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4-3930RA	TOT 11	4-68150CP	AUD 2, 3, 6, VW 7, 8, 12, 13, VWT 6	505-1093C	CHR 18, DT 6
4-3955RA	CHR 1, 2, MI 1	4-68304Y	DT 4, FOT 6, MIT 2	505-1097A	CHR 18, DT 6
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4-3980RA	TOT 4, 7	472P+	GM 74	505-1106A	FO 14
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4-4000CP	GMT 5, IST 3, 4, JEE 4	474P 1.00MM	GM 11	505-1110B	FO 22
4-4005P	FOT 1, 2, MZ 10, MZT 2, 3	475NP	GM 37, GMT 15	505-1111A	FO 31
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4418M	GM 83, 86, JEE 17	4775A	SB 10, 11	505-1112B+	FO 31
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4419M	GM 98, 117	4786F	TO 30	505-1113B	FO 31
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4-4205CP	GMT 24	4865M	FO 6	505-1114C	FO 31
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4-4245CP	NI 2, 5, NIT 1	489P	FO 14	505-1116A	FO 51, FOT 37
4-4335CP	VOL 5-7	490P .50MM	FO 31	505-112C	FOT 20
4-4450P	TO 20	4906MA	GM 94, 112, 123, 124	505-112D	FOT 20
4-4455RA	GM 8, 9, IS 3-5	4907M	FO 63, 65, FOT 45, 47	505-112E	FOT 31
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4-4465P	AUD 7, VW 12, 14, 16	4916M	FO 35, 36, FOT 20, 23, 31	505-1121A	FOT 33
4-4470P	HO 11, 12	4923MA	CHM 11, 14, CHR 35, 37, 39-41, 43, 45, 47, DT 22	505-1121C	FOT 33
4-4475RA	CHR 2, MI 1	4924MA	CHM 19-21, CHR 53, 56-58, DT 31	505-1123A	FOT 47
4456F	GM 8, 9, IS 3-5	4925M	FO 49	505-1124A	FOT 47
4-4560P	MB 2	4926MA	GM 104, GMT 51	505-113C	GM 119, GMT 54
4-4595P	IST 6	4940P	NI 33	505-113E	GM 119, GMT 54
4464Y	NI 23, NIT 9	4941F	NI 33	505-1131A	GM 20
4469Y	AUD 6, VW 12, 16	4948MA	CHM 15, CHR 51, DT 27	505-1134A	GM 26
4481F	HO 22	495P	FO 12, FOT 5	505-1135A	GM 26
450NP	GM 47, GMT 20	4950M 10	AMC 19, 20, IH 26, JEE 19	505-1136A	GM 26
451P	FO 50, FOT 36	4979M	FO 12, 13, FOT 3, 5	505-114A	GM 51, GMT 26
454NP	GM 73, GMT 36, MER 10, VOM 1	4-9955SB	JEE 2, 3	505-114C	GM 51, GMT 26
456NP*	AMC 9, 11, JEE 12, 14	4999MA	CHM 15, CHR 51, DT 27	505-114E	GMT 26
456P	AMC 9, 11, JEE 12, 14	502NP*	GM 50	505-114F	GMT 26
4561F	MB 2, 4-8, 12	502P+	GM 50	505-114G	GM 51, GMT 26
457P 30	GM 26	5024MA	CHM 12, CHR 43, DT 24	505-114H	GMT 26
4575P	SB 2	5025MA	CHM 19, 21, CHR 58, DT 31	505-1148A	GM 74
460P	GM 100, GMT 50	5027M	FOT 1, 2, MZ 4, 10, MZT 1-3	505-1148D	GM 74
4600P	GM 7, TO 8	5028M	GMT 2, 3, IS 6, 8, IST 1, 2, OP 3	505-115A	GM 51, GMT 26
4604Y	TO 8	5035M 10	FO 8	505-115E	GMT 26
4-60985RA 10	FIA 1-4, YU 1, 2	5037M	AMC 13, 14, 16, 18, 19, JEE 15, 18	505-1151A	GM 88
463P	FO 51, FOT 37, MER 13, OMC 11	505-1002A	FOT 33	505-1153A	GM 88
464CP	GM 29, GMT 12, IST 7, JEE 7	505-1003A	FOT 47	505-1155A	GMT 8
464P	GM 29, GMT 12, IST 7, JEE 7	505-1007A	GM 26, GMT 8	505-1156A	GMT 44
465AP*	AMC 4, GM 26, JEE 6	505-1008A	GM 26	505-1156C	GMT 44
465NP	AMC 4, GM 26, JEE 6	505-1009A	GM 27	505-1156D	GMT 44
4-65545CP	BMW 1-5	505-1010A	GM 27	505-116A	GMT 26
4659M 10	FIA 1-4, 8, YU 1, 2	505-1011A	GM 29, GMT 12	505-118A	GM 104
466NP	GM 109	505-1011C	GMT 12	505-1183A	GM 31
466P+	GM 109	505-1012A	GM 29	505-1184A	GMT 13
4-66240RA	FIA 7, 9, 10	505-1015E	GM 47	505-1184B	GM 31
4663M	GM 57, 64, 71, 73, 75, 80, 88, GMT 30, 36, 38, 40, 44, 45, MER 10-12, OMC 9, 10, VOM 1, 2	505-1019A	GM 58	505-1186A	FOT 3
4663MA	GM 57, 64, 71, 73, 75, 80, 88, GMT 30, 36, 38, 40, 44, 45, MER 10-12, OMC 9, 10, VOM 1, 2	505-102A	CHR 22, 24, 27, DT 9, 11, 15	505-119A	GM 66, GMT 32
		505-1020A	GM 58	505-119C	GM 66, GMT 32
		505-1021A	GM 58	505-119D	GM 66, GMT 32, ST 6
		505-1023A	GM 73	505-119E	GM 66
		505-1024C	GM 73	505-119F	GM 66, GMT 32
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505-1205B	CHR 18, DT 6	505-218A	CHR 43, DT 24	505-6098A	DT 19
505-1212A	FOT 11	505-218D	CHR 43, DT 24	505-6098C	DT 19
505-1215A	FOT 33	505-218H	CHR 43, DT 24	505-6099C	DT 19
505-1217A	CHR 14	505-218J	CHR 43	505-6103C	FO 7
505-122C	DT 27	505-218K	CHR 43	505-6105A	FO 12
505-124G	FO 50	505-218L	CHR 43, DT 24	505-6106A	FO 14
505-124J	FOT 36	505-224A	GM 47	505-6107A	FO 14
505-124M	FO 57	505-227C	JEE 7	505-6110A	FO 22
505-124P	FO 57, FOT 42	505-228C	JEE 7	505-6111A	FO 31
505-125A	FO 51	505-228E	GM 29, GMT 12	505-6111C	FO 31
505-125C	FO 51	505-228G	GM 29	505-6112B+	FO 31
505-125D	FO 51	505-239A	GMT 26	505-6112C	FO 31
505-1250A	FOT 33	505-239C	GMT 26	505-6113B	FO 31
505-1251A	FOT 33	505-239D	GMT 26	505-6113C	FO 31
505-1251C	FOT 33	505-243A	CHR 43, DT 24	505-6114B+	FO 31
505-1253A	FOT 33	505-244C	DT 24	505-6114C	FO 31
505-1263A	FOT 22	505-252A	FO 12, FOT 5	505-6115A	FO 44
505-1264A	FOT 22	505-257A	FO 31, FOT 17	505-6116A	FO 51, FOT 37
505-127A	FO 51, FOT 37	505-258A	FO 31	505-612C	FOT 20
505-127C	FO 51, FOT 37	505-260A	FO 44, FOT 33	505-612D	FOT 20
505-127D	FO 51	505-261A	FO 51, FOT 37	505-612E	FOT 31
505-130A	GM 80	505-261C	FO 51, FOT 37	505-6120A	FOT 11
505-130C	GM 88, GMT 44	505-261D	FO 51, FOT 37	505-6121A	FOT 33
505-130D	GM 88, GMT 44	505-263A	FOT 5	505-6121C	FOT 33
505-130E	GMT 40	505-265C	FOT 31	505-6123A	FOT 47
505-130F	GMT 44	505-267A	FOT 47	505-6124A	FOT 47
505-132G	CHR 58	505-268A	FOT 47	505-613C	GM 119, GMT 54
505-1329A	CHR 23, DT 10	505-274A	FOT 37	505-613E	GM 119, GMT 54
505-133A	GM 74	505-274C	FOT 37	505-6131A	GM 20
505-134A	GM 86	505-358A	AMC 3, JEE 5	505-6132C	GM 21
505-134C	GM 86	505-359A	CHR 17, JEE 5	505-6134A	GM 26
505-137A	FO 63, FOT 45	505-360A	JEE 14	505-6135A	GM 26
505-137C	FO 63	505-369C	CHR 14, DT 3	505-6136A	GM 26
505-137D	FO 65	505-383A	FO 14	505-614A	GM 51, GMT 26
505-137E	FO 65, FOT 47	505-386A	FO 31	505-614C	GM 51, GMT 26
505-1373A	GM 26	505-388A	FO 44	505-614D	GM 45, GMT 19
505-1374A	GM 26	505-391A	FOT 3	505-614E	GMT 26
505-1377	DT 24	505-396A	FOT 5	505-614F	GMT 26
505-138A	GM 91	505-398C	FOT 10	505-614G	GM 51, GMT 26
505-139C	GM 91	505-6002A	FOT 33	505-614H	GMT 26
505-140C	GM 105	505-6003A	FOT 47	505-6140A	GM 38
505-140E	GM 105	505-6004A	FOT 43	505-6141A	GM 47
505-146A	FO 12, FOT 5	505-6006A	GM 16	505-6141E	GM 47
505-147A	GMT 36	505-6007A	GM 26, GMT 8	505-6148A	GM 74
505-148A	GM 73, GMT 36	505-6008A	GM 26	505-6148D	GM 74
505-148D	GM 73	505-6009A	GM 27	505-615A	GM 51, GMT 26
505-150E	GM 47, GMT 20	505-6010A	GM 27	505-615E	GMT 26
505-153A	FO 42	505-6011A	GM 29, GMT 12	505-6151A	GM 88
505-153D	FO 42, 44, FOT 33	505-6012A	GM 29	505-6153A	GM 88
505-153F	FO 44, FOT 33	505-6015E	GM 47	505-6155A	GMT 8
505-153G	FO 44	505-6019A	GM 58	505-6156A	GMT 44
505-153H	FO 44, FOT 33	505-602A	CHR 22, 24, 27, DT 9, 11, 15	505-6156C	GMT 44
505-153J	FO 42	505-6020A	GM 58	505-6156D	GMT 44
505-153L	FO 42	505-6021A	GM 58	505-616A	GMT 26
505-158A	GM 88, GMT 44	505-6023A	GM 73	505-618A	GM 104, GMT 51
505-158C	GMT 44	505-6024C	GM 73	505-618C	GMT 51
505-160A	GMT 54	505-6024D	GM 73	505-6183A	GM 31
505-161A	GM 108, GMT 52	505-6026A	GM 73	505-6184A	GMT 13
505-162A	GM 80	505-6026C	GM 73	505-6184B	GMT 13
505-162C	GM 80	505-6026E	GM 73, GMT 36	505-6184C	GM 31
505-162E	GM 80	505-6027A	GM 73	505-6186A	FOT 3
505-162F	GM 80	505-6027C	GM 73	505-619A	GM 66, GMT 32
505-183C	CHR 51, DT 27	505-603C	CHR 27, DT 15	505-619C	GM 66, GMT 32
505-186A	GM 100	505-6036A	GMT 34	505-619D	GM 66, GMT 32, ST 6
505-186C	GM 100, GMT 50	505-6037A	GMT 44	505-619E	GM 66
505-192A	GM 44, GMT 18	505-6037C	GMT 44	505-619F	GM 66, GMT 32
505-195A	GM 109	505-604A	CHR 27, DT 15	505-619G	GM 66
505-199A	GMT 12, JEE 7	505-606A	GMT 34	505-620A	GM 75, GMT 38
505-199C	GM 29	505-606C	GMT 34	505-6205B	CHR 18, DT 6
505-2000*	GM 31	505-607A	GMT 34	505-6205C	CHR 14
505-2001*	GM 31	505-608A	FO 24, FOT 12	505-6206A	CHR 25, DT 12
505-2002*	GM 31	505-608D	FO 24	505-6212A	FOT 11
505-2012*	GMT 28	505-6084A	GMT 49	505-6215A	FOT 33
505-2032*	FO 14	505-6086C	GMT 54	505-6217A	CHR 14
505-2033*	FOT 11	505-6087A	FOT 31	505-622C	DT 27
505-2050*	CHR 17, JEE 5	505-6091A	FOT 46, IH 27	505-6222A	GM 47
505-2053*	JEE 13	505-6092A	JEE 13	505-624G	FO 50
505-2058*	CHR 14	505-6093A	CHR 14	505-624J	FOT 36
505-2059*	CHR 18, DT 6	505-6093C	CHR 18, DT 6	505-624M	FO 57
505-213A	CHR 47	505-6094A	CHR 19, DT 7	505-624P	FO 57, FOT 42
505-215A	JEE 18	505-6094C	CHR 15	505-625A	FO 51

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505-6250A	FOT 33	505-718C	CHR 43, DT 24	534NP	GM 73
505-6251A	FOT 33	505-718H	CHR 43, DT 24	536NCP 20	GM 73, GMT 36, MER 10
505-6251C	FOT 33	505-718J	CHR 43	536NP	GM 73, GMT 36, MER 10
505-6253A	FOT 33	505-718K	CHR 43	540P 1.00MM	GM 16
505-6257A	GMT 49	505-718L	CHR 43, DT 24	541P	FO 2, MZ 5
505-6263A	FOT 22	505-724A	GM 47	5412X	GMT 27
505-6264A	FOT 22	505-727C	JEE 7	545CP .75MM	GM 29
505-627A	FO 51, FOT 37	505-728C	JEE 7	545P	GM 29
505-627C	FO 51, FOT 37	505-728E	GM 29, GMT 12	546P	FO 1
505-627D	FO 51	505-728G	GM 29	550P	GM 88
505-630A	GM 80	505-739A	GMT 26	5576KX	IH 16
505-630C	GM 88, GMT 44	505-739C	GMT 26	558M	JEE 2, 3
505-630D	GM 88, GMT 44	505-739D	GMT 26	5-61980RA	MB 9-11
505-630E	GMT 40	505-743A	CHR 43, DT 24	5659KX	GMT 37
505-630F	GMT 44	505-744C	DT 24	5-68095CP	AUD 10, 11, VW 17
505-632G	CHR 58	505-746C	CHR 20	569P	GM 20
505-6329A	CHR 23, DT 10	505-752A	FO 12, FOT 5	571CP	CHR 18, DT 6
505-633A	GM 74	505-753A	FO 12	572P	GM 65
505-6339B	FO 32	505-757A	FO 31, FOT 17	573P	GM 65
505-634A	GM 86	505-758A	FO 31	574CP	CHR 25, DT 12
505-634C	GM 86	505-760A	FO 44, FOT 33	584P	GM 9
505-6369	DT 19	505-761A	FO 51, FOT 37	592P .75MM	GMT 3, IS 8, IST 2
505-637A	FO 63, FOT 45	505-761C	FO 51, FOT 37	599P 40	GM 51
505-637C	FO 63	505-761D	FO 51, FOT 37	6KH497P .50MM	FO 22, FOT 11
505-637D	FO 65	505-763A	FOT 5	6KH519P 30	FOT 31
505-637E	FO 65, FOT 47	505-765C	FOT 31	6KH523CP .50MM	FO 31
505-637F	FOT 47	505-768A	FOT 47	6KH570P .50MM	FOT 22
505-6373A	GM 26	505-774A	FOT 37	6KH834CP	CHR 23, DT 10, MI 13, MIT 5
505-6374A	GM 26	505-774C	FOT 37	6K13588CP	MZ 16, MZT 9
505-6377	DT 24	505-858A	AMC 3, JEE 5	6K13601P	NI 30
505-6379*	GMT 13	505-859A	CHR 17, JEE 5	6K450NP 30	GM 47, GMT 20
505-6382A	GM 47	505-860A	JEE 14	6K464CP .75MM	GM 29, GMT 12, IST 7, JEE 7
505-639C	GM 91	505-868C	CHR 15	6K470NP 30	AMC 11, JEE 14
505-640E	GM 105	505-869C	CHR 14, DT 3	6K520P .75MM	FO 21, FOT 10
505-646A	FO 12, FOT 5	505-878A	FO 12	6K640P 30	GM 58, GMT 28, MER 7
505-647A	GMT 36	505-878C	FO 12	6XH519P 20	FOT 31
505-648A	GM 73, GMT 36	505-879A	FO 13	6X640P 30	GM 58, GMT 28, MER 7
505-648D	GM 73	505-879C	FO 13	60476BF	AMC 1, REN 1-5
505-650E	GM 47, GMT 20	505-880A	FO 13	609P	GM 124
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505-653F	FO 44, FOT 33	505-888A	FO 44	6-1020A	GM 58, GMT 28, MER 7
505-653G	FO 44	505-891A	FOT 3	6-1020A 25X2	GM 58, GMT 28
505-653H	FO 44, FOT 33	505-896A	FOT 5	6-1020CP	GM 58, GMT 28, MER 7
505-653J	FO 42	505-898C	FOT 10	611P	GM 73, GMT 36
505-653L	FO 42	506P	FO 44	6111M	CHM 1, VOL 1-5
505-658A	GM 88, GMT 44	5060M	GM 3, 11	6-1165CP	TO 27-29
505-658C	GMT 44	5070M	CHM 5, CHR 27, DT 15	6-1220RA	FO 22, FOT 11
505-660A	GMT 54	5071M	FO 24	6-13519P	TOT 12
505-661A	GM 108, GMT 52	5078M	FO 50, 51, 57, FOT 36, 37, 42, OMC 11	6-1390CP	BMW 6, 7
505-662A	GM 80	5078MA	FO 50, 51, 57, FOT 36, 37, 42, OMC 11	6-1460A	DT 19
505-662C	GM 80	5083M	FO 5	6-1500CP	TOT 16
505-662E	GM 80	5085M	GM 37, 44, 58, GMT 15, 18, 28, MER 4, 7	6-1575CPA	IH 8, 11, 16
505-662F	GM 80	5085MA	GM 37, 44, 58, GMT 15, 18, 28, MER 7	6-1735CP	CHR 23, DT 10, MI 13, MIT 5
505-683C	CHR 51, DT 27	5090MA	GM 29, GMT 12, JEE 7	6-1845CP	NI 29, 32, NIT 11
505-686A	GM 100	5092M	GM 62, 69, 70	61904BF	PEU 6
505-686C	GM 100, GMT 50	5095MA	CHM 12, CHR 43, DT 24	6-1920RA	CHR 25, DT 12
505-692A	GM 44, GMT 18	5103M	CHR 4-7, 9, 11-13, DT 2, 5, MI 2-11, MIT 1, 3	6-1950CA 60	GM 49, 56, GMT 21, 27
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505-699A	GMT 12, JEE 7	5109MA	FO 3, 4	6-1970RA	MZ 16, 17, MZT 9
505-699C	GM 29	5110M	FOT 43, 46, IH 27	6-2020CA 60	GM 33, 41, 45, 46, 51, 52, GMT 14, 19, 26, MER 5, 6, OMC 4, ST 2
505-7000*	GM 31	5130M	FO 14, 17	6-2020CP	GM 33, 41, 45, 46, 51, 52, GMT 14, 19, 26, MER 5, 6, OMC 4, ST 2
505-7001*	GM 31	5138MA	GM 16, GMT 4	62037AF	FIA 7, 9, 10
505-7002*	GM 31	5141X 30	JEE 9	6-2375CP	CHM 2, 5, CHR 22, 24, 27, DT 9, 11, 15
505-7003*	GM 31	5155X	FO 39, 41, FOT 26, 28, IH 17	6-2380CP	FO 15, 19, 24, 36, FOT 7, 8, 12, 23
505-7012*	GMT 28	516CP .50MM	GM 29, GMT 12, JEE 7	6-2385CP	GM 22, 24, 28, GMT 7, 11
505-7021*	GMT 36	516P	GM 29, GMT 12, JEE 7	6-2500RAA	GM 36, 43, 47, JEE 8, OMC 3
505-7028*	GMT 54	517CP	FOT 33	6-2555A	GMT 34
505-7032*	FO 14	520P	FO 21, FOT 10	6-2555CA 60	GMT 34
505-7033*	FOT 11	525CP	AMC 3, CHR 17, JEE 5	6-2555CP	GMT 34
505-7044*	FO 44	525P	AMC 3, CHR 17, JEE 5	6-3055CP	FO 18, 20, 21, FOT 9, 10, 22
505-7050*	CHR 17, JEE 5	526P	CHR 43, DT 24	6-3055CP 10X2	FO 18, 20, 21, FOT 9, 10, 22
505-7053*	JEE 13	527P	CHR 14, DT 3	6-3150CAA 60	FO 35, FOT 20, 31
505-7057*	CHR 14	531CP 1.00MM	GM 29	6-3150CPA	FO 35, FOT 20, 31
505-7058*	CHR 14	531P	GM 29	6-3150CPA 10X2	FO 35, FOT 20, 31
505-7059*	CHR 18, DT 6			6-3310CPA	AMC 8, 9, 11, IH 9, 14, JEE 12-14
505-7060*	CHR 18, DT 6			6354M	PEU 6
505-7062	DT 24			636P	MZT 5
505-713A	CHR 47				
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6-3750P	GM 37, 44, GMT 15, 18, MER 4	6786M	TO 9, 10	7261M	TOT 12
6-3755A	GM 30, 35, 38, 47, 48, 53, GMT 20	6792M .25MM	HO 1-3	7269MA 10	FO 20, 21, FOT 9, 10
6-3755AP 10X2	GM 30, 35, 38, 47, 48, 53, GMT 20	6793M	HO 5, 6, 13, 14	7273M	GMT 54, MER 15, 16
6-3755A 10X2	GM 30, 35, 38, 47, 48, 53, GMT 20	6796M	SB 6-9, SBT 2	7274MA 10X20	GM 73, 88, GMT 36, 44, MER 10, 12, OMC 10, VOM 1, 2
6-3760A	GM 38, 47	6798MA	TO 11	7278MA	CHR 25, DT 12
6-3760A 10X2	GM 38, 47	6799M	TO 4, 7	7284M	GM 8, 9, IS 3-5
6-3830A .026MM*	FO 31, FOT 17	68099YA	AUD 1, 4, 5, CHR 8, VW 3, 4, 9, 11, VWT 3, 7, 9	7285M	NI 23, NIT 9
6-3830CPA	FO 31, 32, FOT 17	68150CP	AUD 10-16, VW 17, 18	7286M	AUD 7, VW 2, 12, 16
6-3830CPA 25X2	FO 31, 32, FOT 17	6834M	AUD 1-6, CHR 8, VW 3, 4, 7-9, 11-13, VWT 3, 6, 7, 9	7291MA	FOT 5
6-3965CP	TO 22, 25-27	69P 30	GM 107	7295MA	FO 31, FOT 17
6-3969Y	TO 22, 25-29	6-9185CP	CHM 4, 6, CHR 26, 28, DT 13, 17	7311M	BMW 11
640P	GM 58, GMT 28, MER 7	697M	GMT 17, 25, 31	7314M	MB 6-8, 12
6-4010RA	TO 24	698P 30	GM 44, GMT 18, MER 4	7320M	IST 6
6-4020A	GM 29, 31, 32, GMT 12, 13, IST 7, JEE 7	7011MA	FO 22, FOT 11	7322M	NI 30, 31
6-4020A 25X2	GM 29, 31, 32, GMT 12, 13, IST 7, JEE 7	7012M	NI 14, 16, 17, 20	7324M	HO 16
6-4205CP	DT 26	7027M	BMW 6, 7	7329MA 10	GM 57, 64, 71, 73, 75, 80, 88, GMT 30, 36, 38, 40, 44, 45, MER 10-12, OMC 10, VOM 1, 2
6-4385RA	TOT 12	7035M	HO 15, 17	7349M	VOL 5, 7
6445M	FIA 7, 9, 10	7038M	TOT 16, 17	7350M	SB 2
6-4480P	HO 22	7041M	HO 4, 7, 8	7362M	SB 10, 11
645M 10	FOT 16	7046MA	GM 50, 65	7366M	TO 30
645P	GM 58, GMT 28	7047MA	GM 16, 20	7368M .50MM	FO 31, FOT 17
6-4560P	MB 6, 7	7050MA	DT 19	7370M	GMT 49
6-4580P	MB 8, 12	7054MA	GM 21	7380MA 10X20	GM 58, GMT 28, MER 7
646M	FO 34, 38, FOT 19, 25	7071M	NIT 6, 10	7381MA 10X20	CHM 12, CHR 43, DT 24
6-4605P	NI 30, 31	7081M	MIT 6	7407M	MZ 16, 17, MZT 9
648M	GM 42, 49, GMT 16, 21	7086MA	FO 32	7414M	NI 33
6-4915P	MZ 16, 17, MZT 9	7090M	CHR 23, DT 10, MI 13, MIT 5	7420MA 10X20	DT 19
65077BF	BL 10	7094M	GMT 5, IST 3, 4	7427MA 40	GM 39, 40, ROV 2, SM 5
656P	DT 19	7095M	SZ 3, 4, SZT 2	7430MA 40	GM 94, 112, 123, 124
657P 30	GM 86, JEE 17	7099M	NI 29, 32, NIT 11	8KH273CP 30	FO 42, 44
6593M	CHR 10, DT 4, FOT 6, MIT 2	71P 20	GM 39	8KH345NCP 30	GM 88, MER 12, VOM 2
65931AF	BL 8, SM 1-4	7102M	HO 11, 12, 18-20	8KH345NP 30	GM 88, MER 12, VOM 2
6618M	CHR 10, 20, 21, DT 1, 8, MI 12, MIT 4, MZT 7	7103M	HO 21	8KH418CP 30	FO 65, FOT 47
6620MA	TOT 5, 10, 11	7105M	TOT 14	8KH418P 20	FO 65, FOT 47
6621MA	TOT 5, 10, 11	7108M	GM 12, 13, 17, 18	8KH423NCP 30	GM 88, GMT 44, MER 12
6622MA	TO 17-20	7109M	DAI 1	8KH423NP	GM 88, GMT 44, MER 12
6630M	CHR 1, 2, MI 1	7111MA	TO 12, 16	8KH518CP 30	GM 119, GMT 54
6631M	IS 8-10, IST 2, 5	7114MA	TO 24	8KH534CP 30	GM 73
6644M	FOT 4, MZT 6	7116MA	TO 5	8KH580CP 30	OMC 10
6645MA	FO 9, MZ 12	7122MA 10	GM 100, 108, 115, 119, GMT 50, 52, 54, MER 14-16	8KH582CP 30	FOT 47
6650MA	TOT 4, 7	7135M	NI 1, 3, 4, 6, 7	8KH618CP 30	GM 88, GMT 44
6660M	SZT 1	7136M	NI 24-28	8KH654CP 30	FO 44, FOT 33
66662AF	MB 1, 9-11	7137M	NI 10, 15, NIT 2, 3	8KH661CP 30	GM 119, GMT 54, MER 15
66676BF	DAI 1	7138M	NI 21	8KL2256F 30	GM 88, GMT 44, MER 12, VOM 2
6-67035P	TOT 15, 17	7139M	NI 18, 19, 22, NIT 4, 5, 7, 8	8KL2482F 30	FO 42, 44, FOT 29, 33
6-67230CP	NI 24-28	7142M	TO 21, 23, TOT 6, 8	8K272AP 20	FO 42, 44, FOT 29, 33, MER 9, OMC 8
6-67260CP	IH 6	7144MA	GM 30, 35, 38, 43, 47, 48, 53, GMT 20, JEE 8, OMC 3	8K273AP 20	FO 42, 44, FOT 29, 33
6-67264Y	IH 6	7145M	TOT 15, 17	8K285NCP 30	CHM 12, CHR 43, DT 24
66756BF	SZT 1	7148M	TO 23, TOT 8, 9	8K285NP 20	CHM 12, CHR 43, DT 24
6676M	AMC 3, CHR 17, JEE 5	7150MA 10	GM 30, 35, 43, 47, 48, 53, GMT 20, JEE 8, OMC 3	8K400AP 30	GM 104, GMT 51
6678MA	CHR 14-16, 18, 19, DT 3, 6, 7	7151M 10	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8	8K405CP 30	CHM 15, CHR 51, DT 27
6680MA	GM 6, 7, TO 4, 6-8	7153M 10	FO 35, 36, FOT 20, 23, 31	8K405P 30	CHM 15, CHR 51, DT 27
6685M	GM 1, 2, SZ 1, 2	7154M 10	FO 50, 51, 57, FOT 36, 37, 42, OMC 11	8K427P 30	FO 57, FOT 42
6686MA	GM 4, 5, IS 1, 2	7194M	GMT 22, 23, IST 8, 9	8K454NP 30	GM 73, GMT 36, MER 10, VOM 1
6687M 10	GM 37, 44, 58, GMT 15, 18, 28, MER 4, 7	7204M	FO 1, 2, MZ 5-9	8K463P 30	FO 51, FOT 37, MER 13, OMC 11
6688M 10	GM 57, 64, 71, 73, 75, 80, 88, GMT 30, 36, 38, 40, 44, 45, MER 10-12, OMC 10, VOM 1, 2	7205M	MER 3	8K517CP 30	FOT 33
6689MA	AMC 4, GM 26, GMT 8, JEE 6	7207M	MZ 2, 3, 5	8K526P 30	CHR 43, DT 24
6690MA	GM 26	7208M	GMT 1, SZT 3	8K536NCP 20	GM 73, GMT 36, MER 10
6692M	FO 10, 11, MZ 11, 13-15, MZT 4, 5	7210M	NI 8, 9, 12	8XH418P 20	FO 65, FOT 47
6693M	TO 27-29	7212M	MZT 8	8XH582P 40	FOT 47
6695MA	FO 7	7216M	DT 26	8XH654P 30	FO 44, FOT 33
6699MA	HO 4, 7, 9, 10	7218M	GM 10	8X272AP 20	FO 42, 44, FOT 29, 33, MER 9, OMC 8
67006BF	GMT 5, IST 3, 4	7219M 10	FOT 43, 46, IH 27	8X273AP 20	FO 42, 44, FOT 29, 33
67033BF	TO 14, 22, 25-29, TOT 2	7222M .25MM	GM 50, 65	8X285NP 20	CHM 12, CHR 43, DT 24
67261BF	IH 6, NIT 6, 10	7241MA	GM 29, GMT 12, JEE 7	8X345NP 20	GM 88, GMT 44, MER 12, VOM 2
67271BF	TO 1-3	7242MA	GM 29, 31, 32, GMT 12, 13, IST 7, JEE 7	8X405P 30	CHM 15, CHR 51, DT 27
67277BF	TO 9, 10, 17-20, TOT 4, 7	7243MA .25MM	GM 29, GMT 12, JEE 7	8X423NP 20	GM 88, GMT 44, MER 12
67328BF	JEE 4	7244MA .25MM	GM 29, 31, 32, GMT 12, 13, IST 7, JEE 7	8X427P 30	FO 57, FOT 42
67332AF	TO 21, 23, TOT 6, 8	7245MA	FOT 10, 22	8X454NP 20	GM 73, GMT 36, MER 10, VOM 1
67333AF	TO 23, TOT 8, 9	7246MA 10	FOT 10, 22	8X463P 30	FO 51, FOT 37, MER 13, OMC 11
6734M	TO 22, 25-27	7247M	VOL 5-7	8X526P 20	CHR 43, DT 24
67341AF	HO 1-10, 13-15, 17	7251M	GMT 24	8X534NP 30	GM 73
6768M	TO 1-3	7256MA	GM 65	8X536NP 20	GM 73, GMT 36, MER 10
677CP	JEE 13			8-1505CAA	FO 34, 38, FOT 19, 25
677P	JEE 13			8-1555CPA	GM 79, 87, 97, 105, 111, 116, 121, GMT 41
677X	GMT 17, IH 8, 11, 18			8-2000CPA	FO 33, 39, 41, 43, 45, FOT 18, 28, 30



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8-2120CP	GM 93, 98, 117	9024V	FO 28, 34, FOT 14, 19		
8-2130CA 60	CHM 11, 12, 14, 15, CHR 35, 37, 39-41, 43, 45, 47, 51, DT 22, 24, 27	9024VA	FO 28, 34, 38, FOT 14, 19, 25		
8-2130CP	CHM 11, 12, 14, 15, CHR 35, 37, 39-41, 43, 45, 47, 51, DT 22, 24, 27	9024XBS	FO 28, 34, 38, FOT 14, 19, 25		
8-2130CP 10X2	CHM 11, 12, 14, 15, CHR 35, 37, 39-41, 43, 45, 47, 51, DT 22, 24, 27	916M	CHM 13, CHR 46, 50		
8-2320CA 60	CHM 16-21, CHR 49, 52, 53, 55-58, DT 29-31	9185CP	CHM 4, 6, CHR 26, 28, DT 13, 17		
8-2320CP	CHM 16-21, CHR 49, 52, 53, 55-58, DT 29-31	92P	GMT 27		
8-2410CP	IH 17, 19-22, 24	9219V	IH 3, 4, 7, 10, 12, 15		
8-2500RAA	GM 39, 40, 62, 68-70, 83, 86, JEE 17, OMC 7, ROV 2, SM 5	9219X	IH 3, 4, 7, 10, 12, 15		
8-2555A	GM 57, 64, 71, 73, 75, 80, 88, 104, GMT 30, 36, 38, 40, 44, 45, 51, MER 10-12, OMC 9, 10, VOM 1, 2	933P	IH 8		
8-2555A 10X2	GM 57, 64, 71, 73, 75, 80, 88, 104, GMT 30, 36, 38, 40, 44, 45, 51, MER 10, VOM 1	935M	IH 8, 11, 16		
8-2555CA 60	GM 57, 64, 71, 73, 75, 80, 88, 104, GMT 30, 36, 38, 40, 44, 45, 51, MER 10-12, OMC 9, 10, VOM 1, 2	9362KX	FOT 21		
8-2555CP	GM 57, 64, 71, 73, 75, 80, 88, 104, GMT 30, 36, 38, 40, 44, 45, 51, MER 10-12, OMC 9, 10, VOM 1, 2	9559X	GM 42, 49, GMT 16, 21		
8-2555CP 10X2	GM 57, 64, 71, 73, 75, 80, 88, 104, GMT 30, 36, 38, 40, 44, 45, 51, MER 10-12, OMC 10, VOM 1, 2	9560CPA	CHM 7-9, CHR 29, 31, 33, DT 14, 16, 18, 20		
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8-2600A 10X2	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8	9629X	IH 1		
8-2600CA 60	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8	963M	FO 45		
8-2600CP	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8	980P 20	GMT 35		
8-2600CP 10X2	FO 27, 37, 40, 42, 44, FOT 24, 29, 33, MER 9, OMC 8	9800CA	FO 28, FOT 14		
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8-3045APA 10X2	GM 54, 55, 74, 81, 90, 91, 109, GMT 46	9849	GMT 17, 19		
8-3045A 10X2	GM 54, 55, 74, 81, 90, 91, 109, GMT 46	9849V	GMT 17, 19, 25		
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8-3230CP	FO 47, 52, 56, 58, 59, 61, 62, FOT 35, 38, 39, 41, 44	997KX	FO 34		
8-3230CP 10X2	FO 47, 52, 56, 58, 59, 61, 62, FOT 35, 38, 39, 41, 44	997X	FO 34		
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8-3380A 10X2	FO 51, FOT 37, MER 13, OMC 11				
8-3380CPA	FO 51, FOT 37, MER 13, OMC 11				
8-3380CPA 10X2	FO 51, FOT 37, MER 13, OMC 11				
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8649XA	CHM 4, 6-9, CHR 26, 28, 29, 31, 33, DT 13, 14, 16-18, 20, JEE 9-11				
8649XAS	CHM 4, 6-9, CHR 26, 28, 29, 31, 33, DT 13, 14, 16-18, 20, JEE 9, 10				
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