Performance Engine Parts and Kits

catalog no. **X-3009** 2015

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DUROSHIELD® Competition Series Coated Bearings

The latest in advanced bearing technology

ENERGY

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- Enhanced molybdenum disulfide coating in a polymer base adds an extra layer of protection
- High lubricity and low friction reduces potential damage from interrupted lubrication

Speed-Pro has consistantly delivered the latest technology in performance engine bearings. Our unparalleled H-14 alloy, 3/4 groove lubrication design, and "ramp and flat" thrust bearing configuration revolutionized the racing bearing industry. We are taking the next step by offering the first coated bearing program that has been tested and backed by a major manufacturer.

Advanced chemistry delivers an extra layer of protection

Speed-Pro DUROSHIELD coated bearings deliver all the performance and race winning durability found in our traditional race parts, plus unique additional benefits derived from the specialized polymer coating. A micro-thin unique enhanced molybdenum disulfide in a polymer base, the coating's hydrophilic matrix becomes part of the bearing, absorbing oil for high lubricity and low friction. You get an added level of protection from potential damage caused by dry starts or interrupted lubrication.

Tested and Proven

Speed-Pro DUROSHIELD coated bearings have been tested and proven under brutal operating conditions. We've run them in Mike Moran's twin turbo 3000 horsepower drag engine at nearly 240 miles per hour with no signs of stress. We ran them in Hot Rod magazine's record setting Camaro at the Bonneville salt flats.

DUROSHIELD coating

Coating layer

ENERG

.0003" thick

20 µm

test Truck

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PERFORMANCE TIMING SETS

Specifically engineered for specific performance

Speed-Pro offers a broad assortment of high performance timing sets engineered to meet your engine-building needs. Each set includes a high quality timing chain selected to meet each engine's particular design requirements, plus precision made-in-the USA sprockets that mesh precisely with the chain for optimum performance and long life. Sets are available in three levels to meet the widest variety of needs, from street performance to hardcore racer:

- Competition Roller Series 3600
- Billet Roller Series 3500
- Performance Roller Series 1100

See which one is right for you.

Competition Roller Timing Sets (3600)

RACE READY

Features

- Induction heat-treated, billet steel sprockets
- 9-keyway billet steel crank sprocket allows
 +/- 8 , adjustability in 2° increments
- Premium roller chain with .250" diameter rollers
- Hand matched to qualify center distance and control run-out

Billet Roller Timing Sets (3500) SPORTSMAN RACER

Features

- Billet steel cam sprocket
- Induction heat-treated, billet steel crank sprocket
- 9 keyways allow +/- 8 degrees
- Adjustability in 2 crank degree increments
- Roller chain with .250" diameter rollers
- Made in USA







PERFORMANCE TIMING SETS

Performance Roller Timing Set (1100) STREET PERFORMANCE AND VALUE

Features

- Cast-iron cam sprocket
- Induction heat-treated, billet steel crank sprocket
- 3-keyways allow +/- 4 degrees adjustability in 2 crank degree increments
- Roller chain with .250" diameter rollers
- Made in USA

	Devit			New fee			Fe	eatured Techr	nology			l
Туре	Number	A	pplication	2014	CAM Sprocket	CRANK Sprocket	MACHINING	CHAIN	CRANK Keyways	TIMING Range	HAND Matched	
	CTS-3600TX9R*	Chevy	Small Block / V6	New		11/11/11/11		PREMIUM 0.25"				
	CTS-3603X9R	Chrysler	Small Block / V6	New	HIGHEST	100		DIA COLD			MATCHED	
SPEED-PRO	CTS-3608X9R	Ford	FE Series	New	DURABILITY	BILITY		ROLLED AND	9 KEYWAYS		FOR CONSISTENT TIMING,	
COMPETITION	CTS-3610TX9R*	Chevy	Big Block	New	INDUCTION	DURABILITY	CNC					0
ROLLER	CTS-3612X9R	Pontiac	V8	New	HARDENED	HARDENED	FOR		FOR	+/- 8° IN 2°		E
TIMING SET	CTS-3621X9R	Ford	Cleveland / Modified	New	OIL	OIL	EXACTING	WITH	MAXIMUM	INCREMENTS	OPTIMAL	E
	CTS-3622X9R	Ford	Big Block	New	QUENCHED	QUENCHED	TOLERANCES	HIGH	ADJUSTABILITY			
	CTS-3625TX9R*	Chrysler	Big Block	New	STEEL	BILLET		STRENGTH			INCREASED	5
JOUU SERIES	CTS-3635X9R	Ford	Small Block	New	0	STEEL		HEAT TREATED			CHAIN LIFE	
	CTS-3645X9R	Chevy	Small Block / V6	New								
	CTS-3676X9R	Ford	Modular 4V	New	7 5 5 5			TEATEO				
	CTS-3500TX9R*	Chevy	Small Block / V6	New		1. S.						
	CTS-3503X9R	Chrysler	Small Block / V6	New		HIGH DURABILITY I'H INDUCTION HARDENED BILLET STEEL	CNC MACHINED FOR TOLERANCES	0.25" DIA ROLLER TO ELIMINATE SLIDING FRICTION	9 KEYWAYS FOR MAXIMUM ADJUSTABILITY	+/- 8° IN 2°	NO	
	CTS-3510TX9R*	Chevy	Big Block	New								8
SPEED-PRO	CTS-3512X9R	Pontiac	V8	New								ACI
BILLET RULLER	CTS-3513X9R	Olds	V8	New	STRENGTH							B
TIMING SET	CTS-3521X9R	Ford	Cleveland / Modified	New	w BILLET W STEEL					INCREMENTS		AN
	CTS-3522X9B	Ford	Big Block	New								SI
	CTS-3525TX9B*	Chrysler	Big Block	New								R R
3500 SERIES	CTC 2522V0D	Duick	Small Plook / 1/6	Now								SPC
	013-3332A9h	DUICK	Sindii Diock / Vo	NUCOV								
	CTS-3535X9R	Ford	Small Block	New								
	CTS-3545X9R	Chevy	Small Block / V6	New								
	CTS-1100NR	Chevy	Small Block / V6	Supersedes CTS-1100R								
	CTS-1103R	Chrysler	Small Block / V6	New								
	CTS-1104R	Chrysler	Big Block	New								
	CTS-1108R	Ford	FE Series	New								
SPEED-PRO	CTS-1110NR	Chevy	Big Block	Supersedes CTS-1110R								ANCE
PERFORMANCE	CTS-1110TR*	Chevy	Big Block	New		HIGH	CNC	0.25" DIA	3 KEYWAYS			N N
BOLLER	CTS-1112R	Pontiac	V8	New		DURABILITY	MACHINED	ROLLER		1/- 1° IN 2°		Ö
TIMING SET	CTS-1113R	Olds	V8	New	CAST IRON	HARDENED	FOR	TO ELIMINATE	ADJUSTABILITY	INCREMENTS	NO	
THINK OLT	CTS-1121R	Ford	Cleveland / Modified	New		BILLET	EXACTING	SLIDING	VS OE SINGLE			
	CTS-1122R	Ford	Big Block	New		STEEL	TULERANGES	FRICTION	KEYWAY			
TTUU SERIES	CTS-1125R	Chrysler	Big Block	New								TB
	CTS-1132R	Buick	Small Block / V6	New								ŝ
	CTS-1135NR	Ford S	Small Block	Supersedes CTS-1111R								
	CTS-1138NR	Ford	Small Block	Supersedes CTS-1119R								
	CTS-1145R	Chevy	Small Block / V6	New								

DUROSHIELD® HYPEREUTECTIC Piston Sets With Rings

Each complete set contains:

Eight size and weight matched hypereutectic pistons

- Ideal for budget conscious engine builders
- Weights accurate to within 2 grams per set
- Reduces or eliminates the need for piston balancing
- Size matched within .0005" you can bore the cylinders to one size
- DUROSHIELD coating delivers longer life and reduced friction
- Save time and money pistons & rings together in a single package

Sealed Power premium quality moly faced piston ring set

- A perfect match for the pistons guaranteed correct sizing
- Moly facing delivers optimal sealing and long life
- Famous SS50 expander design delivers superior oil control

Piston pins

Pin fit and ready for installation

■ Lock rings (as required)

Many feature the latest round wire retainer technology



Piston Set w/Rings Base Number	Available Sizes	Piston Number	Ring Set Number	Notes	Features	Dome Design	Compression Ratio
Hypereutectic							
Chevrolet 350							
8-KH423NCP 8-KH345NCP 8-KH618CP 8-KH100CP 8-KH631CP	30 40 60 29 40 60 30 40 60 30 40 60 30 40 60	H423NCP H345NCP H618CP H100CP H631CP	E251K E251K E251K R8902 E251K		DUROSHIELD coated DUROSHIELD coated DUROSHIELD coated DUROSHIELD coated, CNC machined DUROSHIELD coated	.070" dish 4 relief flat top 4 relief .125" dome CNC flat top 2 relief flat top 2 relief	8.9:1 w/34cc heads 9.35:1 w/64cc heads 10.72:1 w/64cc heads 9.73:1 w/64cc heads 9.73:1 w/64cc heads
Chevrolet 383			505/11/				
8-KH670CP 8-KH859CP 8-KH137CL 8-KH860CP 8-KH124CL	30 30 40 60 30 30 40 60 30 40 60	H670CP H859CP H137CL H860CP H124CL	E251K E251K R8902 E251K R8902	5.565" rod 5.7" rod 5.7" rod 5.7" rod 6" rod	DUROSHIELD coated DUROSHIELD coated DUROSHIELD coated tapered pin DUROSHIELD coated DUROSHIELD coated	.070° dish, .110° dish 2 relief CNC reverse dome flat top 2 relief CNC flat top 2 relief	9.78:1 w/64cc heads 9.67:1 w/64cc heads 9.67:1 w/64cc heads 10.4:1 w/64cc heads 10.53:1 w/64cc heads
Chevrolet 400							
8-KH616CP	30 40 60	H616CP	E243K	5.7" rod	DUROSHIELD coated	flat top 4 relief	10.84:1 w/64cc heads
Chevrolet 454							
8-KH625CP 8-KH426CP	30 40 60 30 40 60	H625CP H426CP	E233K E233K		DUROSHIELD coated	flat top 2 relief .100" dome 1 relief	8.5:1 w/107cc heads 9.37:1 w/107cc heads
Chrysler 360							
8-KH116CP Chrysler 440	30 40 60	H116CP	E251K		DUROSHIELD coated, CNC machined	CNC flat top, 2 reliefs	9.5:1 w/68cc heads
8-KH147CP	30	H147CP	E424K		DUROSHIELD coated, CNC machined	CNC flat top, 2 reliefs	9.4:1 w/88cc heads
Ford 4.6L 2V							
8-KH591CP	.5075-1.00MM	H591CP	E538K		DUROSHIELD coated	.150" dish	9.45:1 w/63cc heads
Ford 302							
8-KH273CP 8-KH120CP	30 40 60 30 40 60	H273CP H120CP	E251K R8902		DUROSHIELD coated DUROSHIELD coated, CNC machined	flat top 4 relief CNC flat top 2 relief	8.6:1 w/63cc heads 9.09:1 w/63cc heads
Ford 347							
8-KH146CL	30	H146CL	R8968	5.4" rod	DUROSHIELD coated	flat top, CNC 2 reliefs	9.9:1 w/63cc heads



Each complete set contains:

Eight size and weight matched POWERFORGED pistons

- The optimal choice for street performance and racing applications
- Weights accurate to within 2 grams per set
- Reduces or eliminates the need for piston balancing
- Size matched within .0005" you can bore the cylinders to one size
- DUROSHIELD[®] coating delivers longer life and reduced friction
- Save time and money pistons & rings together in a single package

Sealed Power premium quality moly faced piston ring set

- A perfect match for the pistons guaranteed correct sizing
- Moly facing delivers optimal sealing and long life
- Famous SS50 expander design delivers superior oil control

Piston pins

Pin fit and ready for installation

Lock rings (as required)

Many feature the latest round wire retainer technology

Piston Set w/Rings Base Number	Available Sizes	Piston Number	Ring Set Number	Notes	Features	Dome Design	Compression Ratio
POWERFORGED							
Chevrolet 327							
8-KL2166NF 8-KL2165F	30 40 60 30 40 60	L2166NF L2165F	E251K E251K	5.7" rod 5.7" rod	DUROSHIELD coated DUROSHIELD coated	.125" dome flat top 2 relief	10.35:1 w/64cc heads 9.07:1 w/64cc heads
Chevrolet 350							
8-KL2441F 8-KLW2603F 8-KL2256F 8-KLW2256F 8-KL2490F 8-KL2304F	30 30 60 30 40 60 30 40 60 30 60 30 60	L2441F LW2603F L2256F LW2256F L2490F L2304F	E251K R8902 E251K R8902 R8902 E251K	5.7" rod 5.7" rod 5.7" rod 5.7" rod 5.7" rod 5.7" rod	DUROSHIELD coated DUROSHIELD coated lightweight, tapered pin DUROSHIELD coated DUROSHIELD coated lightweight, tapered pin DUROSHIELD coated DUROSHIELD coated	"D" shaped cup reverse dome flat top 4 relief flat top 4 relief flat top 2 relief .100" dome	8.35:1 w/64cc heads 8.97:1 w/64cc heads 9.72:1 w/64 cc heads 9.72:1 w/64 cc heads 10.06:1 w/64 cc heads 10.63:1 w/64cc heads
Chevrolet 383							
8-KLW2605F 8-KL2491F	30 60 30 60	LW2605F L2491F	R8902 R8902	5.7" rod 5.7" rod	DUROSHIELD coated lightweight, tapered pin DUROSHIELD coated	reverse dome flat top 2 relief	9.68:1 w/64cc heads 10.76:1 w/64 cc heads
Chevrolet 396 8-KL2240NF	30.60	1 2240NF	F243K		DUBOSHIELD coated	.182" dome	9.09:1 w/107cc heads
Chevrolet 400							
8-KLW2606F 8-KL2352F	30 30 40	LW2606F L2352F	R8375 E251K	5.7" rod 5.7" rod	DUROSHIELD coated lightweight, tapered pin DUROSHIELD coated	reverse dome .083" dish 4 relief	9.78:1 w/64cc heads 9.91:1 w/64 cc heads
Chevrolet 427							
8-KL2300F	30 40 60	L2300F	E233K		DUROSHIELD coated	.140" dome	9.46:1 w/107cc heads
8-KL2377F 8-KL2399F 8-KL2465F	30 40 30 60 30 60	L2377F L2399F L2465F	E233K E233K E233K		DUROSHIELD coated DUROSHIELD coated DUROSHIELD coated	flat top 2 relief .095" dome .215" dome	8.36:1 w/107 cc heads 9.7:1 w/107cc heads 10.68:1 w/107cc heads
Chrysler 440							
8-KL2266F 8-KL2355F	30 40 60 30 40 60	L2266F L2355F	E424K E424K		DUROSHIELD coated DUROSHIELD coated	flat top flat top	8.66:1 w/88cc heads 9.37:1 w/88cc heads
Ford 302							
8-KL2305F 8-KL2482F 8-KL2488F	30 40 60 30 40 60 30 40 60	L2305F L2482F L2488F	E251K E251K E458K		DUROSHIELD coated DUROSHIELD coated DUROSHIELD coated	.068" dish flat top 4 relief flat top 4 relief	8.67:1 w/63cc heads 9.13:1 w/63 cc heads 9.53:1 w/63 cc heads
Ford 351C							
8-KL2379F	30 40	L2379F	E251K		DUROSHIELD coated	flat top 2 relief	8.9:1 w/76cc heads
Ford 351W							
8-KL2446F 8-KLW2601F	30 40 30 40	L2446F LW2601F	E251K R8902		DUROSHIELD coated DUROSHIELD coated lightweight	.110" dish flat top 2 relief	9.06:1 w/63cc heads 9.65:1 w/63cc heads
Ford 429							
8-KL2366F	30 40	L2366F	E296K		DUROSHIELD coated	flat top	10.26:1 w/77cc heads
Ford 460							
8-KL2404F 8-KLW2602F 8-KL2443NF	30 40 60 30 60 30 60	L2404F LW2602F L2443NF	E296K E296K E296K		DUROSHIELD coated DUROSHIELD coated lightweight DUROSHIELD coated	.180" dish flat top 1 relief .400" dome	9.02:1 w/77cc heads 9.70:1 w/92cc heads 10.55:1 w/92cc heads



POWERFORGED® PISTONS

The best value in performance pistons

- Weight Matched Sets ± 2 Grams
- Skirt Coated
- CNC Machined
- Media Blasted
- More Accurate Machining
- Precise Tolerances

Professional Quality at a Sportsman Price!

POWERFORGED pistons are setting new standards for performance and value. These pistons feature unique aerospace quality alloy forged to shape using 3,000 *tons* of force – a dramatically improved level of machining quality – and come with our proprietary DUROSHIELD[®] skirt coating . . . at no extra-cost!



A major investment in CNC manufacturing technology delivers dependable power, awesome quality, and maximum value. From micro-accurate ring grooves to complex skirt profiles, POWERFORGED pistons are now better than ever! 44-131-15-6



LIGHTWEIGHT "LW" SERIES POWERFORGED® PISTONS

Compare the Features! Compare the Value!

Tapered Pins

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- Dramatically Lighter
- Floating Pins
- CNC Machined
- DUROSHIELD[®] Skirt Coated
- 1/16 1/16 3/16 Grooves;
 1.5mm 1.5mm 3.0mm
 Grooves
- Round Wire Lock Rings
- Media Blasted



Numerous Applications

- Small Block Chevy
- Small Block Ford
- Big Block Chevy
 - у 🔳
- Reverse Domes
- Flat Tops
- **Domes**
- Strokers
 - Strokers

COMBINE WITH SPEED-PRO RING SETS FOR A HIGH VALUE POWER PACKAGE!

The latest in computerized engineering and manufacturing technology delivers an unbeatable combination of accuracy, power, and value!

T MOTORSPORTS PARK

HYPEREUTECTIC PISTONS

Your best value in a performance piston

piston - perfect for the racer on a budget.

Speed-Pro combines our proprietary FM244 alloy, sophisticated design, and DUROSHIELD[®] coating in a high value hypereutectic

- Weight Matched Sets
- Work perfectly with normal ring gaps
- DUROSHIELD friction reducing coating
- Round wire retainers

Round Wire Pin Retainers

Speed-Pro pistons are designed and manufactured by Federal-Mogul, in one of the world's most advanced piston facilities.

Speed-Pro pistons that utilize floating pins use **round wire retainers** along with a chamfered pin. This retainer design eliminates potential stress risers and spreads side loads across the entire pin boss area – resulting in a much stronger piston.





The finest hypereutectic pistons available

DIGITAL DIAMOND

PROFILED™ (DDP)

PISTONS

- Weight Matched Sets ± 2 Grams
- DUROSHIELD[®] Skirt Coated
- CNC Machined
- Work perfectly with normal ring gaps
- Round wire retainers
- Optional tapered pin

Speed-Pro combines our exclusive FM244 aluminum

alloy, sophisticated design, high technology CNC machining, and DUROSHIELD skirt coating to deliver the ultimate hypereutectic piston!

Speed-Pro pistons are designed and manufactured by Federal-Mogul, in one of the nation's most advanced piston facilities.



Dedicated CNC technology delivers awesome quality, with micro-accurate ring grooves, consistent dome dimensions, and complex skirt profiles.



FILE-FIT AND "DROP-IN" PISTON RING SETS

Race winning technology that everyone can afford

Oval track "claimer", Saturday night "cruiser", or bracket racer - we have your rings!

Compared to stock rings, Speed-Pro piston rings will make more horsepower and last longer. An upgrade to Speed-Pro rings is an investment in quality – for any high performance engine.

Most Speed-Pro top rings are made from virtually unbreakable, high strength ductile iron, with a plasma-moly facing for instant seating and long life.

Speed-Pro second rings are cylinder friendly SAEJ929a cast iron, with an oil controlling taper face profile and an intentional open gap design that reduces inter-ring pressure buildup.

Stainless steel oil rings prevent the high RPM deflection that low cost "rebuilder" designs are subject to – excellent oil control at the highest RPM.

- Proven race winning power
- Reliable cylinder sealing under "real-world" conditions
- Consistently accurate
- Readily availabile
- Excellent oil control

FILE FIT SPEED-PRO RING SETS

CHECK THE RING SECTION FOR DETAILS!

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4.6L Ford	R-10596	1.5mm - 1.5mm - 3.0mm	13mm-64mm-89m
LS1 Chevy	R-10598	1.5mm - 1.5mm - 3.0mm	13mm-38mm
Honda B18	R-10599	1.0mm - 1.2 <mark>mm - 2.8mm</mark>	13mm-64mm
Honda D16	R-10600	1.0mm - 1.2 <mark>mm - 2.8mm</mark>	13mm-64mm
4.000" Bore	R-10603	1.5mm - 1.5 <mark>mm - 3.0mm</mark>	5-25-35-45-65
4.125" Bore	R-10604	1.5mm - 1.5mm - 3.0mm	5-35-45-65

LIGHTWEIGHT TAPERED PINS FOR SPEED-PRO PISTONS

CHEVY VERSIONS:									
P2604 P2605 P2606	2.50" x .927 3.00" x .927 2.95" x .990	Chevy 350 100 grams Chevy 350 125 grams Chevy 454 150 grams							
	FORD VERS	ION:							
P2607	2.75" x .912	Ford 302 120 grams							

SPEED-PRO CLAIMER SERIES RING SETS

For Oval Track Claimer Engines

- Economically priced
- 1/16 top ring beveled for high RPM sealing
- Available moly facing for increased durability
- Race proven design
- 1/16 taper faced second ring
 - Excellent oil control to prevent detonation
 - SS-50 stainless steel oil control ring

The ultimate in oil control.

4.125" BORE SERIES										
Top Ring 1/16 BT-10-059 4.125 R-6375 Standard 2nd Ring 1/16 RBT-10-084 0il Ring 3/16 SS-50U-640 Standard Tension, Available Oversizes: .030040										
4.125 Standar	Top Ring 1/16 BRI-10Y-093 4.125 R-8375 Moly 2nd Ring 1/16 RBT-10-084 Oil Ring 3/16 SS-50U-640									
Stanual	u Terision, Available Over	Standard Tension, Available Oversizes: .030, .040, .060								

4.0	0	0"	B	0	R	E	S	Ε	R	IE	S	
	-	<u> </u>	-	9			9				<u> </u>	

4.000 Standard	R-6902 Standard Tension, Available Ov	Top Ring 2nd Ring Oil Ring <i>rersizes: .030, .060</i>	1/16 1/16 3/16	BT-10-557 RBT-10-102 SS-50U-5029
4.000 Standard	R-8902 Moly Tension, Available Ove	Top Ring 2nd Ring Oil Ring ersizes: .030, .040,	1/16 1/16 3/16 .060	BR-10PF-177 RBT-10-102 SS-50U-5029

COMPETITION SERIES RACE BEARINGS

Contoured Flange Design – Double Thrust Load Capacity

Competition series main sets incorporate a patented "contoured flange" thrust bearing design, which greatly increases thrust load capacity. These unique bearings use a series of formed "ramp and flat" hydrodynamic profiles on the flange surface. This contour channels oil onto the surface of the flanged face. Applications using high clutch loads or frequent "on and off" throttle transitions will benefit from this innovation.

Competition series thrust bearings also feature three vertical grooves machined into the flange surface, instead of the "thumbnail" shaped oil reliefs found on previous bearings. The through groove design provides added lubrication.

3/4 Oil Groove - the solution for racing durability

The greater the surface area, the more load a main bearing can handle. But without adequate oiling, the rod bearings will fail. Our solution to this challenge is the 3/4 groove, which maintains full surface area in the high load portion of the bearing, while permitting improved oil flow to the rod bearing. This unique design gives the best of both worlds – ultimate high strength with outstanding lubrication characteristics.



Crank Direction

Ramp

Enlarged Veiw of Thrust Face Pad Section





HIGH PERFORMANCE VALVETRAIN **COMPONENTS**



Valve Spring Retainers Valve Locks High Strength

4140 Chrome Moly

- For 3/8" and 11/32" Valve Stems
- Available in both 7 and 10 degree designs
- Heat-treated for added strength

- VK 100R series Stamped steel
- VK 200R, VK 300R Series 4140 chrome moly Machined

Rocker Studs

■ 4140 Chrome Moly steel - rolled threads for high strength

Performance Valves

Speed-Pro offers two series of performance valves:

Competition Series For serious race efforts Specialized materials and heat treating for maximum performance

POWERFORGED

For street performance Race guality features at and excellent price



All Speed-Pro Valves Include:

- Stainless steel
- One piece design
- Swirl polished
- Chrome stem
- Hardened tip



Speed-Pro Performance Rocker Arms

- Stock replacement ball pivot mounting
 - Allows use of high lift cams

Steel roller tip rockers

- Stock replacement ball pivot mounting
 - Roller tip for reduced friction
 - **Optional 1.6 ratio available**

Long slot stamped steel rockers Aluminum roller rockers

- Heavy duty roller trunion for stud mounting
- Roller tip for reduced friction
- High strength anodized aluminum body

■ Stainless steel roller rockers

- Heavy duty roller trunion for stud mounting
- Roller tip for reduced friction
- Extra high strength stainless steel body

Pushrods

Super high strength pushrods for serious racing

- Premium .080" wall 4130 chrome moly tubing One piece forged design Available in numerous lengths from 6.25" to 9.75"
 - Black oxide coated for corrosion resistance Laser etched part
 - numbers for positive identification
 - See pushrod numerical listing for complete selection





JES

SPEED-PRO® PERFORMANCE **CAMSHAFTS**

Emission Legal Performance Camshafts

- Seven grinds available
- 50 state legal for use in emission controlled vehicles
- Fits 1987 & earlier carbureted small block Chevrolets
- E.O. Number D-297-1

Hydraulic Lifter Performance Camshafts

- Hundreds of cams to meet any need daily driver, RV, or racing
- Precision ground to exact specs in heat-treated cast iron
- Quiet, reliable operation without needing frequent adjustment
- Priced right. An outstanding value in horsepower per dollar!

Muscle Car Camshafts

- Original profiles for many popular muscle cars
- They install, perform, and sound "just the way you remembered"

Hydraulic Roller Camshafts

- Roller cam performance without frequent lash adjustment
- Top quality materials ensure outstanding reliability
- Smooth valvetrain action
- Available individually or in complete kits for easy installation
- 17 cam grinds available
 - Small Block Chevy
 - 4 Retro-fit kits for pre-'87 non-roller cam engines
 - 6 Upgrade kits for '87 & newer roller cam-engines
 - Big Block Chevy
 - 3 retro-fit kits for non-roller cam engines
 - Small Block Ford
 - 4 cams for '85- 93 5.0L GT-Mustangs

2015 Performance Parts Catalog Table of Contents



Speed-Pro Engine Kit Section

Speed-Pro Performance Engine Kits – A complete rebuild in a box							
Application Listings	XIX						
Numerical Listing – Kit Contents	XXXII						
Speed-Pro Gasket Sets	XXXV						
Engine Builder Highlights by engine manufacturer	XXXVII						

Speed-Pro Component Application Section

American Motors	
Component Applications	1
Buick	
V6 Component Applications	4
V8 Component Applications	8
Chevrolet	
4 & 6 Cylinder	
V6 Component Applications	10
Gen III V8 LSI; 6.0L	
Component Applications	
Small Block V8	
Component Applications	
Big Block V8	
Component Applications	64
Chrysler	
Small Block V8	
Component Applications	84
Big Block V8	
Component Applications	
Ford	
1.6L; 2.0L; 2.3L 4 Cylinder	
Component Applications	
4.6L; 5.4L; Modular V8	
Component Applications	
289; 302; 351W Small Block V8	20
Component Applications	
351C; 351M; 400 Small Block V8	115
390; 427; 428 Big Block V8	110
429; 400 BIG BIOCK VO	121
	100
Dention	
350; 389; 400; 455 V8 Component Applications	100
Component Applications	

2015 Performance Parts Catalog Table of Contents

Numerical Listings and Technical Information

Bearings	
Bearing Selection Guidelines	
Bearing Numerical Listing – With Specifications	142
Camshafts	
Camshaft Selection Guidelines	
How To Degree A Camshaft	
Camshaft Numerical Listing – With Specifications	
Lifters	
Lifter Selection Guidelines	
Lifter Numerical Listing	
Oil Pumps	
Oil Pump Selection Guidelines	
Oil Pump Numerical Listings – With Specifications	
Pistons	
Piston Selection Guidelines	
Piston Numerical Listing – With Specifications	
Piston Rings	
Piston Bing Selection Guidelines	183
Piston Ring Application Listings	
Piston Ring Sets – By Bore Diameter	
Open Stock Piston Ring Listing	
Piston Ring Sets – Numerical Listing	
Valves	
Valve Selection Guidelines	
Valve Numerical Listings – With Specifications	
Valves – Progressive Size Chart	
Valvetrain Section	
Pushrod Selection Guidelines	
Pushrod Numerical Listing – With Specifications	
Pushrod – Progressive Size Chart	
Rocker Arm Selection Guidelines	
Rocker Arm Numerical Listing – With Specifications	
Rocker Studs and Adjustment Locks – Numerical Listing	230
Timing Set Gaskets Reference Chart	231
Timing Set Selection Guidelines	234
Timing Sets Numerical Listing – With Specifications	
Valve Spring Selection Guidelines	
Valve Spring Numerical Listing – With Specifications	
Valvetrain Selection Guidelines	
Valve Guides Numerical Listing – With Specifications	
valve Locks Numerical Listing – with Specifications	
Valve Spring Inserts	
Valve Stom Saale, Valve Spring Saate	
vaive Sterri Seals, Vaive Spring Seals	
Cylinder Head Identification and Chamber Volume Listing	
Cymrael flead ruchanoation and Chamber Volume Listing	



How To Use This Catalog



The Component Application Section Includes:

- Speed-Pro POWERFORGED Pistons
- Speed-Pro Hypereutectic Pistons
- Speed-Pro Piston Rings
- Speed-Pro Engine Bearings
- Speed-Pro Camshafts
- Speed-Pro Valves and Valvetrain Components

This section is arranged first by **VEHICLE MANUFACTURER**, then by **ENGINE FAMILY**. Each engine family contains an information page with technical tips and precautions relating to that particular engine. See Engine Builder Highlights on pages XXXVIII-XLIX.

Pistons are listed in the following order:

- 1) Basic Engine Displacement i.e., 283", 350"
- 2) Piston Type Hypereutectic, POWERFORGED
- Rod Length and Stroke Variations Stock, "Stroker" ("stroker" engines use a non-original crankshaft to alter engine size.)
- Compression Ratio Using "Standard" piston as a reference. (oversizes are listed in order below the standard bore)
- Compression Ratio data is given for a number of popular chamber volumes. Compression Ratios and Deck Clearances have been recalculated using a standardized gasket and a non-cut O.E. block deck height.
- 6) Piston Ring options are listed alongside each piston.

Camshaft and Valvetrain information includes all cylinder head components and timing products along with the cam and lifters.

- The catalog has been constructed to show the camshaft and it's matching lifters, springs, locks, and retainers in the same listing. Each camshaft has lift and duration specifications alongside the part number.
- The camshaft identification codes have been revised. Cams are listed first by lifter type, then by increasing intake duration.

Valves are shown separately in order of application, head diameter, stem diameter, and material.

Pushrods, Rockers, etc. are also listed separately, and shown in order of ratio, length, material, or features, as appropriate.

Engine Bearings and Oil Pumps will be listed immediately after engine family camshaft data.

Many products listed in this catalog are dedicated racing items and are not intended for use in emission controlled vehicles. Unless otherwise indicated, these parts are not to be installed in vehicles subject to emission control regulations.

Products which may impact a vehicle's emission output include, but are not limited to: camshaft, pistons, timing sets, and valves.

If any part in this catalog is different than the O.E. replacement part listed for the specific vehicle in the Sealed Power standard replacement parts catalogs, it is likely to be unsuitable for street use in that application.

Check with your state vehicle emission regulating authorities before installation of any parts listed in this catalog. Federal-Mogul is not liable for your vehicle's emission law compliance or for the failure of an emission test or inspection.

Warranty Disclaimer*

Due to the nature of performance applications, the parts in this catalog are sold without any expressed warranty or any implied warranty of merchantability or fitness for a particular purpose. Federal-Mogul shall not, under any circumstances, be liable for any special, incidental or consequential damages, including, but not limited to damage or loss of other property or equipment, loss of profits or revenue, cost of purchased or replacement goods, or claims of customers of the purchaser, which may arise and/or result from the sale, installation or use of these parts.

Installation of these parts could adversely affect the vehicle manufacturer's warranty coverage.

*Subject to applicable state law.

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CATALOG INFORMATION ENGINEERING TECH

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Performance Engine Kits



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Buick 231 Turbo

Engine Kits

	Speed-Pro Notes & Specifications									
Year	Piston Type	Compression Ratio	Applicatior	n Notes	Heads	Cam Kit	Kit No.			
1984-90	Hyper	7.6 to 1	Grand National Street / Strip Pump Gas			KC-1016R	MHP-112			

Cam Kits		Valve Lift – (Int. / Exh.); Duration – (Int. / Exh.) at .050"					
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)		
1984-90	KC-1000R Hydraulic .402/.426 194°/202°	KC-1112R Hydraulic .424/ 448 194°/204°					
		KC-1016R Hydraulic .448/.472 204°/214°					

Timing Sets		Oil Pu	mps	
Year	Speed-Pro Timing Set	Year	Standard Volume	High Volume
1962-82	Billet Roller CTS-3532X9R	1984-90	224-518	224-518V
	Performance Roller CTS-1132R			



Performance Engine Kits

Chevrolet 305 Non-roller cam, w/o fuel injection

Engine Kits

	Speed-Pro Notes & Specifications						M.H.P.
Year	Piston Type	Compression Ratio	Application Notes		Heads	Cam Kit	Kit No.
1976-85	Hyper	8.7 to 1	High Torque / Towing			KC-1014R	MHP-124

Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1976-85		KC-1014R* Hydraulic .420/.442 204°/214°	KC-1013R Hydraulic .442/.465 214°/224°	KC-186R Hydraulic .480/.480 231°/231°	
		KC-1028R Hydraulic .444/.444 214°/214°	KC-179R Hydraulic .447/.447 222°/222°	KC-1168R Hydraulic .488/.488 232°/234°	
		KC-1104R* Hydraulic .414/.414 209°/209°	KC-1095R Hydraulic .450/.460 224°/224°		
			KC-1062R Hydraulic .468/.480 220°/231°		

Timing Sets		Oil Pu	mps	
Year	Timing Set	Year	Standard Volume	High Volume
1955-96	Competition Roller CTS-3600TX9R	1976-85	224-4146	224-4143
	Billet Roller CTS-3500TX9R			
	Performance Roller CTS-1100NR			

*E.O. #D292-1 Emission Legal





Chevrolet 350 Non-roller cam, w/o fuel injection

Engine Kits

	Speed-Pro Notes & Specifications							
Year	Piston TypeCompression RatioApplication NotesHeadsCam Kit					Kit No.		
1967-85	Forged	9.0 to 1	Daily Driver / Towing	5.7" rods	64cc	KC-1014R	MHP-164	
	Forged	9.75 to 1	Mega Torque / Street / Strip	5.7" rods	64cc	KC-186R	MHP-125	
	Forged	9.75 to 1	High Torque / Pump Gas	5.7" rods	64cc	KC-1014R	MHP-144	
	Hyper	9.35 to 1	Daily Driver / Towing	5.7" rods	64cc	KC-1014R	MHP-126N	
	Hyper	9.5 to 1	Mega Torque / Street / Strip	6.0" rods	64cc	KC-1062R	MHP-147	
	Hyper	10.9 to 1	Saturday Night Special	6.0" rods	64cc	KC-1146R	MHP-149	

Cam K	lits	Valve Lift – (Int. / Exh.); Duration – (Int. / Exh.) at .050"					
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)		
1967-85		KC-1014R* Hydraulic .420/.422 204°/214°	KC-1013R Hydraulic .442/.465 214°/224°	KC-186R Hydraulic .480/.480 231°/231°	KC-187R Hydraulic .509/.509 244°/244°		
		KC-1028R Hydraulic .444/.444 214°/214°	KC-179R Hydraulic .447/.447 222°/222°	KC-1168R Hydraulic .488/.488 232°/234°	KC-1146R Hydraulic .510/.533 244°/254°		
		KC-1104R* Hydraulic .414/.414 209°/209°	KC-1095R Hydraulic .450/.460 224°/224°		KC-1227R Solid .518/.540 254°/264°		
			KC-1062R Hydraulic .468/.480 220°/231°				

Timing Sets			imps	
Year	Timing Set	Year	Standard Volume	High Volume
1955-96	Competition Roller CTS-3600TX9R	1967-85	224-4146	224-4143
	Billet Roller CTS-3500TX9R			
	Performance Roller CTS-1100NR			

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*E.O. #D292-1 Emission Legal



Chevrolet 383 350 engine w/400 crank

Engine Kits

	Speed-Pro Notes & Specifications							
Year	Piston Type Compression Ratio Application Notes Heads Cam Kit						Kit No.	
	Forged	10.8 to 1	Saturday Night Special	5.7" rods	64cc	KC-186R	MHP-162	
	Hyper Hyper Hyper	9.7 to 1 10.3 to 1 11.5 to 1	Mega Torque / Street / Strip Mega Torque / Street / Strip Saturday Night Special	5.7" rods 5.7" rods 5.7" rods	64cc 64cc 64cc	KC-1014R KC-1013R KC-186R	MHP-159 MHP-160 MHP-161	

Cam Kits		Valve Lift – (Int. / Exh.)	Valve Lift – (Int. / Exh.); Duration – (Int. / Exh.) at .050"					
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)			
		KC-1014R* Hydraulic .420/.422 204°/214°	KC-1013R Hydraulic .442/.465 214°/224°	KC-186R Hydraulic .480/.480 231°/231°	KC-187R Hydraulic .509/.509 244°/244°			
		KC-1028R Hydraulic .444/.444 214°/214°	KC-179R Hydraulic .447/.447 222°/222°	KC-1168R Hydraulic .488/.488 232°/234°	KC-1146R Hydraulic .510/.533 244°/254°			
			KC-1095R Hydraulic .450/.460 224°/224°		KC-1108R Solid .540/.563 264°/274°			
			KC-1062R Hydraulic .468/.480 220°/231°		KC-1227R Solid .518/.540 254°/264°			

Timing Sets		Oil Pu	nps	
Year	Timing Set	Year	Standard Volume	High Volume
1955-96	Competition Roller CTS-3600TX9R**		224-4146	224-4143
	Billet Roller CTS-3500TX9R**			
	Performance Roller CTS-1100NR**			

I

*E.O. #D292-1 Emission Legal ** Non-Roller Cam



Chevrolet 400 small block

Engine Kits

	Speed-Pro Notes & Specifications							
Year	Piston	on Compression					Kit	
	Type	De Ratio Application Notes Heads					No.	
1970-76	Forged	9.9 to 1	Mega Torque / Street / Strip	5.565" rods	64cc	KC-1062R	MHP-120	
	Hyper	9 to 1	High Torque / Pump Gas	5.565" rods	76cc	KC-1013R	MHP-165	
	Hyper	10.1 to 1	Mega Torque / Street / Strip	5.7" rods	64cc	KC-1013R	MHP-167	
	Hyper	10.8 to 1	Saturday Night Special	5.7" rods	64cc	KC-1062R	MHP-168	

Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1970-76		KC-1014R* Hydraulic .420/.422 204°/214°	KC-1013R Hydraulic .442/.465 214°/224°	KC-186R Hydraulic .480/.480 231°/231°	KC-187R Hydraulic .509/.509 244°/244°
		KC-1028R Hydraulic .444/.444 214°/214°	KC-179R Hydraulic .447/.447 222°/222°	KC-1168R Hydraulic .488/.488 232°/234°	KC-1146R Hydraulic .510/.533 244°/254°
			KC-1095R Hydraulic .450/.460 224°/224°		KC-1108R Solid .540/.563 264°/274°
			KC-1062R Hydraulic .468/.480 220°/231°		KC-1227R Solid .518/.540 254°/264°

Timing	J Sets	Oil Pum	ıps	
Year	Timing Set	Year	Standard Volume	High Volume
1955-96	Competition Roller CTS-3600TX9R**	1970-76	224-4146	224-4143
	Billet Roller CTS-3500TX9R**			
	Performance Roller CTS-1100NR**			

*E.O. #D292-1 Emission Legal ** Non-Roller Cam



Performance Engine Kits

Chevrolet 454

Engine Kits

	Speed-Pro Notes & Specifications					
Year	Piston Type	Compression Ratio	Application Notes	Heads	Cam Kit	Kit No.
1970-90	Forged	8.4 to 1	Regular Gas / Towing / RV	107cc	KC-1015R	MHP-142
	Forged	9.0 to1	Mega Torque / Pump Gas	119cc	KC-175R	MHP-186
	Hyper	9.4 to 1	Mega Torque / Pump Gas	107cc	KC-1088R	MHP-143
	Hyper	9.3 to 1	Mega Torque / Pump Gas	119cc	KC-1015R	MHP-187

Cam Kits		Valve Lift – (Int. / Exh.)	; Duration – (Int. / Exh.) a	t .050"	
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1984-90	KC-1004R Hydraulic .439/.464 190°/200°	KC-1029R Hydraulic .459/.459 204°/208° KC-1088R Hydraulic .478/.503 204°/214° KC-1005R Hydraulic .476/.476 208°/208°	KC-1015R Hydraulic .502/.527 214°/224° KC-175R Hydraulic .500/.507 222°/235°	KC-190R Hydraulic .513/.513 230°/230°	KC-191R Hydraulic .576/.576 246°/246°

Timing Sets

Year	Timing Set
1965-98	Competition Roller CTS-3610TX9R**
	Billet Roller CTS-3510TX9R**
	Performance Roller CTS-1110NR**

Oil Pumps

*E.O. #D292-1 Emission Legal ** Non-Roller Cam





Chrysler 318

Pro 1500		Pro 2000	Pro 3000	Pro 4000	Pro 5000
Year	(Specifications)	(Specifications)	(Specifications)	(Specifications)	(Specifications)
1984-90		KC-1006R Hydraulic .420/.420 208°/208°	KC-644 Hydraulic .429/.442 210°/220°		
			KC-1019R Hydraulic .442/.465 214°/224°		
			KC-1143R Hydraulic .447/.450 222°/232°		

Timin	ig Sets	Oil Pum	ips	
Year	Timing Set	Year	Standard Volume	High Volume
1956-91	Competition Roller CTS-3603X9R	1967-88	224-4166	224-4166V
	Billet Roller CTS-3503X9R			1
	Performance Roller CTS-1103R			



Performance Engine Kits

Chrysler 360 w/o roller cam

Engine Kits

		Sp	eed-Pro Notes & S	Specificatio	ons		M.H.P.
Year	Piston Type	Compression Ratio	Application No	otes	Heads	Cam Kit	Kit No.
1971-88	Hyper	8.7 to 1	High Torque / Regular Gas		68cc	KC-1019R	MHP-179

Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
984-90		KC-1006R Hydraulic .420/.420 208°/208°	KC-644 Hydraulic .429/.442 210°/220°		
			KC-1019R Hydraulic .442/.465 214°/224°		
			KC-1143R Hydraulic .447/.450 222°/232°		

Timin	g Sets	Oil Pu	Oil Pumps			
Year	Timing Set	Year	Standard Volume	High Volume		
1956-91	Competition Roller CTS-3603X9R	1971-88	224-4166	224-4166V		
	Billet Roller CTS-3503X9R					
	Performance Roller CTS-1103R					



Chrysler 440

Engine Kits

		Spe	eed-Pro Notes & S	pecificatio	ons		M.H.P.
Year	Piston Type	Compression Ratio	Application Note	es	Heads	Cam Kit	Kit No.
1966-73 1974-78	Hyper Hyper	9.0 to 1 9.0 to 1	High Torque / Pump Gas High Torque / Pump Gas		88cc 88cc	KC-1148R KC-1148R	MHP-155 MHP-156

Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1966-78		KC-1007R Hydraulic .420/.420 208°/208°	KC-661 Hydraulic .447/.459 213°/225°	KC-1144R Hydraulic .480/.480 230°/230°	
		KC-1096R Hydraulic .420/.433 204°/214°	KC-1048R Hydraulic .455/.455 224°/224°		

Timing Sets		Oil Pun	nps	
Year	Timing Set	Year	Standard Volume	High Volume
1958-78	Competition Roller CTS-3625TX9R*	1966-78	224-4174	224-4174V
	Billet Roller CTS-3525TX9R*			
	Performance Roller CTS-1125R*			

*3 Bolt Cam



Performance Engine Kits

Ford 302

Engine Kits

	Speed-Pro Notes & Specifications					
Year	Piston Type	Compression Ratio	Application Notes	Heads	Cam Kit	Kit No.
1985-95	Forged	9.5 to 1	5.0L / Roller cam lifters	63cc	CS-195R	MHP-188
1977-84	Forged	8.7 to 1	Non roller / Pump Gas	63cc	KC-108R	MHP-171
1985-95	Hyper	9.1 to 1	5.0L / Roller cam lifters sold separately – HT2205	63cc	CS-195R	MHP-190
1977-84	Hyper	9.1 to 1	Non roller / Pump Gas	63cc	KC-1084R	MHP-189

Cam Kits		Valve Lift – (Int. / Exh.); Duration – (Int. / Exh.) at .050"				
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)	
1977-84	KC-1158R Hydraulic .424/.448 194°/204°	KC-1084R Hydraulic .450/.474 204°/214°	KC-108R Hydraulic .472/.496 214°/224°	KC-1141R Hydraulic .496/.520 224°/234°		
1985-95			CS-760 Hydraulic Roller .445/.445 210°/210°			
			CS-195R Hydraulic Roller .493/.510 212°/222°			

Timing Sets		Oil Pumps				
Year	Timing Set	Year	Standard Volume	High Volume		
1962-84	Competition Roller CTS-3635X9R*	1977-95	224-41118	224-41128		
	Billet Roller CTS-3535X9R*					
	Performance Roller CTS-1135NR*					

*Factory 1-pc. fuel pump eccentric





Ford 351W

Engine Kits

		Speed-Pro Notes & Specifications					
Year	Piston Type	Compression Ratio	Application Notes	S	Heads	Cam Kit	Kit No.
1977-91	Forged Forged	9.0 to 1 9.7 to 1	High Torque / Pump Gas Mega Torque / Street / Strip		63cc 63cc	KC-108R KC-1141R	MHP-175 MHP-192
	Hyper	9.2 to 1	High Torque / Pump Gas		63cc	KC-1084R	MHP-191

Cam Kits		Valve Lift – (Int. / Exh.); Duration – (Int. / Exh.) at .050"				
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)	
1984-90	KC-1158R	KC-1084R	KC-108R	KC-1141R		
	Hydraulic	Hydraulic	Hydraulic	Hydraulic		
	.424/.448 194°/204°	.450/.474 204°/214°	.472/.496 214°/224°	.496/.520 224°/234°		

Timing Sets		Oil Pum	nps	
Year	Timing Set	Year	Standard Volume	High Volume
1970-82	Competition Roller CTS-3621X9R	1977-91	224-41143	224-41143V
	Billet Roller CTS-3521X9R			
	Performance Roller CTS-1121R			



Performance Engine Kits

Ford 460

Engine Kits

	Speed-Pro Notes & Specifications					M.H.P.	
Year	Piston Type	Compression Ratio	Application Not	es	Heads	Cam Kit	Kit No.
1977-90	Forged	9.4 to 1	Mega Torque / Street / Strip		72cc	KC-196R	MHP-177

Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3000 (Specifications)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1977-90		KC-1155R Hydraulic .458/.484 194°/204°	KC-1159R Hydraulic .510/.536 214°/224°	KC-197R Hydraulic .522/.522 230°/230°	
		KC-1086R Hydraulic .486/.512 204°/214° KC-1012R Hydraulic	KC-196R Hydraulic .495/.495 218°/218°	KC-1160R Hydraulic .563/.588 234°/244°	

Timing Sets		Oil Pun	nps	
Year	Timing Set	Year	Standard Volume	High Volume
1968-71	Competition Roller CTS-3622X9R*	1977-90	224-41139	224-41139V
1988-92	Billet Roller CTS-3522X9R*			
	Performance Roller CTS-113522R*			

*Factory timing TDC





Pontiac 455

Cam k	Kits					
Year	Pro 1500 (Specifications)	Pro 2000 (Specifications)	Pro 3 (Specific	000 ations)	Pro 4000 (Specifications)	Pro 5000 (Specifications)
1970-76		KC-1038R Hydraulic .422/.444 204°/214°	KC-10 Hydra .442/.464	22R aulic 214°/224°	KC-1175R Hydraulic .465/.488 224°/234° KC-199R .480/.480 231°/231°	
Timin	g Sets		Oil	Pumps	•	
Year	Tir	ning Set	Year		Standard Volume	High Volume
1955-79	Competition Roller CTS-3612X9R		1970-7	6		224-43364S
	Billet Rolle	er CTS-3512X9R		1		
	Performance	Roller CTS-1112R				



Performance Kits Numerical Listings

NOTE: ALL KITS INCLUDE EKSA2 MISCELLANEOUS SERVICE ITEMS.

Part Number **Component Description**

MHP-112 Buick 231 Turbo

381-8035 1755M 6-3755AP 7144M E434K KC-1016R 224-518 H521ACP 260-1138	Brass Expansion Plug Kit Camshaft Bearing Set Connecting Rod Bearing Set Main Bearing Set Economy Piston Ring Set Cam/Lifter Kit Oil Pump Hypereutectic Piston Gasket Kit
224-518	Oil Pump
260-1138	Gasket Kit
260-4014	Valley Pan Gasket
CTS-1132R	Timing Set - 3pc

MHP-120 Chevrolet 400

Brass Expansion Plug Kit Camshaft Bearing Set Connecting Rod Bearing Set
Main Bearing Set
Economy Piston Ring Set
Cam/Lifter Kit
Oil Pump
POWERFORGED Piston
Gasket Kit
Timing Set - 3pc

MHP-124 Chevrolet 305

381-8007 1235M	Brass Expansion Plug Kit Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E356K	Economy Piston Ring Set
KC1014R	Cam/Lifter Kit
224-4146	Oil Pump
H534CP	Hypereutectic Piston
260-1024	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-125 Chevrolet 350

381-8007	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E251K	Economy Piston Ring Set
KC186R	Cam/Lifter Kit
224-4146	Oil Pump
L2256F	POWERFORGED Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

Part Number Component Description

MHP-126N		
1	Chevrolet 350	
381-8007	Brass Expansion Plug Kit	
1235M	Camshaft Bearing Set	
8-2555CP	Connecting Rod Bearing Set	
4663M	Main Bearing Set	
E251K	Economy Piston Ring Set	
KC1014R	Cam/Lifter Kit	
224-4146	Oil Pump	
H345NP	Hypereutectic Piston	
260-1000	Gasket Kit	
CTS-1100NR	Timing Set - 3pc	

MHP-142 Chevrolet 454

(

380-8009	Brass Expansion Plug Kit
1404M	Camshaft Bearing Set
8-3190A	Connecting Rod Bearing Set
4400MA	Main Bearing Set
E233K	Economy Piston Ring Set
KC1015R	Cam/Lifter Kit
224-4154	Oil Pump
L2377F	POWERFORGED Piston
260-1009	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-143 Chevrolet 454

381-8009	Brass Expansion Plug Kit
1404M	Camshaft Bearing Set
8-3190A	Connecting Rod Bearing Set
4400MA	Main Bearing Set
E233K	Economy Piston Ring Set
KC1088R	Cam/Lifter Kit
224-4154	Oil Pump
H426CP	Hypereutectic Piston
260-1009	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-144 Chevrolet 350

381-8007 1235M	Brass Expansion Plug Kit Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E251K	Economy Piston Ring Set
KC1014R	Cam/Lifter Kit
224-4146	Oil Pump
L2256F	POWERFORGED Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

Part Number Component Description

	MHP-147 Chevrolet 350
381-8007	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E458K	Economy Piston Ring Set
KC1062R	Cam/Lifter Kit
224-4146	Oil Pump
H140CL	Hypereutectic Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-149 Chevrolet 350

881-8007 235M 3-2555CP 663M 458K (C1146R 224-4146	Brass Expansion Plug Kit Camshaft Bearing Set Connecting Rod Bearing Set Main Bearing Set Economy Piston Ring Set Cam/Lifter Kit Oil Pump
24-4146	Oil Pump
1141CL30	Hypereutectic Piston
260-1000	Gasket Kit
TS-1100NR	Timing Set - 3pc

MHP-155 Chrysler 440

80-8011	Brass Expansion Plug Kit
453M	Camshaft Bearing Set
3-2320CP	Connecting Rod Bearing Set
1924MA	Main Bearing Set
424K	Economy Piston Ring Set
(C1148R	Cam/Lifter Kit
24-4174	Oil Pump
2266F	POWERFORGED Piston
260-1001	Gasket Kit
260-4019	Valley Pan Gasket
TS-1104R	Timing Set - 3pc

MHP-156 Chrysler 440

380-8011 1453M	Brass Expansion Plug Kit Camshaft Bearing Set
8-2320CP	Connecting Rod Bearing Set
5025MA	Main Bearing Set
E424K	Economy Piston Ring Set
KC1148R	Cam/Lifter Kit
224-4174	Oil Pump
L2266F	POWERFORGED Piston
260-1001	Gasket Kit
260-4019	Valley Pan Gasket
CTS-1104R	Timing Set - 3pc



NOTE: ALL KITS INCLUDE EKSA2 MISCELLANEOUS SERVICE ITEMS.

Part Number	Component Description
Γαιτινμπροι	

MHP-159 Chevrolet 383 381-8007 Brass Expansion Plug Kit 1235M Camshaft Bearing Set 8-2555CP Connecting Rod Bearing Set 4663M Main Bearing Set Economy Piston Ring Set E251K KC1014R Cam/Lifter Kit 224-4146 Oil Pump H859CP Hypereutectic Piston 260-1000 Gasket Kit CTS-1100NR Timing Set - 3pc

MHP-160 Chevrolet 383

381-8007	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E251K	Economy Piston Ring Set
KC1013R	Cam/Lifter Kit
224-4146	Oil Pump
H860CP	Hypereutectic Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-161 Chevrolet 383

381-8007	Brass Expansion Plug Kit
301-0007	DIASS EXPANSION FILLY KIL
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
E251K	Economy Piston Ring Set
KC186R	Cam/Lifter Kit
224-4146	Oil Pump
H624CP30	Hypereutectic Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-162 Chevrolet 383

381-8007	Brass Expansion Plug Kit
8-2555CP	Connecting Rod Bearing Set
4663M	Main Bearing Set
R8902	Claimer Piston Ring Set
KC186R	Cam/Lifter Kit
224-4146	Oil Pump
L2491F30	POWERFORGED Piston
260-1000	Gasket Kit
CTS-1100NR	Timing Set - 3pc

Part Number Component Description

Chevrolet 350		
381-8007	Brass Expansion Plug Kit	
1235M	Camshaft Bearing Set	
8-2555CP	Connecting Rod Bearing Set	
4663M	Main Bearing Set	
R8902	Claimer Piston Ring Set	
KC1014R	Cam/Lifter Kit	
224-4146	Oil Pump	
LW2603F30	POWERFORGED Piston	
260-1000	Gasket Kit	
CTS-1100NR	Timing Set - 3pc	

MHP-165 Chevrolet 400

381-8008	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4926MA	Main Bearing Set
E243K	Economy Piston Ring Set
KC1013R	Cam/Lifter Kit
224-4146	Oil Pump
H601P	Hypereutectic Piston
260-1016	Gasket Kit
CTS-1100NR	Timing Set - 3pc

MHP-167 Chevrolet 400

381-8008	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4926MA	Main Bearing Set
F243K	Economy Piston Bing Set
KC1013R	Cam/Lifter Kit
224-4146	Oil Pump
H615CP	Hypereutectic Piston
260-1016	Gasket Kit
CIS-1100NR	Timing Set - 3pc

MHP-168 Chevrolet 400

381-8008	Brass Expansion Plug Kit
1235M	Camshaft Bearing Set
8-2555CP	Connecting Rod Bearing Set
4926MA	Main Bearing Set
E243K	Economy Piston Ring Set
KC1062R	Cam/Lifter Kit
224-4146	Oil Pump
H616CP	Hypereutectic Piston
260-1016	Gasket Kit
CTS-1100NR	Timing Set - 3pc

Part Number Component Description

MHP-175		
	Ford 351W	
381-8015	Brass Expansion Plug Kit	
1204M	Camshaft Bearing Set	
8-3380CPA	Connecting Rod Bearing Set	
5078M	Main Bearing Set	
E251K	Economy Piston Ring Set	
KC108R	Cam/Lifter Kit	
224-41143	Oil Pump	
L2446F	POWERFORGED Piston	
260-1028	Gasket Kit	
CTS-1135NR	Timing Set - 3pc	

MHP-177 Ford 460

81-8018	Brass Expansion Plug Kit
414M	Camshaft Bearing Set
3-3360CPA	Connecting Rod Bearing Set
1907M	Main Bearing Set
296K	Economy Piston Ring Set
(C196R	Cam/Lifter Kit
224-41139	Oil Pump
_2404F	POWERFORGED Piston
260-1013	Gasket Kit
260-4005	Valley Pan Gasket
CTS-1122R	Timing Set - 3pc

MHP-179 Chrysler 360

381-8010 1484M	Brass Expansion Plug Kit Camshaft Bearing Set
8-2130CP	Connecting Rod Bearing Set
4999MA	Main Bearing Set
E251K	Economy Piston Ring Set
KC1019R	Cam/Lifter Kit
224-4166	Oil Pump
H405CPP	Hypereutectic Piston
260-1033	Gasket Kit
CTS-1103R	Timing Set - 3pc

MHP-186 Chevrolet 454

200 0000	Drees Europeien Diver Kit
380-8009	Brass Expansion Plug Kit
1404M	Camshaft Bearing Set
8-3190A	Connecting Rod Bearing Set
4400MA	Main Bearing Set
E233K	Economy Piston Ring Set
KC175R	Cam/Lifter Kit
224-4154	Oil Pump
L2399NF	POWERFORGED Piston
260-1009	Gasket Kit
CTS-1100NR	Timing Set - 3pc

Performance Kits Numerical Listings

NOTE: ALL KITS INCLUDE EKSA2 MISCELLANEOUS SERVICE ITEMS.

MHP-189

Part Number Component Description

Part Number Component Description

	Chevrolet 454	
380-8009	Brass Expansion Plug Kit	3
1404M	Camshaft Bearing Set	1
8-3190A	Connecting Rod Bearing Set	8
4400MA	Main Bearing Set	4
E233K	Economy Piston Ring Set	F
KC1015R	Cam/Lifter Kit	K
224-4154	Oil Pump	2
H693CP	Hypereutectic Piston	ŀ
260-1009	Gasket Kit	2
CTS-1100NR	Timing Set - 3pc	C

MHP-188 Ford 302

381-8015 1204M 8-2600CP 4125M E458K CS195R 224-41118 L2488F 260-1445	Brass Expansion Plug Kit Camshaft Bearing Set Connecting Rod Bearing Set Main Bearing Set Economy Piston Ring Set Cam Oil Pump POWERFORGED Piston Gasket Kit
260-1445	Gasket Kit
CTS-1138NR	Timing Set - 3pc

Ford 302		
381-8015	Brass Expansion Plug Kit	
1204M	Camshaft Bearing Set	
8-2600CP	Connecting Rod Bearing Set	
4125M	Main Bearing Set	
R8902	Claimer Piston Ring Set	
KC1084R	Cam/Lifter Kit	
224-41118	Oil Pump	
H120CP20	Hypereutectic Piston	
260-1125	Gasket Kit	
CTS-1135NR	Timing Set - 3pc	

MHP-190 Ford 302

1204M	Camshaft Bearing Set
8-2600CP	Connecting Rod Bearing Set
4125M	Main Bearing Set
R8902	Claimer Piston Ring Set
CS195R	Cam
224-41118	Oil Pump
H120CP20	Hypereutectic Piston
260-1445	Gasket Kit
CTS-1138NR	Timing Set - 3pc

Part Number Component Description

MHP-191 Ford 351W		
381-8015	Brass Expansion Plug Kit	
12041VI 8-3380CDA	Connecting Red Boaring Set	
5078M	Main Bearing Set	
E251K	Economy Piston Ring Set	
KC1084R	Cam/Lifter Kit	
224-41143	Oil Pump	
H336CP	Hypereutectic Piston	
260-1028	Gasket Kit	
CTS-1135NR	Timing Set - 3pc	








Competition Series

Competition Series gasket sets are designed to meet the needs of high output racing engines, and are highly recommended whenever your combination includes high compression, nitrous oxide, or a supercharger.

These sets feature:

- Proven race quality head gaskets with pre-flattened steel wire rings, non-stick coatings, and the sealing strength needed to withstand extreme loads and pressures
- These head gaskets will work with most popular iron cylinder heads, and will work with aluminum heads as well – with minimal brinneling
- Specialized racing intake gaskets with larger port openings to allow cylinder head modification
- All the other gaskets needed for a professional rebuild are included
- Steel core header gaskets with larger than stock port openings

Muscle Car Series

Muscle Car Series gasket sets are perfect for high performance street applications.

Sets include:

- Premium quality non-stick head gaskets which never need retorquing
- High performance intake manifold gaskets with exhaust crossover provisions
- Steel core header gaskets
- All the associated gaskets needed to complete your professional high performance engine rebuild

Optional Upgrades for Your Engine Kit

High Performance Gasket Sets

Engine	Part Number	Series	Application Notes	Head Gasket Thickness	Head Gasket Volume	Header Gasket Height	Header Gasket Width	Intake Gasket Height	Intake Gasket Width
CHEVROL	.ET					Ū		Ū	
350	260-1079	Muscle Car Series				1.50	1.50	1.99	1.23
350	260-3013	Competition Series	for stock or moderate race heads, incl. 2 intake sets	.041	9.1cc	1.50	1.50	1.99 2.21	1.23 1.34
400	260-3020	Competition Series	w/steam holes	.039	9.0cc	1.50	1.50	2.09	1.28
396, 427, 454	260-1081 260-1717	Muscle Car Series Muscle Car Series	rectangle port oval port			1.88 1.88	1.88 1.88	2.54 2.05	1.82 1.82
396, 427, 454	260-3015	Competition Series	rectangle and oval port includes 2 intake sets	.041	10.9cc	1.88	1.88	2.54 2.05	1.82 1.82
502 (Mark V)	260-3024	Competition Series	rectangle port incl. 1 pc. rear seal	.039	10.9cc	1.88	1.88	2.54	1.82
CHRYSLE	R								
440	260-3004 260-4035	Competition Series valley pan intake		.039	9.9cc	1.84	1.33	2.27 2.27	1.23 1.23
FORD									
289, 302	260-1082 260-1720	Muscle Car Series Muscle Car Series	'62-82 engines '86-92 5.0L H.O. engines upper EFI gaskets not incl.			1.48 1.48	1.25 1.25	2.00 2.00	1.20 1.20
289, 302	260-3005	Competition Series	'62-82 engines includes 2 intake sets	.041	9.0cc	1.48	1.25	2.00 2.10	1.20 1.28
289, 302	260-3022	Competition Series	'83-92 5.0L H.O. engines upper EFI gaskets not incl.	.041	9.0cc	1.48	1.25	2.00	1.20
351C	260-3007	Competition Series	4 bbl. heads	.041	9.2cc	2.19	1.89	2.65	1.88
351W	260-3009	Competition Series	'69-82 engines	.041	9.0cc	1.48	1.25	2.10	1.28
390, 427, 428	260-3026	Competition Series	fits Std. & CJ heads; incl. 2 intake & 2 exhaust sets	.041	10.1cc	2.04 2.12	1.40 1.43	2.34 2.10	1.40 1.40
429, 460	260-3025	Competition Series	fits Std. & CJ heads; incl. 2 intake & 2 exhaust sets	.041	11.2cc	2.10 2.35	1.50 1.55	2.26 2.60	1.98 2.24
PONTIAC									
389, 400, 455	260-3027	Competition Series	fits Std., Ram Air, SD455 includes 2 exhaust sets		9.4cc	1.92 1.88	1.46 1.88	2.20	1.18





AMC – Tech Highlights

While they have been out of production for quite a while, the engines produced by AMC are still frequently found in a number of Jeeps, as well as in restored and modified Javelins and AMX's from the muscle car era. The scarce nature of these engines mean that the AMC enthusiast will be spending some time searching swap meets and salvage yards for parts. This can be a challenge, but American Motors V8 engines share characteristics with many of the more popular engines produced by GM and Ford, and will respond well to basic modification techniques.

All AMC V8's share a common base design, thus a 304 engine can easily be swapped for a larger 360 or 401. Cubic inches are hard to beat – make the swap if you can, since performance horsepower levels are much easier to come by with the larger engines. The "dog leg" heads found on later engines are generally considered superior to earlier rectangular port versions, and should be considered a necessary part of a performance package.

Like the Buick, AMC engines use a timing cover mounted oil pump, which is serviced by replacing the internal gears with a "pump kit." When replacing these parts, particular attention must be paid to the condition of the timing cover casting. Covers with scoring or visible wear will have a detrimental effect on oil pressure, and should be replaced. Timing cover mounted oil pumps are the only design that requires packing with petroleum jelly to aid in oil pump priming. The timing set is also worthy of careful inspection. Jeep engines produced in 1979 and later use a new timing set that may have been installed as a service part on earlier engines – the newer timing set is NOT a heavy duty replacement, and should not be used in performance engines.

We offer POWERFORGED pistons for the 401 engines. The L2380F and L2381F are designed for street performance use in the 401 engine. Ductile iron Plasma-Moly Speed-Pro rings are available for these engines, and should be strongly considered wherever severe use or poor fuel quality may be encountered. The O.E. Replacement engine bearings for the AMC are of tri-metal construction, and should be more than adequate for most applications.

Most of these engines are going into relatively low RPM vehicles for off-road and street performance, thus the selection of camshafts, compression ratios, carburetion, and exhaust components should be on the conservative side. Low end torque, throttle response, and fuel tolerance are of major importance in the off road environment.



Buick V6 Tech Highlights

The Buick V6 has been in production for many years, but became noted as a performance engine with the introduction of the popular "Grand National." This turbocharged muscle car was a dominant force in the mid-eighties, and created a new interest in V6 performance. We offer a variety of components for these engines, whether turbocharged or naturally aspirated.

Key determining factors when selecting pistons for these engines are the presence of a turbocharger, and the crankshaft design, which may be either "odd fire" or "even fire." The odd fire version uses a crankshaft with three equally spaced rod journals which results in a stronger crankshaft, but a rougher running engine. The even fire design uses a smaller offset journal for each rod providing smoother driving characteristics. The latter style is found in most applications.

Turbocharged engines require that particular attention be paid to the compression ratio and to the strength of the piston. Any efforts to increase performance through additional boost will put greater strain on components and may increase the chances of detonation and subsequent engine damage. Engines that are computer controlled may not realize the full benefit of modifications if the computer is forced to retard timing in order to protect the engine. Fuel quality will play a major part in determining performance in such engines. In most cases, turbocharged engines require lower compression than do naturally aspirated ones. Compression ratios in this catalog are calculated with an .0375 gasket thickness.

Our 107M racing bearing set for the V6 Buick has been upgraded with a 3/4 oil groove. This provides enhanced lubrication for the rod bearings.

Also worthy of special attention is the oil pump, which is built into the timing cover assembly. Scoring or other damage to the housing will require a new timing cover. High volume pump kits are available, using a spacer to increase the depth of the pump. Be particularly careful to install the spacer and gaskets correctly, as their combined thickness must provide the required pump rotor to cover clearance.

Buick V8 Tech Highlights

The Buick V8 can be an excellent engine for street performance. While not seen often at the track, the 455 engines are among the best when optimized for low end and midrange torque. They were used in the factory "Stage 1" cars in the early 70's, and most available performance parts are based around a similar combination. Our hypereutectic pistons are among the first "new" parts to be released for these engines in many years, and will fill the need for those restoring or modifying these cars. They deliver a moderate compression ratio, which is well suited for today's unleaded premium fuels. Our POWERFORGED pistons, along with Speed-Pro rings and bearings, were used in the assembly of an aluminum headed 455 Buick covered in Car Craft magazine – and helped generate 555 horsepower and 574 lb.-ft of

torque - running on 92 octane.

The camshaft we offer for the Buick engine has been selected to complement our hypereutectic pistons, and delivers an excellent street performance package when properly tuned. As manufactured, these engines are not really intended for high RPM, so pay close attention to the valve train during assembly. New rockers, pushrods, and rocker arm retainers are good insurance. Maintain at least an additional .060 of valve spring travel at maximum valve lift, and check for adequate piston to valve clearance.

The oil pump is built into the timing cover assembly, similar to the design of the V6. Any scoring or damage to the housing will require a new timing cover. High volume pump kits are available, using a spacer to increase the depth of the pump. Be particularly careful to install the spacer and gaskets correctly, as their combined thickness must provide the required pump rotor to cover clearance. Due to the design of these oil pumps, and their distance from the pickup point in the oil pan, they must be packed with petroleum jelly to ensure priming before initial engine fire-up. A superior alternative would be the use of a pressurized pre-oiler device.



Small Block Chevrolet – Tech Highlights

HIGHLIGHTS

ENGINE BUILDER

The small block Chevy is the most popular engine in the enthusiast market. It is the engine for which the greatest assortment of parts are available, and is the one most enthusiasts are likely to be familiar with. As a result, it is possible to assemble an engine that will meet virtually any specific need. The guys at Chevy High Performance magazine used Speed-Pro pistons, rings and bearings to assemble one 350 engine that survived over 1000 dyno pulls, and eventually kicked out over 500 horsepower. They put together another one that made nearly 400 horsepower – running on low cost 87 octane regular gas. There are still a few areas that require special attention, some of which could cause problems even for an experienced engine builder.

One potential problem area is in the stock valvetrain. Like many small blocks, the Chevy has a relatively short valve spring installed height. The spring diameter is also small at 1.25". These dimensions make it difficult to increase spring pressure and travel for performance cams. All standard diameter small block Chevy springs listed in our catalog are designed to work at an installed height of 1.69", +/the difference that our retainers make. You MUST have an additional .060" of spring travel available at maximum valve lift. We offer chrome-moly spring retainers that provide additional installed height over that of the stock part. This allows the popular VS739R spring to work with cams that would otherwise cause it to approach coil bind. While this definitely works, machining the cylinder heads to accept larger diameter double spring combinations is well worth the added effort. Just remember that this is a task for a skilled machinist, as some O.E. Chevy heads are very thin in the spring pocket area.

On small bore engines the use of exhaust valves larger than 1.58", or intake valves larger than 1.88" may require the cylinder bores to be notched for clearance. Other critical areas to check include piston to cylinder head interference, piston deck clearance, and valve to piston clearance. Connecting rod bolt to camshaft interference can occur in stroker engines using the 400 crank, and should be checked and remedied if found during an engine test assembly. The counterweights on some 3.75" stroke cranks – particularly the currently popular imported units, have been known to contact the bottom of some pistons. Again – check before final assembly.

Camshaft selection can be very critical in computer controlled vehicles. Overlap, duration, and resulting manifold vacuum must be carefully considered when making your selection. Some systems are less forgiving than are others, and may require recalibration of the computer to deliver acceptable performance. Few such combinations will meet emission legal standards. We do have a selection of cams that have been granted E.O. numbers for carbureted applications, making them street legal in all 50 states. This legality does not mean that they will meet driveability goals without vehicle and/or computer modification.

Valve to piston clearance is dependent upon piston dome configuration, camshaft and valvetrain characteristics, and cylinder head design. Check clearance and make modifications if it is less than .100". Check whenever changing cams, pistons, cylinder heads, valve sizes, or rocker arm ratios. Valve to piston contact does not occur at maximum valve lift – never assume that you are "OK" at any given lift value. The clearance is reduced if you mill the heads or go to 1.6:1 rockers, and will change if you advance or retard the cam timing. Valve to piston contact will destroy your engine, so check carefully before trying new parts!

Piston to cylinder head contact can be a problem in some engines. The piston domes are designed to work with various factory cylinder heads that were available at the time of initial development. The vast array of aftermarket heads now offered, along with the extensive modifications being made, can create problems unless interference is detected and corrected during the trial assembly of the engine. Clearances of .050-.060, including gasket thickness, should be considered the absolute minimum.

Unless assembled by a professional, deck clearance will be the result of tolerance stack-up rather than careful planning. This dimension is critical to getting the desired compression ratio. A common problem is determining whether a block's deck surface has been previously machined. If you are not sure of the block's past, have your machinist check the actual deck height before ordering pistons. Many small block Chevrolets have been rebuilt repeatedly over the years, and it is not uncommon to find one that has seen multiple machining operations.

Compression ratios and deck clearances in this catalog were calculated with a gasket thickness of .038, and an uncut 9.025" factory block height. Many of the resulting ratios will differ from factory "advertised" data. We have not changed the pistons, but are using a more realistic approach to stating compression ratios, using several popular cylinder heads. Gasket thickness and deck clearance will vary by manufacturer and application, use the compression ratios in this catalog as a comparative guideline.



Big Block Chevrolet – Tech Highlights

The Big Block Chevrolet has become the standard for any application that demands brute power: serious street machines, heavy duty towing, and numerous classes of racing competition. These large displacement engines are quite forgiving – a fairly wild package will still deliver reasonable driveability if carefully tuned. In a recent Car Craft magazine article, a pump gas fueled 454 Chevy using Speed-Pro pistons, rings, and bearings delivered an impressive 533 horsepower and 565 lb-ft of torque. At the races you will often see the racer and the tow vehicle using this same basic engine design. Despite the big block's popularity, there remain a few areas that require careful attention to ensure success.

One of the strengths of the Chevy big block is also a source of much confusion. The variety of cylinder heads and pistons available allows the selection of parts that may not be compatible. While we can apply some general rules, the ONLY way to be sure that your chosen combination will work is to check piston to head clearance during the engine's trial assembly, and then to modify the piston domes if needed. The general break point is in the use of "open" versus "closed" chamber type cylinder heads. If you are not sure which you have, check with an experienced machinist.

Flat top pistons are usually safe with any cylinder head. Some domed pistons, such as the L2240NF for 396's, the L2383F for 402's, or the L2300F for 427's, can have their domes machined off, which lowers the compression ratio and allows the use of most available cylinder heads. Pistons designed for closed chamber use, such as the L2328F for 396/402 engines, the L2349F for 454's, or the L2239NF and L2268F for the 427, may also work with open chamber heads, but you MUST check piston to head clearance due to cylinder head variations. Pistons intended for open chamber heads usually will not work with closed chamber heads unless they are modified significantly. Examples include the L2465F and the L2399F, both are intended for use in 454 engines having open chamber type heads. Using pistons designed for your heads is better than trying to make others work.

Modification of pistons will make them ineligible for return, so be sure of your work. There are definite limits to the amount of material you can remove without compromising the strength and durability of the piston. Do not assume that all pistons can be modified. Many are too thin to allow major dome alterations. The Federal-Mogul Tech Line can answer questions regarding the amount of material that can be safely removed. Carefully read the Piston Guidelines section of this catalog before making your piston selection.

Compression ratios and deck clearances listed in this catalog are calculated figures, not factory "advertised" numbers. The information shown for various O.E. combinations may differ from data published in the past. The compression ratio information now reflects the actual "as installed" condition. All compression ratios are calculated using a standard uncut block dimension, and a gasket thickness of .0385". Another piston related area of concern is the possibility of interference between the piston skirt and the crankshaft counterweights. This is a common problem in some 454 engines, and may occur with either O.E. or aftermarket crankshafts. The solution involves machining down the outside diameter of the counterweights and balancing the assembly.

When installing a performance camshaft, the primary concerns are the clearances between pistons and valves, and the prevention of valve spring coil bind. Piston to valve clearance must be at least .100", and must be checked when making a change to the cam, cam timing, pistons, heads, or rockers. Valve springs must have an additional .060" of available travel at maximum valve lift, or they will bind at operating speeds. VSS-7504R is a special spacer to replace valve rotators, which are not recommended for high performance use. Long slot or roller rockers are often required – check for adequate clearance between the rocker and the stud at full valve lift.

The big block Chevy uses different length pushrods for the intake and the exhaust. Guide plates are required, and must match the diameter of the pushrods that are being used. When using steel billet roller cams it is necessary to use both a thrust button and a bronze distributor gear. If you experience premature cam wear, check for improper lifter bore alignment and/or excess lifter bore clearance. Both situations have become fairly common in big block Chevy engines. Finally, it is important to note that 1965 and 1966 engines require that a 3/16" groove be machined into the center of the rear cam journal for proper lubrication. Absence of this groove will result in engine failure. Use the 1404M cam bearing set if using a grooved journal cam in a later model block.



Small Block Chrysler – Tech Highlights

The small block Chrysler has been in continuous production for over thirty years, and is found in several displacements. The 273" was used in some performance packages in the mid-sixties, but is rarely found today. The more popular 318", 340", and 360" are the engines covered in this catalog. The 318" is suitable for mild performance usage, but potential is limited in comparison to the other two. The 340" was the high performance small block engine in Chrysler's "muscle cars," many race oriented performance upgrades for the small block Chrysler were developed for this particular engine. The 360" is more readily available than the 340", offers better potential than the 318", and is recommended for most street performance applications.

When choosing pistons for these engines, pay particular attention to cylinder head selection. There are a wide variety of heads available, and these will dictate which piston to use. Most of the pistons offered are flat tops that use various compression distances to deliver a desired compression ratio when used with a particular cylinder head. The high compression 340" engines often have positive deck heights, with the pistons protruding about .018 out of the block. This condition mandates careful inspection of piston to head and piston to valve clearances, and requires that "decking" of the block be held to a minimum. For 360 engines, our new H116CP is a fully CNC machined, skirt coated hypereutectic piston that delivers a deck clearance of .015 and a compression ratio between 9.5 and 10.0 to 1. In comparison, many other engine combinations possible within this group place the piston fairly low in the cylinder, and respond well to deck machining for increased compression.

The compression ratios listed in this catalog are referenced to a single head gasket thickness of .039, and to an uncut factory block's deck height. The pistons have not been changed, but the variables have been eliminated, thus the ratios shown may differ from those previously published. The resulting ratios, whether for Hypereutectic or POWERFORGED pistons, can be directly compared to one another. The cylinder head volumes we used are also for reference only, as the chamber volume of factory heads will vary by 3 or 4 cc's from specifications in most cases. Unless you measure both actual deck clearance and chamber volume, you cannot accurately determine the compression ratio.

The 318" is considered easy to "overcam," be conservative when selecting a cam for one of these engines. An adjustable valvetrain is available for this family, and is required when using roller or solid lifters, as well as with any hydraulic lifter cam which has a small base circle design. Pay particular attention to valve spring installed height, which is rather short in these applications, and to the potential coil bind conditions which can occur. There must be at least .060 of additional spring travel available at maximum valve lift. Also be cautious when installing the rocker arm assemblies, as the rocker arms are not identical and must be installed in the correct position. Rocker shafts must be assembled with oiling holes facing downward to ensure proper lubrication.



Big Block Chrysler – Tech Highlights

The big block engine from Chrysler was offered in two basic styles, the "B" designated engines having a shorter deck height than did the "RB" types. In the former group are the 383" and 400"; the 426" and 440" are in the latter. Most external engine parts, cylinder heads, and valvetrain related components are interchangeable between the two groups. While the 426" engines, whether "Hemi" or "Wedge," are scarce collector's items today, the others are readily available and make excellent street or race packages when properly prepared. The 440" is easily the best engine to use for performance, in this case bigger really is better. A recent engine build-up in Car Craft magazine included a Speed-Pro piston, ring and bearing equipped 440 that churned out 535 horsepower and a whopping 583 lb.-ft of torque – on pump gas.

One key determining factor in piston selection will be the cylinder head chosen. Contrary to previously published data, only two wedge style cylinder head chamber configurations are commonly found within this engine family. The closed chamber heads, with a volume of approximately 78.5 c.c., were used in 1967 and earlier vehicles. The most desirable of these were from the 1967 440HP. These feature larger exhaust valves and carry a "915" designation. The open chamber heads average around 88 c.c., and are found on all '68 & later applications. The preferred version of this design was found on 1968-70 engines. Identified as the "906" castings, these heads have a better port configuration than do the later "emission" heads. The old information that indicated a wider variety of chamber volumes for these engines was based upon reported "minimums," established for the use of certain race sanctioning bodies. These were intended to give the Chrysler racer a competitive edge in tightly controlled racing classifications and events.

The compression ratios in this catalog have been recalculated to reflect real world data, using a single reference head gasket of .0375 in. thickness. Deck clearances are calculated from the standard, uncut factory block deck height. The pistons have not been changed! All that has changed is the use of a more realistic approach in stating the compression ratio. Many original muscle car engines never actually had the high compression ratios which they were credited with. Cylinder heads vary from specifications widely, checking their true volume and measuring actual deck clearance is the only way to accurately determine your compression ratio. Since many Chrysler engines use large deck clearances, it is possible to mill the block to raise compression.

One other area requiring special attention when building a 440 is in the balancing method used by the factory. While most of the engines are "internally balanced," the versions using the six pack rods (P/N 2951908) or a cast crankshaft (1975-78) are "externally balanced," and require a specific balancer and flywheel. This is also true of the 1970-71 383 2bbl. and the 1972-78 400 engines.

Camshafts for big block Chryslers used one of two timing gear retention methods; either the single bolt type and the three bolt type. Service timing sets generally use the single bolt design. When using roller or solid lifter cams an adjustable valvetrain is necessary. This conversion will require both the rocker arms and a set of matching pushrods. You must have an additional .060" of valve spring travel available at maximum cam lift, and maintain a minimum of .100" piston to valve clearance.



Small Block Ford – Tech Highlights

HIGHLIGHTS

ENGINE BUILDER

The small block Ford has been produced in cubic inch displacements ranging from 221 to 351. As original equipment in the popular 5.0L Mustang GT, it has been received considerable attention these last few years. The current version shares most of its basic architecture with its predecessors, but has undergone some changes that the engine builder must consider. Below is a brief listing of potential pitfalls and recommendations for assembly of one of these engines.

The greatest shortcoming of the small block Ford is the O.E. cylinder head design, which is somewhat restrictive, particularly on the exhaust side. While both Ford and the performance aftermarket have responded to the need for higher flowing heads in recent years, the average small block still responds well to camshaft and head modifications that enhance exhaust flow. With O.E. heads, a modification strategy that targets low end and midrange torque, instead of high RPM power, will yield the greatest benefits. Such items as small tube headers, dual plane intakes, lower CFM carburetors, and fairly conservative camshafts are advised for street use. Ford's Mustang GT package successfully used a similar approach, with the emphasis on power production up to about 4500RPM.

When you install a performance camshaft in a small block Ford, pay particular attention to the valve spring and retainer combination used. On some of these engines the factory valve rotator and spring combination barely allow enough clearance for the stock cam, let alone a performance unit. Valve rotation devices are not recommended for performance applications, and should be deleted from the cylinder head assembly. Also be aware that there may be differences in valve spring installed heights on various heads – and sometimes on the same head! The VS896R springs should be installed where a 1.70" height is required, while the VS1555 should be used for a 1.82" height. Do not install these springs at the opposite heights, as performance will definitely be compromised.

Camshafts using the 302 or 351W firing orders are interchangeable, provided that the spark plug and E.F.I. harness wiring is rerouted to match the selection made. Many small block Ford engines which are computer controlled are very sensitive to camshaft alterations. This is particularly true of the "speed density" type computer systems found on late eighties Ford trucks and some Mustang GT's. Be very conservative when choosing a performance cam for one of these vehicles unless you are prepared to make computer upgrades.

There are two critical clearances that apply to camshaft and valve spring installation. The valve spring must have an additional .060" of travel available at maximum valve lift, and there must be at least .100" of piston to valve clearance. These critical clearances will be affected if you change the rockers, mill the cylinder heads, or alter cam timing!

Another area of concern is the variety of deck heights with which these engines were produced. The 302 engines from 1973 through 1976, along with the 351 engines built after 1972, have a deck height that is .023" higher than that of units made in other years. Since deck height has a direct impact on the engine's compression ratio, it is important to determine which one you have before ordering parts. It has been a fairly common practice to surface all blocks to a single standard, so an actual measurement may be necessary, especially if it is unknown whether the engine has been previously rebuilt. Compression ratios and deck clearances listed in this catalog are calculated figures, reflecting an uncut O.E. block and a .039" thick head gasket. These are to be used as a reference only – your engine's dimensions will likely be different, and should be checked before assembly.

When selecting pistons, be aware that the stock block employs a thin wall casting. They should not be bored more than .040" oversize. Using 351 Windsor heads on an earlier 302 engine will improve airflow, but lowers the compression ratio, so chose pistons accordingly. The ready availability of small chamber volume, high flow aftermarket heads have driven a move away from domed pistons. We now offer several high quality flat top style pistons that deliver great performance in these engines. The H120CP is a new lightweight, two valve relief hypereutectic piston that includes our exclusive DUROSHIELD skirt coating. We also have the LW2488F, a POWERFORGED piston that features reduced weight, 1/16-1/16-3/16 ring grooves, and drilled oil drainbacks for improved skirt rigidity. It and also comes with DUROSHIELD skirt coating, for less friction, longer life and more power potential. Either piston represents a solid upgrade from the original parts - at a very reasonable cost.



Ford 351C – Tech Highlights

The 351 "Cleveland" was a short lived series of engines that first appeared in 1970. While it has the same displacement as the 351 "Windsor" motor, they share very few parts. The Cleveland engine came in two basic styles, with the four barrel version having much larger ports and valves than the two barrel variation. The four barrel heads are often considered overkill for many street applications, while the two barrel versions have moderate performance potential. The 351C was original equipment in several factory muscle cars, most notably the 1971 Boss 351. Many parts developed for this package are still available, and form the basis for high performance upgrades to this engine family.

In a situation similar to that of the big block Chevy, the Cleveland can be found with either "open" or "closed" chamber cylinder heads. The piston dedicated to the open chamber version is P/N L2408F. Do not use this piston in closed chamber applications due to potential cylinder head interference. Our other pistons can be used with either type head.

The 351M and 400 are "tall deck" variations of the Cleveland engine, introduced in response to changes in emission regulation and intended engine use. While neither one appeared in a high performance version, many of their components are similar to those of the 351C. Pistons are not directly interchangeable between engines, due to the different compression heights required. The area of greatest potential trouble in the assembly of these engines lies in the variety of valvetrain parts used in the cylinder heads. Depending upon the origins of your heads, you may find either an adjustable or a nonadjustable valvetrain, along with any combination of single and multigroove valve stem locks. If not originally equipped, the adjustability feature can be added to your heads by machining the rocker pedestal pads and installing studs and guide plates.

The single and multigroove stem valves are interchangeable, as long as you use the matching locks and retainers. Normally you would use the VSR7015R retainer with multigroove locks, and the VSR7017R retainer with the single groove type.

When building a high performance Cleveland engine the cylinder head design dictates the rest of the package. The four barrel heads work best at a high RPM level. The rest of the parts should be chosen to match this characteristic, with emphasis placed upon improving the somewhat restrictive exhaust side flow. If using the two barrel heads, you should concentrate on low and midrange enhancement, with smaller headers and carb than would be required for the four barrel headed variation.

Four barrel intake manifolds are readily available for the "two barrel" head engines, so don't be mislead by the description. This may be the better combination for regular street use.



"FE Series" (390, 427, 428) Big Block Ford – Tech Highlights

This family of engines includes the 390, the 427, and the 428, all which are found in performance applications. The latter two are quite different, despite the similarity in displacement. The 428 was the basis for the "Cobra Jet", package found in Mustangs and Fairlanes from 1968 through 1970. This engine's long stroke enhances low-end torgue and makes for an excellent street package. The 427 is a higher RPM, large bore/short stroke engine that was the mainstay of Ford's race efforts in the mid-60's. The 427 engines have become collectors' items in recent years, and are rarely seen in active competition. The 390 is a smaller bore engine which shares the 427's short stroke. It was produced in large quantities for passenger car use, as well as for truck applications through 1975, and is the most common of the three. Newly available aftermarket engine blocks and heads have renewed interest in the FE engine series, particularity for use in replicas of the Cobra sports car. The continuous strong presence of 428CJ equipped cars in NHRA Stock and Super Stock ranks (where they regularly run 9 to 10 second quarter mile times) is a testimonial to the power potential of the FE engine.

Many parts such as heads or crankshafts can be interchanged between engines in this family, but carefully check for interference between valves, pistons, and the block if you stray from the factory combinations. When building an FE engine for street performance or towing it is best to emphasize low RPM torque, rather than high-speed power. When using most common O.E. cylinder heads, these engines respond well to fairly small tube headers, conservative carburetor sizes, and camshaft selections that target a 6000 RPM maximum. This is particularly true of the 390 engines. If you are fortunate enough to obtain a set of expensive and rare Medium Riser, Hi-Riser, or Tunnel Port heads these RPM limitations will not apply, but higher engine speeds will require modifications to the crankshaft, rods and valvetrain to improve durability. (The large valve heads noted above would not fit on small bore engines such as the 390). Both the 428CJ and aftermarket aluminum heads have great street and strip power potential, though when used on a 390 they will lower the compression ratio a bit.

The compression ratios shown in this catalog are calculated figures, not factory advertised numbers, and may vary from previously published data. We have not changed the piston dome volumes, only the way in which we calculated the ratios. The deck clearance and compression ratio calculations are based on an uncut factory block and a .041" head gasket. All FE engines have full floating piston pins from the factory. Our L2291F pistons for the 390, and the L2303F pistons for the 428CJ, are being upgraded to include an enhanced appearance and our unique DUROSHIELD skirt coating.

When camshaft selection and vehicle use becomes more race track oriented, the valve train should be upgraded. Any FE engine can be converted to an adjustable valve train through use of the proper rocker arms and pushrods. The adjustable rockers have a slightly higher ratio than do the nonadjustable ones, so check piston to valve and valve spring clearances when making this change. Stock replacement rocker shafts are prone to breakage in racing use; thus stronger aftermarket parts may be required. Also recommended are "end stands" which support the outer portion of the shafts. Some of the lower output engines came with two piece valve spring retainers, which should be replaced for performance use.

When using solid or roller lifters in these engines it is common to block off or restrict the oiling to the lifter galleys. The factory 427's with solid lifters did not directly oil the lifters, so this should not be a problem. Another frequently seen oiling modification is matching of the main oil passages to the holes in the bearings. These are frequently offset by quite a bit from the factory. It is also common to open up the inlet passage at the oil pump mounting area to match the outlet on the pump. Whether these changes really help is open to debate, but they certainly don't hurt. Our 125M main bearing set features a 3/4 oil groove configuration, which will definitely enhance oiling. The recently released "Genesis" aftermarket block requires our 1268M cam bearing set.



429, 460 Big Block Ford – Tech Highlights

This engine family first appeared in 1969, as a replacement for the FE Series of engines. Since 1976 this design has been the basis for all of Ford's large displacement V8s. The engines most familiar to the performance enthusiast are the 429 and the 460. The former was available in a number of high output versions, including the "Cobra Jet", and "Super Cobra Jet", while the latter is best known as the power plant for full size luxury cars and pickup trucks. Recent years have seen increasing numbers of enthusiasts combining the two, using the high performance components developed for the 429 on the larger displacement engine to make a potent street performance package. This trend has been accelerated through the support of both the factory and the aftermarket, as a steady flow of new high performance heads and blocks have been released. A good cylinder head design, along with a block configuration which permits creation of very large displacement engines, allows this design to deliver excellent power potential for either street or track use.

When building one of these engines, the target application will dictate the components to use. The "bigger is better" philosophy applies here, and few people will build a 429 if their situation allows them to go with a 460. Both engines share the same cylinder bore, thus a 429 can be converted to a 460 by changing the crankshaft and pistons. Some 429 engines used forged cranks, but trading some high RPM strength for an additional thirty cubic inches is a good move in most applications.

Cylinder heads interchange between engines in this family. Vehicles expected to operate at low RPM, such as trucks used for towing, should avoid the 429 CJ or SCJ heads, which have ports too large for such applications. Most pre-'72 heads will have provisions for an adjustable valve train. Later model heads with fulcrum mounted rockers can be converted to the earlier adjustable stud type with fairly basic machine work. If you choose to do this, the studs, rockers, and pushrods

used in the earlier engines will be required. These changes are required if you are intending to use a solid or a roller lifter cam.

Engine block deck heights within this group changed from year to year, with three different ones being common. This height will affect piston deck clearance, and will have a significant impact on the resulting compression ratio. If unsure of the vintage of the block being used, or if there has been machine work done in the past, check this height carefully before selecting pistons. It has been a common machine shop practice to mill these blocks to a single height; thus many late model engines end up having higher compression than was anticipated.

Our recently released LW2602F flat top POWERFORGED piston delivers a street friendly 9.4:1 compression ratio with 92cc cylinder heads. The same piston will deliver a 10.94:1 ratio when run with popular 72cc Cobra Jet heads. Domed pistons may require modification if they are to be used with certain cylinder heads. The assortment of heads available, along with the variations between castings, make it necessary to "clay check" the clearance between heads and pistons during a trial assembly. You cannot simply assume that a given piston will work with any given head. Flat top pistons are usually compatible with all heads, providing that the combined gasket thickness and deck clearance is equal to or greater than .040". Valve to piston clearance may be a problem with some performance cams, and should always be checked. The recommended minimum is .100". Valve to piston clearance will be affected if the block or heads are milled, or if cam timing is advanced or retarded after engine assembly. Careful inspection is the ONLY way to be sure that your components will work together.



Oldsmobile – Tech Highlights

The Oldsmobile V8 can be modified for excellent street or track performance with careful planning and attention to the overall combination. Both large and small block iterations use similar components, including a common cylinder head layout. The small block engine is not often found in today's performance applications, although the factory offered a high powered W-31 version. Big block W-30 455s were among the strongest packages available during the musclecar era. The basic 455 engines are fairly common, having been used in many passenger cars, and form the basis for most high output Oldsmobiles. These engines generate considerable torque, and are at their best when optimized for low and midrange power. The recent availability of aftermarket aluminum cylinder heads for the Olds V8 has significantly raised the level of interest in these engines. The folks at Car Craft magazine recently assembled a pump gas 455 Olds using Speed-Pro pistons, rings, and bearings. The finished engine delivered 496 horsepower and an impressive 558 lb.-ft of torque.

Oldsmobile O.E. cylinder heads are commonly identified by a letter cast into the exhaust side of the head. The most desirable heads include those with the letters C, D, F, or H. While most of these heads will physically bolt on to any Oldsmobile block, pay close attention to valve size and chamber volume when selecting the ones to use with your combination. A cylinder head with large valves may lessen street driving performance in smaller engines. As produced, Olds cylinder heads use a non-adjustable valve train where rockers are paired with a common pivot "bridge". The O.E. aluminum bridge has been known to break in service. We offer both the original style and a three piece unit with separate fulcrums and a steel connector.

As in any performance engine rebuild, you should pay close attention to clearances. The minimum piston to valve clearance is .100". Piston to cylinder head clearance minimum is approximately .040". The valve springs must have an additional .060" of available travel at maximum valve lift to prevent coil bind. Piston to valve clearance must be inspected whenever you mill the block or heads, change cams, or alter cam timing. Our CS176R cam has the original profile for the W-30 package, and is the largest Speed-Pro cam that is practical for a street driven vehicle. This cam is marginal with power accessories.

Identification of Oldsmobile engines can be a challenge, as many of them were externally marked at the factory with only a paper tag on the oil filler tube. These tags are often missing by the time the engine falls into the hands of an enthusiast. Check the bore diameter and crankshaft stroke to be sure of the engine you are working on prior to ordering parts. It is not unusual to find 455 Oldsmobile engine blocks with cracks around the motor mount area, and along the water jackets on the deck surface. These areas should be carefully inspected prior to machine work. Cracks in these areas are difficult, if not impossible to properly repair. Our racing main bearing set for these engines, part number 108M, has been upgraded to include a 3/4 oil groove. This design enhances rod bearing lubrication.



Pontiac V8 – Tech Highlights

The Pontiac V8 was the powerplant for a whole generation of "muscle cars", including the GTO and the Firebird Trans Am. The increasing popularity of muscle cars has renewed interest in the rebuilding and modification of these engines. The performance aftermarket has responded by re-releasing many older products, and concurrently designing several new items. Finding the parts necessary to put together a good running Pontiac should not be a problem. Since the 350, 400, and 455 engines are physically interchangeable, most Pontiac enthusiasts will eagerly step up to the big cubic inch variation – unless they are restoring an original car.

In response to this renewed enthusiasm, we have updated our Pontiac POWERFORGED pistons with improved machining and our unique friction reducing DUROSHIELD skirt coating. We have also released racing main bearings for both the 400 and the 455 featuring our unique groove design and our patented H14 overplate alloy. The recent availability of aftermarket aluminum heads has further spurred interest in Pontiac high performance. An aluminum head equipped Pontiac 455 was recently assembled by the staff at Car Craft magazine. This project engine used Speed-Pro pistons, rings, and bearings to kick out 501 horsepower and a staggering 575 lb.-ft of torque.

Pontiac cylinder heads will physically interchange among the various engines, but careful attention must be paid to the piston to combustion chamber clearances. Pontiac used a wide variety of combustion chamber volumes to achieve the desired compression ratios and characteristics, some pistons may not be compatible with the heads you select. The good news in this situation is that it is easy to lower or raise the compression ratio by swapping cylinder heads, as long as important clearances are maintained. One other critical issue in Pontiac cylinder head repair is related to valve length. When Pontiac changed the chamber volumes, they would shorten or lengthen the valves as required to maintain valve train geometry. This means that otherwise identical engines with different compression ratios will require different length valves! Since many of these engines have been previously rebuilt or replaced, the only way to be sure of getting the right length valves is to compare and measure your old valves prior to ordering replacements. The original valve train in most Pontiac engines is a positive stop, non-adjustable type, which requires that the rockers be tightened to a specified torque against a step on the rocker stud. The heads can be converted to allow adjustment by changing studs and using rocker adjustment locks.

There are a couple of important notes regarding some the pistons we've supplied for the 455 Pontiac. The L2423F piston was designed to work with the Super-Duty forged connecting rod. If it is to be used with other rods, the area between the pin bosses must be opened up to 1.360". Our L2394F piston was originally designed for the Super-Duty or H.O. heads, but has since been redesigned to be compatible with other heads.

As in any engine, the Pontiac requires careful attention to clearances throughout the assembly. A minimum of .050" should be maintained between the piston dome and the cylinder head. Piston to valve clearance should be at least .100". These clearances will change if you mill the block or heads, use 1.65 ratio rockers, changes cams, or alter cam timing – check them carefully before running any new parts!



PERFORMANCE CAMS

AMC L6

232; 258 Eı	232; 258 Engines														
	CAM &	CAM	IDLE	POWER	DURA	VALV	e lift	LOBE							
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP					
CS-1069R	KC-1069R	Pro-2000	Smooth	1500-4000	208/208	280/280	.421	.421	112	56					
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-2011 VS-741R VSR-7007 VK-138R	(Std.) HT-2011F 7R	R (Race)										



PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E.	Replaceme	ent Valve					
258 Er	ngines						
Exh	aust						
	1.406 1.406	V-2023 V-2205	.3720 .3720	4.892 4.892	44 44	21-4N 21-2N	1964-80; w/o rotators; 4 groove stem 1981-90; 1 groove stem
Inta	ke						
	1.787 1.787	V-1981 V-2206	.3720 .3720	4.899 4.899	29 30	SIL-1 1547	1964-80; 4 groove stem 1981-90; 1 groove stem
Valve	e Guide - N	langanese E	Bronze				
		VG-7004R VG-7503R	.3725 .3725	2.375 2.500			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal
Valve	Stem Sea	al					
		ST-2004	.3710				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2019R	.3720				PTEE: .531 guide dia.; Installation requires valve guide machining



PERFORMANCE PISTONS

AMC V8 SPEED-PRO POWERFORGED Pistons 401 Engines (4.165 Bore x 3.680 Stroke) Dome Shape: .170 dish Rings: 5/64, 5/64, 3/16 Con Rod Length (in): 5.858 Pin Style: Press Compression Distance (in): 1.505 Pin Diameter (in): 1.000 Deck Clearance (in): .000 Pin Weight (grams): 173 Skirt Clearance (in): .0020 **Compression Ratio by Cyl Head CC** SPEED-PRO Ring Set Part # Piston Dome Piston Set Fitted Lock CID Weight Volume Plasma-Moly Plasma-Moly Moly Part # 50.6 56.50 58.00 58.60 Pin Ring ------(grams) (cc) Rings **Direct Fit Rings** File Fit Rings 605 610 L-2380NF 30 10.56 9.95 -27.5 E-302K 30 N/R 407 9.81 9.76 --------Yes 409 L-2380NF 40 10.61 10.00 9.85 9.80 -27.5 E-302K 40 Yes N/R

Application Notes: DUROSHIELD® skirt coated piston

PERFORMANCE ENGINE BEARINGS



ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
290; 304;	343; 360 Engines				
Rod Set					
	O.E. Replacement	8-3310CPA	Overplated Copper-Lead Alloy		Std-10-20-30-40
Main Set					
	O.E. Replacement	5037M	Overplated Copper-Lead Alloy		Std-1-10-20-30
Cam Set					
	O.E. Replacement	1401M	Babbitt	Full round design	Std Only
390; 401	Engines				
Rod Set					
	O.E. Replacement	8-3385CP	Overplated Copper-Lead Alloy		10-30
Main Set					
	O.E. Replacement; 1970-78 O.E. Replacement; 1968-69 390	4950M 5037M	Overplated Copper-Lead Alloy		10 Std-1-10-20-30
0					0.0 1 10 20 00
Cam Set	O.E. Replacement	1401M	Babbitt	Full round design	Std Only

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES								
304; 360; 3	304; 360; 390; 401 Engines										
Oil Pump Scre	en O.E. Replacement	224-14161									
Oil Pump Kit	O.E. Replacement	224-51285									

PERFORMANCE CAMS

304; 360; 401 Engines														
	CAM &	CAM	IDLE	POWER	DURA	ATION	VALV	e lift	LOBE					
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP				
CS-1026R	KC-1026R	Pro-2000	Smooth	1500-4000	204/214	280/290	.448	.472	110	55				
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-2011 VS-741R VSR-7007 VK-138R	(Std.) HT-2011F 7R	R (Race)									

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	A	IGLE M	IATERIAL	NOTES				
0.E. I	O.E. Replacement Valve											
304 En	igines											
Exh	aust 1.406	V-2023	.3720	4.892	44	2	21-4N	1971-80				
inta	1.787	V-1981	.3720	4.899	29	S	SIL-1	1971-80				
360 En	igines											
Exh	aust											
	1.625 1.680 1.680	V-1830 V-1980 V-2024	.3710 .3710 .3721	4.918 4.929 4.909	45 44 44	2 2 2	21-2N 21-2N 21-4N	1970-72; 1 groove stem 1973-74; w/Rotocap; 1 groove stem 1972-76; w/o rotocap; 4 groove stem				

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).





PRO

SPEED PRO



PERFORMANCE VALVES

AMC V8 - cont'd.

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E.	Replacem	ent Valve					
360 Er	ngines						
Inta	ike						
	2.015 2.026	V-1831 V-1979	.3715 .3719	4.899 4.898	29 30	8645 EN-52	1970-72; 1 groove stem 1973-76; 4 groove stem
390 Er	ngines						
Exh	naust						
	1.625	V-1830	.3710	4.918	45	21-2N	
Inta	ike						
	2.015	V-1831	.3715	4.899	29	8645	
401 Er	ngines						
Ext	naust						
	1.680	V-1980	.3710	4.929	44	21-2N	1973-74; w/Rotocap; 1 groove stem
Inte	1.680	V-2024	.3721	4.909	44	21-4N	19/1-78; w/o rotocap; 4 groove stem
Inta	2 015	V-1921	2715	4 900	20	9615	1071 72: 1 group stom
	2.026	V-1979	.3719	4.898	30	EN-52	1973-78; 4 groove stem
Valve	e Guide - N	langanese l	Bronze				
		VG-7004R VG-7503R	.3725 .3725	2.375 2.500			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal
Valve	e Stem Sea	al					
		ST-2002	.3710				Rubber/PTFE insert; .625 guide dia.; Installation requires
		ST-2004	3710				valve guide machining Bubber/PTEE insert: 562 guide dia : Installation requires
		01 2004	.5710				valve guide machining
		ST-2019R	.3720				PTFE; .531 guide dia.; Installation requires valve guide machining



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
304; 360;	390; 401 Engines			
Push Rods				
	RP-3212R RP-3212R 100 RP-3212R 150 RP-3212R 200	Hardened Chrome Moly Hardened Chrome Moly Hardened Chrome Moly Hardened Chrome Moly	5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia.	304; 360; 401; Stock length 304; 360; 401; +.100 in length 304; 360; 401; +.150 in length 304; 360; 401; +.200 in length
Rocker Arms	3			
	R-875	Stock Type		1973-78; Incl. 2 rockers, 2 pivots, 1 bridge
	MR-1839	Pivot		
	MR-1840	Bridge		



Buick V6

SPEED-PRO Hypereutectic Pistons

231 Engines (3.800 Bore x 3.400 Stroke)



Dome Shape: .255 dish Con Rod Length (in): 5.950 Compression Distance (in): 1.800 Deck Clearance (in): .088 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.939 Pin Weight (grams): 156

	Diston Sat	Co	mpress	ion Rati	o by C	yl Head C	С	Piston	Dome	SPE	ED-PRO Ring Set	Part #	-	11
CID	Part #	48.0			-			Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
231 234 235 236 239	H521ACP H521ACP 20 H521ACP 30 H521ACP 40 H521ACP 60	7.57 7.63 7.66 7.69 7.74	 	 	 	 	 	506 516 521 526 536	-24.0 -24.0 -24.0 -24.0 -24.0	E-434K E-434K 30 E-434K 40 	 R-10499 30 	 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #													
231 234 235 236 239	WH521ACP WH521ACP 20 WH521ACP 30 WH521ACP 40 WH521ACP 60	7.57 7.63 7.66 7.69 7.74	 	 	 	 	 	506 516 521 526 536	-24.0 -24.0 -24.0 -24.0 -24.0	The ring se numbers al	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R		

Application Notes: Turbo; DUROSHIELD® skirt coated piston



Dome Shape: .190 dish; 4 reliefs Con Rod Length (in): 5.950 Compression Distance (in): 1.855 Deck Clearance (in): .033 Skirt Clearance (in): .0012 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.939 Pin Weight (grams): 156

	Diston Sot	Cor	npressi	on Rati	o by Cy	I Head C	C)	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Leek
CID	ID Part #	48.0						Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
231	H522CP	9.55						547	-14.0	E-369K			Yes	N/R
235	H522CP 30	9.67						562	-14.0	E-369K 30	Yes	N/R		
236	H522CP 40	9.71						567	-14.0	E-369K 40	Yes	N/R		
	Singe Piston Part #													
231	WH522CP	9.55						547	-14.0	The ring of	The side search lists of feasily a UDistance Ostill search			N/R
235	WH522CP 30	9.67						562	-14.0	The ring se	on Set part	Yes	N/R	
236	WH522CP 40	9.71						567	-14.0	numbers al	pistons.	Yes	N/R	
Application Notes: Non-Turbo; DUROSHIELD® skirt coated piston														

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



Buick V6 - cont'd.

SPEED-PRO Hypereutectic Pistons

252 Engines (3.965 Bore x 3.400 Stroke)

Dome Shape: .276 dish Con Rod Length (in): 5.950 Compression Distance (in): 1.808 Deck Clearance (in): .083 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.939 Pin Weight (grams): 165



	Diston Sot	Co	mpress	ion Rati	o by Cy	/I Head C)C	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Citta d	Lask
CID	Part #	48.0					-	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
256 257 260	H471CP 30 H471CP 40 H471CP 60	7.79 7.82 7.88	 	 		 	 	577 582 592	-30.0 -30.0 -30.0	E-408K 40	 	 	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
256 257 260	WH471CP 30 WH471CP 40 WH471CP 60	7.79 7.82 7.88	 	 	 	 	 	577 582 592	-30.0 -30.0 -30.0	The ring set numbers als	Yes Yes Yes	N/R N/R N/R		

Application Notes: Turbo; DUROSHIELD® skirt coated piston

SPEED-PRO POWERFORGED Pistons

231 Engines (3.800 Bore x 3.400 Stroke)

Dome Shape: .245 dish Con Rod Length (in): 5.950 Compression Distance (in): 1.825 Deck Clearance (in): .063 Skirt Clearance (in): .0035 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.939 Pin Weight (grams): 156



	Diaton Sat	Cor	npressi	ion Rati	o by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	48.0			-			Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
231	L-2481F	7.87						558	-24.5	E-434K			Yes	N/R
235	L-2481F 30	7.96						574	-24.5	E-434K 30	R-10499 30		Yes	N/R
236	L-2481F 40	7.99						578	-24.5	E-434K 40			Yes	N/R
	Singe Piston Part #													
231	WL-2481F	7.87						558	-24.5	The ring oo	to listed for the "Dist	on Cot" port	Yes	N/R
235	WL-2481F 30	7.96						574	-24.5	The fing se		un Ser part	Yes	N/R
236 WL-2481F 40	WL-2481F 40	7.99						578	-24.5	numbers as	so service the single	e pistons.	Yes	N/R
	Application Notes: Turbo: DUBOSHIFI D [®] skirt coated piston													

PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
231; Even	n Fire Engines				
Rod Set	O.E. Replacement	6-3760A	A-Series aluminum bearings		Std-1-10-20-30-40
	Competition Series	6-7120CH	Super Duty Alloy	Steel Cranks; Length735	Std-1-10

PERFORMANCE ENGINE BEARINGS

Buick V6 - cont'd.

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
231; Eve	n Fire Engines - cont'd.				
Main Set					
	O.E. Replacement; 1977-87 VIN Code "A' Competition Series	7144MA 107M	A-Series aluminum bearings Super Duty Alloy	3/4 Groove	Std-10-20-30-40 Std-1-10
Cam Set					
	O.E. Replacement; w/20 Bolt Oil Pan	1755M	Babbitt		Std Only
231; Odd	Fire Engines				
Rod Set					
	O.E. Replacement	6-2500RAA	A-Series aluminum bearings		Std-10-20-30-40
Main Set					
	O.E. Replacement; 1975-1991 VIN Code "C"	7144MA	A-Series aluminum bearings		Std-10-20-30-40

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
231; 252 E	Engines		
Oil Pump Scr	reen		
	O.E. Replacement	224-128	Compare to O.E. screen for correct application; 5 1/2" deep pan
Oil Pump Kit			
	O.E. Replacement Thrust Plate Kit High Volume	224-518 224-518TP 224-518V	Incl. screws, gaskets, and instructions

PERFORMANCE CAMS

231; Even Fire Engines											
CAM &		CAM	IDLE	POWER	DURATION		VALVE LIFT		LOBE		
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP	
CS-1016R	KC-1016R	Pro-2000	Good	1500-4000	204/214	280/290	.448	.472	112	51	
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-969 (VS-677 VSR-7023 VK-115R	Std.) HT-969R ((Race)						

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. I	Replacem	ent Valve					
231 En	igines						
Exh	aust	V 4100	0.400	4 710	45	01 41	
Inta	1.500 ke	V-4168	.3408	4.718	45	21-4N	1979-88 Exc. VIN Code "C"; 1989 3.8-7
	1.710	V-2117	.3407	4.713	45	SIL-1	1979-88 Exc. VIN Code "C"; 1989 3.8-7
252 En	igines						
Inta	ke						
	1.710	V-2117	.3407	4.713	45	SIL-1	
Valve	Guide - I	Manganese I	Bronze				
		VG-7005R VG-7501R	.3435 .3415	2.500 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal

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thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).











PERFORMANCE VALVES

Buick V6 - cont'd.

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
Valve	Stem Sea	I					
252 En	gines						
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining

VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
231; 252	Engines			
Push Rods				
	RP-3164 RP-3164 35 RP-3164 60	Stock Type Stock Type Stock Type	5/16 dia. 5/16 dia. 5/16 dia.	Stock length +.035 in length +.060 in length
	RP-3213R	Hardened Chrome Moly	5/16 dia.	8.690 in length
Rocker Arm	s			
	R-870	Stock Stamped Type		Exh. 1-3-4-6; Int. 2-5
Rocker Arm	Retainer			
	MR-1829	Stock Type	Nylon	For rocker arm retention
Thrust Butto	ons			
	MR-1874	Stock Type		1984-88 VIN Code "3"; 1986 VIN code "B"
Timing Com	ponents			
0	222-359	Timing Chain		Exc. for 1988-90 Vin Code "C" 1990-94 VIN Code "L"; Single roller
	223-610	Cam Sprocket	Silent Type	Even Fire Engs. w/o cam sensor
	223-323	Crank Sprocket	1 Keyway	Both Eng. types; Exc. '86-94 VIN Codes "3", "C" & "L"; Single roller
Complete Ti	ming Sets			
-	ČTS-1132R	Performance Roller; .250" Double Roller	3 Keyway	For cams w/o integral distributor drive
	CTS-3532X9R	Billet Roller; .250" Double Roller	9 Keyway	For cams w/o integral distributor drive

PERFORMANCE PISTONS



Buick V8

SPEED-PRO Hypereutectic Pistons

455 Engines (4.312 Bore x 3.900 Stroke)





Dome Shape: .130 dish; 4 reliefs Con Rod Length (in): 6.600 Compression Distance (in): 1.985 Deck Clearance (in): .040 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.999 Pin Weight (grams): 223

	Diston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	
CID	Part #	58.9	66.0	68.0	69.0	71.0	77.5	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	LOCK Ring
455	H392NCP		9.58	9.43	9.35	9.20	8.76	771	-23.0	E-289K			Yes	N/R
462	H392NCP 30		9.69	9.53	9.46	9.31	8.86	786	-23.0	E-289K 30		R-5883 35	Yes	N/R
464	H392NCP 40		9.73	9.57	9.49	9.34	8.89	791	-23.0	E-289K 40			Yes	N/R
469	H392NCP 60		9.80	9.64	9.56	9.41	8.96	801	-23.0	E-289K 60			Yes	N/R
	Singe Piston Part #													
455	WH392NCP		9.58	9.43	9.35	9.20	8.76	771	-23.0				Yes	N/R
462	WH392NCP 30		9.69	9.53	9.46	9.31	8.86	786	-23.0	The ring set	ts listed for the "Pis	ton Set" part	Yes	N/R
464	WH392NCP 40		9.73	9.57	9.49	9.34	8.89	791	-23.0	numbers als	so service the sinal	e pistons.	Yes	N/R
469	WH392NCP 60		9.80	9.64	9.56	9.41	8.96	801	-23.0				Yes	N/R
	Application Notes													

Application Notes: DUROSHIELD® skirt coated piston

SPEED-PRO POWERFORGED Pistons

455 Engines (4.312 Bore x 3.900 Stroke)



Dome Shape: .156 x 3.610" dia. dish Con Rod Length (in): 6.600 Compression Distance (in): 1.975 Deck Clearance (in): .050 Skirt Clearance (in): .0025 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.999 Pin Weight (grams): 223

	Diston Sat	Co	Compression Ratio by Cyl Head CC					Piston Dome		SPEED-PRO Ring Set Part #			Fitted	Lask
CID	Part #	58.9	66.0	68.0	69.0	71.0	77.5	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
460 464	L-2353F 30 L-2353F 40		9.15 9.18	9.01 9.04	8.94 8.98	8.81 8.84	8.41 8.44	762 768	-27.8 -27.8	E-289K 30 E-289K 40		R-5883 35 	Yes Yes	N/R N/R
	Singe Piston Part #													
460 464	WL-2353F 30 WL-2353F 40		9.15 9.18	9.01 9.04	8.94 8.98	8.81 8.84	8.41 8.44	762 768	-27.8 -27.8	The ring set numbers als	is listed for the "Pisi so service the single	ton Set" part e pistons.	Yes Yes	N/R N/R
	Application Notes: DUBOSHIELD® skirt coated piston													

PERFORMANCE ENGINE BEARINGS



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PERFORMANCE ENGINE BEARINGS

Buick V8 - cont'd.

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
350 Engi	nes - cont'd.				
Cam Set	O.E. Replacement	1422M	Babbitt		Std Only
455 Engi	nes				
Rod Set					
	O.E. Replacement Competition Series	8-3320CP 8-7260CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-10-20-30 Std-10
Main Set					
	O.E. Replacement Competition Series	4664M 157M	Overplated Copper-Lead Alloy Super Duty Alloy	3/4 Groove	Std-10-20-30 Std-1-10
Cam Set					
	O.E. Replacement	1422M	Babbitt		Std Only



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES	
350 Engin	es			
Oil Pump Kit				
	O.E. Replacement Thrust Plate Kit High Volume	224-518 224-518TP 224-518V	Incl. screws, gaskets, and instructions	
455 Engin	es			
Oil Pump Kit				
	O.E. Replacement Thrust Plate Kit	224-519 224-518TP	Use O.E. relief spring P/N 1233892 for Stage 1 Incl. screws, gaskets, and instructions	

PERFORMANCE CAMS

400; 455 Engines										
	CAM &	CAM	IDLE	POWER	DURATION		VALVE LIFT		LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1165R		Pro-3000	Good	1500-4500	214/224	290/300	.469	.493	112	61
Hydraulic		LIFTERS VALVE SPRING LOCKS	HT-969(VS-1582 VK-97	Std.) HT-969R ((Race)					



PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES			
0.E.	O.E. Replacement Valve									
400 Er	ngines									
Exh	naust									
	1.625	V-1799	.3725	5.162	45	21-2N	1967-69			
Inta	ike									
	2.000	V-1800	.3725	5.137	45	1047	1967-69			
455 Er	ngines									
Exh	naust									
	1.625	V-1799	.3725	5.162	45	21-2N	1970-74; Exc. Gran Sport, Stage 1			
Inta	ike						· · ·			
	2.000	V-1800	.3725	5.137	45	1047	1970-76; Exc. Gran Sport, Stage 1			

PERFORMANCE VALVES

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thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons
may require professional installation and/or machining (see Application Notes).

Bui	ck	V8	cont'd.	
ENIQUE			D/N	0

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES		
Valve Guide - Manganese Bronze									
455 En	gines								
		VG-7007R VG-7503R	.3725 .3725	2.625 2.500			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal		
Valve	Stem Seal								
		ST-2002 ST-2004	.3710 .3710				Rubber/PTFE insert; No cutter required Rubber/PTFE insert; .562 guide dia.; Use w/VG-7503R		

VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
350 Engii	nes			
Push Rods				
	RP-3214R	Hardened Chrome Moly	5/16 dia.	
Timing Sets				
5	KT3-359S	3 Piece set	1 Keyway	Incl. cam & crank sprocket and chain; Single roller
Complete Ti	ming Sets			
	CTS-1132R	Performance Roller; .250" Double Roller	3 Keyway	
	CTS-3532X9R	Billet Roller; .250" Double Roller	9 Keyway	
350; 455	Engines			
Rocker Arms	S			
	R-870	Stock Stamped Type		Exh. 1-4-5-8; Int. 2-3-6-7
Rocker Arm	Retainer			
	MR-1829	Stock Type	Nylon	For rocker arm retention
455 Engii	nes			
Push Rods				
	RP-3179	Stock Type	5/16 dia.	9.390 in length

PERFORMANCE CAMS

Chevrolet L4

Chevrolet I 6

•••••••										
181 Marine Engines										
	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1068M		Marine	Smooth		204/204	281/281	.443	.443	109	57
Hydraulic LIFTERS HT-817 (Std.) HT-817R (Race)										
		APPLICATION NO	1E3: GIVI INO. 2	110019; Std. rotation	i; 115 H.P., 13	ы п.г., 140 г	I.P.			

PERFORMANCE ENGINE BEARINGS

Onev					
ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
230; 25) Engines				
Main Set					
	O.E. Replacement	4124MA	A-Series aluminum bearings		Std-1-10-20-30-40-60









OIL PUMPS AND ACCESSORIES

Chevrolet L6 - cont'd.

••.				
PRODUCT	FEATURES	P/N	NOTES	
230; 250	Engines			
Oil Pump				
	O.E. Replacement High Volume	224-4147 224-4157		



PERFORMANCE CAMS

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230; 250 Engines										
	CAM &	CAM	IDLE	POWER	DUR	TION	VALVE LIFT		LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1033R		Pro-1500	Smooth	1000-3500	194/204	272/282	.464	.490	110	45
Hydraulic LIFTERS VALVE S RETAINE LOCKS		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-739R VSR-7000 VK-115R	Std.) HT-817R(DR	(Race)					



PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES				
0.E. F	O.E. Replacement Valve										
230; 25	230; 250 Engines										
Exh	aust 1.500	V-1904	.3414	4.928	45	21-4N					
inta	1.720	V-1927	.3413	4.917	45	SIL-1					
Valve	Guide - Ma	inganese E	Bronze								
		VG-7002R VG-7501R	.3435 .3415	2.375 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal				
Valve	Stem Seal										
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires				
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires				
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining				



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
230; 250 E	Ingines			
Push Rods	RP-3214R	Hardened Chrome Moly	5/16 dia.	
Rocker Arms	B-832	Stock Type	1 7 Batio	
Rocker Adjus	tment Locks MR-1860PL	3/8 Stud Diameter		For stock style ball pivot rockers
Rocker Studs	MR-1752	.003 Oversize Press-In		For stock rockers
	MR-1862RS	3/8 H/D Screw-In		
Timing Comp	onents 221-2528S	Timing Gear Set	1 Keyway	2 pc. Set; Incl. cam & crank gear; Single roller

PERFORMANCE PISTONS



Chevrolet V6

SPEED-PRO Hypereutectic Pistons

4.3L; (262) Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .045 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144

	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	viston Dome SPEED-PRO Ring Set Part #				E 111 - 1	
CID	Part #	48.0	50.0	55.0	58.0	65.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
262	H645NCP					9.17		536	-5.0	E-459K			Yes	N/R
265	H645NCP 20					9.25		546	-5.0	E-459K 20			Yes	N/R
266	H645NCP 30					9.28		551	-5.0	E-459K 30			Yes	N/R
268	H645NCP 40					9.32		556	-5.0	E-459K 40			Yes	N/R
270	H645NCP 60					9.39		566	-5.0	E-459K 60		Yes	N/R	
	Singe Piston Part #													
262	WH645NCP					9.17		536	-5.0				Yes	N/R
265	WH645NCP 20					9.25		546	-5.0	The ring of	to listed for the "Dist	on Cotl nort	Yes	N/R
266	WH645NCP 30					9.28		551	-5.0	numbers also service the single pistons.			Yes	N/R
268	WH645NCP 40					9.32		556	-5.0				Yes	N/R
270	WH645NCP 60					9.39		566	-5.0		Yes	N/R		
	And institute National DUDOOUUSI De shirt as and aliater													

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149

CID Piston Set	Piston Set	Compression Ratio by Cyl Head CC						Piston	Dome	SPEED-PRO Ring Set Part #				Lask
	Part #	48.0	50.0	55.0	58.0	65.0		Weight (grams)	/eight Volume prams) (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
265	H645ACP 20					9.16		539	-6.9	E-229K 20			Yes	Not Incl.
266	H645ACP 30					9.20		544	-6.9	E-229K 30			Yes	Not Incl.
268	H645ACP 40					9.24		549	-6.9	E-229K 40			Yes	Not Incl.
	Application Notes: DUROSHIELD [®] skirt coated piston; Use w/Lock Ring LR-63													

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



PERFORMANCE PISTONS

Chevrolet V6 - cont'd.

SPEED-PRO Hypereutectic Pistons

4.3L; (262) Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149



CID	Piston Set Part #	Co	mpress	ion Rati	io by Cy	I Head C	00	Piston	Dome SPEED-PRO Ring Set Part #					Lock
		48.0	50.0	55.0	58.0	65.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
265	H645DCP 20					9.16		539	-6.9	E-229K 20			Yes	Not Incl.
266	H645DCP 30					9.20		544	-6.9	E-229K 30			Yes	Not Incl.
268	H645DCP 40					9.24		549	-6.9	E-229K 40			Yes	Not Incl.

Application Notes: DUROSHIELD® skirt coated piston; Use w/Lock Ring LR-63

PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES					
2.8L (173)	Engines									
Rod Set										
	Competition Series	7025CH	Super Duty Alloy	2.000 Journal	Std Only					
Main Set										
	O.E. Replacement; 1980 - Early '85	5090MA	A-Series aluminum bearings		Std255075-1.00MM					
4.3L (262) Engines										
Rod Set										
	Competition Series	6-7085CH	Super Duty Alloy		Std-1-10					
Main Set										
	O.E. Replacement	5085M	Overplated Copper-Lead Alloy		Std-1-10-20-30-40					
Cam Set										
	O.E. Replacement	1463M	Babbitt	Full round design	Std-1					



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
2.8L (173)	Engines		
Oil Pump			
	O.E. Replacement High Volume High Volume	224-4148 224-43389V 224-4148V	Pass.; Exc. 2.8-1; Incl. shaft, screen S-10; Pass. 2.8-1, 2.8S
Oil Pump Scr	reen		
	O.E. Replacement O.E. Replacement O.E. Replacement	224-14232 224-1348 224-1148	1986-88 4WD S-10; Pass. Exc. 2.8-1, 2.8S 1988-86 S-10 2WD Pass.; Exc. 2.8-1; 2.8S
Pump Shaft			
	O.E. Replacement	224-6148	
3.3L (200)	; 3.8L (229) Engines		
Oil Pump			
	O.E. Replacement High Volume	224-4146 224-4143	Requires 224-6146E shaft

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog

OIL PUMPS AND ACCESSORIES

Chevro	olet V6 - cont'd.		
PRODUCT	FEATURES	P/N	NOTES
3.3L (200);	3.8L (229) Engines - cont'd.		
Oil Pump Scre	en		
Duran Ohaft	O.E. Replacement	224-1246	
Pump Shaft	O E Poplosoment	224 6146	
	O.E. Replacement	224-6146E	Heavy Duty; w/Integral steel guide
	Shaft Guide	224-43343	Nylon
4.3L (262)	Engines		
Oil Pump			
•	O.E. Replacement	224-4146	
Oil Pump Scre	en		
	O.E. Replacement	224-1246	
Pump Shaft			
	O.E. Replacement Shaft Guide	224-6146 224-43343	Nylon

PERFORMANCE CAMS

173 (2.8L)	Engines									
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1087R CS-1032R	KC-1032R	Pro-2000 Pro-2000	Good Good	1500-4000 1500-4000	204/214 208/208	278/288 280/280	.422 .420	.444 .420	112 110	51 60
Hydraulic		LIFTERS RETAINER LOCKS	HT-2095 VSR-700 VK-115R	(Std.) 0 R						
4.3L (262)	Engines									
CS-1049M		Marine	Smooth		202/207	269/271	.404	.414	112	45
Hydraulic		LIFTERS APPLICATION NO	HT-817 (TES: GM No. 1	Std.) HT-817R (4095789; Std. rotatic	(Race) on					
CS-1030R	KC-1030R	Pro-2000	Good	1500-4500	202/213	269/284	.410	.410	113	52
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-739R VSR-700 VK-115R	Std.) HT-817R (0R	(Race)					
CS-1051M		Marine	Smooth		202/213	270/284	.404	.410	112	55
Hydraulic Roller		LIFTERS APPLICATION NO	HT-2148 TES: GM No. 1	(Std.) 4096233; Std. rotatio	on					

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES					
0.E. F	O.E. Replacement Valve											
173 (2.	8L) Engines											
Exh	aust 1.425 1.425	V-2290 V-2431	.3413 .3136	4.736 4.736	45 45	21-4N 21-4N	1982-85 ''Z''; '85-89 Camaro, Firebird, Fiero; '86-93 Truck 1987-89 ''W''					
Inta	ke 1.598 1.718 1.718	V-2173 V-2291 V-2432	.3410 .3413 .3140	4.697 4.705 4.705	45 45 45	1547 SIL-1 SIL-1	1980-81; 1982-85 Truck; 1982-84 Firebird, Camaro 1982-85 "Z"; '85-89 Camaro, Firebird, Fiero; '86-93 Truck 1987-89 "W"					

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thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).







14



Che	evrolet \	/6 - cont'c	l.				
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. I	Replaceme	nt Valve					
229 (3.	8L) Engines						
Exh	aust 1.500	V-1904	.3414	4.928	45	21-4N	
inta	1.839	V-2143	.3410	4.912	45	SIL-1	
262 (4.	3L) Engines						
Exh	aust 1.500	V-1904	.3414	4.928	45	21-4N	
Inta	ke 1.940	V-1926	.3414	4.880	45	SIL-1	
Valve	Guide - Ma	inganese I	Bronze				
		VG-7002R VG-7501R	.3435 .3415	2.375 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal
Valve	Stem Seal						
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2003	.3410				valve guide machining Rubber/PTFE insert; .531 guide dia.; Installation requires valve guide machining
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
2.8L (173)	Engines			
Push Rods				
	RP-3207	Hardened Stock Type	5/16 dia.	
Rocker Arms				
	R-1024R R-1025R	Stamped Steel Roller Stamped Steel Roller	1.5 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in studs Use w/3/8 H/D screw-in studs
	MR-1822			4 groove pivot ball
Rocker Studs				
	MR-1883	O.E. 10mm Screw-In		For stock rockers
	MR-1862RS	3/8 H/D Screw-In		For stock or roller rockers
3.3L (200);	3.8L (229); '86-'8	5 4.3L (262) Engines		
Guide Plates				
	MR-1896	Flat	5/16 Push Rods	
Push Rods				
	RP-3212R RP-3212R 100	Hardened Chrome Moly Hardened Chrome Moly	5/16 dia. 5/16 dia.	Stock length + .100 in length
	RP-7001R	Hardened Chrome Moly; One Piece	5/16 dia.	Stock length
Rocker Arms				
	R-865R	Stamped Long Slot	1.5 Ratio	
	RR-7000R RR-7001R RR-7002R RR-7003R	Aluminum Roller Aluminum Roller Aluminum Roller Aluminum Roller	1.5 Ratio 1.5 Ratio 1.6 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud
	RR-7020R RR-7022R RR-7023R	Stainless Steel Roller Stainless Steel Roller Stainless Steel Roller	1.5 Ratio 1.5 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 7/16 H/D screw-in stud
	MR-1822	4 Groove		Anti-gall



Chevrolet V6 - cont'd.

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
3.3L (200); 3.8L (229);	'86-'85 4.3L (262) Engine	s - cont'd.	
Rocker Adju	ustment Locks			
-	MR-1858PL MR-1860PL	3/8 Stud Diameter 3/8 Stud Diameter		For roller rockers For stock style ball pivot rockers
	MR-1859PL MR-1861PL	7/16 Stud Diameter 7/16 Stud Diameter		For roller rockers For stock style ball pivot rockers
Rocker Stud	ds			
	MR-1752	.003 Oversize Press-In		For roller rockers
	MR-1863RS MR-1865RS	3/8 H/D Screw-In 3/8 H/D Screw-In		For stock or roller rockers For stock style ball pivot rockers
	MR-1867RS	7/16 H/D Screw-In		For roller rockers; .750 head end depth
	MR-1868RS	7/16 - 14 mounting threads;	7/16 - 20 stud threads	Special universal rocker arm stud
Complete T	iming Sets			
	CTS-1100NR CTS-1100R	Performance Roller; .250" D Performance Roller; .250" D	ouble Roller3 Keywayouble Roller3 Keyway	Exc. Factory roller cam; Exc. 4.3 w/Balance Shaft Exc. Factory roller cam; Exc. 4.3 w/Balance Shaft; When depleted use CTS-1100NB
	CTS-1145R	Performance Roller; .250" D	ouble Roller 3 Keyway	4.3 w/o balance shaft; Factory roller cam
	CTS-3500TX9R	Billet Roller; .250" Double Re	oller 9 Keyway	Incl. roller thrust brg.; Exc. Factory roller cam; Exc. 4.3 w/Balance Shaft
	CTS-3545X9R	Billet Roller; .250" Double Re	oller 9 Keyway	4.3 w/o balance shaft; Factory roller cam
	CTS-3600TX9R	Competition Roller; Premium .2	50" Double Roller 9 Keyway	Incl. roller thrust brg.; Exc. Factory roller cam; Exc. 4.3 w/Balance Shaft
	CTS-3645X9R	Competition Roller; Premium .2	50" Double Roller 9 Keyway	4.3 w/o balance shaft; Factory roller cam

PERFORMANCE PISTONS

Chevrolet Gen III V8

16

SPEED-PRO Hypereutectic Pistons

346 LS1 Engines (3.897 Bore x 3.620 Stroke)



Dome Shape: Flat Con Rod Length (in): 6.098 Compression Distance (in): 1.328 Deck Clearance (in): .010 Skirt Clearance (in): .0015 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press Pin Diameter (in): 0.945 Pin Weight (grams): 151

	Diston Sot	Co	Compression Ratio by Cyl Head CC						Dome	SPEEL	D-PRO Ring Set	Part #	Filled	Lask
CID	Part #			66.0				Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
346 349	H868CP H868CP .25MM			10.10 10.19				447 451	0.0 0.0	E-938K E-938K 25MM	Yes Yes	N/R N/R		
	Singe Piston Part #													
346 349	6 WH868CP 10.10 447 0.0 The ring sets listed for the "Piston Set" 9 WH868CP .25MM 10.19 451 0.0 numbers also service the single pistor							ton Set" part e pistons.	Yes Yes	N/R N/R				
	Application Notes: DUROSHIELD [®] skirt coated piston													





SPEED-PRO POWERFORGED Pistons LS1 Based Engines; 382 Stroker (3.897 Bore x 4.000 Stroke) Dome Shape: Fiat; 2 reliefs Compression Distance (m): .030 Figure 1.5MM, 1.5MM, 3.0MM Pin Syle: Press or Fiot A Pin Diameter (th): 0.927 Pin Weight (grams): 114 Dex Cleanance (m): .030 Open: Cleanance (m): .030 Date: Cleanance (m): .030 Date: Cleanance (m): .030 Date: Cleanance (m): .030 SPEED-PRD Ring Set Part / Rings Pin Weight (grams): 114 SPEED-PRD Ring Set Part / Rings Pinter Rings SPEED-PRD Ring Set Part / Rings Pinter Rings SPEED-PRD Ring Set Part / Rings Pinter Rings SPEED-PRD Ring Set Part / Rings Pinter Rings Pinter Rings Set UN-Set Rings Pinter Rings Pinter Rings Pinter Rings Set UN-Set Rings Ring: 1.5MM, 1.5MM, 3.0MM Set UN-Set Rings Ring: 1.5MM, 1.5MM, 3.0MM Set Cleanance (n): .030 Pinter Rings Pinter Rings	CI	nevrolet (Gen		V8 - c	ont'o	d.								
LS1 Based Engines: 382 Stroker (3.897 Bore x 4.000 Stroke) Dome Shape: Flat: 2 reliefs Compression Distance (in): 1.125 Deck Clearance (in): 0.00 Ring: 1.5MM, 1.5MM, 3.0MM Pin Shyle: Press or Flat A Pin Diameter (in): 0.927 Pin Weight (grams): 114 Set Clearance (in): 0.00 Set Compression Ratio by Cyl Head CC Team Mark Mark Pin Ring Flat: A find Ring Pine Ring: Pin	SP	EED-PRO P	OWER	FOF	RGED	Pisto	ons								
Dome Shape: Flat; 2 reliefs Compression Distance (m): 1.125 Deck Clearance (m): .003 Fings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float A Pin Diameter (m): .003 Fings: 1.12 Deck Clearance (m): .003 Image: 1.125 Deck Clearance (m): .003 CDD Pint Stef Pint Veight (grams): 114 Image: 1.125 Deck Clearance (m): .003 CDD Pint Stef Pint Veight (grams): 114 Image: 1.125 Deck Clearance (m): .003 Image: 1.125 Deck Clearance (m): .003 Image: 1.125 Deck Clearance (m): .003 282 WL-2624F Deck Clearance (m): .0174 Image: 1.1272 Image: 1.125 Deck Clearance (m): .0174 Image: 1.1272 Image: 1.125 Deck Clearance (m): .0174 Image: 1.1272 Image: 1.125 Deck Clearance (m): .0174 Image: 1.125 Deck Clearance (m): .0174 Image: 1.1272 Image: 1.125 Deck Clearance (m): .0174 Image: 1.1272	LS	1 Based Eng	jines;	382	Stroke	er (3.	897 B	ore x	4.000	Stroke	e)				
CID Piston Set Image Compression Ratio by Cyl Head CC Image Piston (gram) Done Volume (gram) SPEED-PRO Ring Set Part # Noty (error File fit Rings Direct Fit Rings File fit Rings File Fit Rings File Fit Rings		Dome Shape: Fla Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (ir	nt; 2 relief in): 6.12 ance (in) n):010 n): .0030	s 5 : 1.12	5		Ring Pin S Pin I Pin N	gs: 1.5M Style: P Diamete Weight (IM, 1.5MM ress or Flo r (in): 0.92 grams): 1	l, 3.0MM bat ▲ 27 14					
CID Piston Set Part # Compression Ratio by Cyl Head CC Piston (c) Dome Rings SPEED-PRO Ring Set Part # Piston Rings															
Image Part # - - - - - - - - - Rings Direct Fit Rings Pit Rings	CID	Piston Set	Cor	npres	sion Rati	o by C	yl Head	ead CC Piston		Dome Volume	SPE	ED-PRO Ring Sei	t Part #	Fitted	Lock
382 LW-2624F	0.2	Part #			66.0		-		(grams)	(cc)	Rings	Direct Fit Rings	File Fit Rings	Pin	Ring
Singe Haten Part # - - 10.74 - - 372 -5.0 The ring sets listed for the "Piston Set" part numbers also service the single pistons. Yes Included Application Notes: CNC machined; Tapered lightweight pin; DUROSHIELD® skirt coated piston LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 3.620 Stroke) Jone Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Com Postance (in): 0.097 Pin Style: Press Pin Style: Press Jone Stape: Flat; 2 reliefs Diameter (in): 0.945 Deck Clearance (in): 0.030 Pin Style: Press Pin Weight (grams): 151 Jone Step Part # Fitted Lock 289 L: 2840F 30 - - 10.33 - - 473 5.0 E321K 40 - R:10603.45 Yes N/R 375 L: 2840F 40 - - 10.33 - - 473 5.0 E-221K 40 - R:10603.45 Yes N/R 375 L: 2840F 40 - - 10.33 - - 473 5.0 E-221K 40 - R:106	382 386	LW-2624F LW-2624F .25MM			10.74 10.84				372 372	-5.0 -5.0	E-938K E-938K .25MI	 N	R-10598 .13MM R-10598 .38MM	Yes Yes	Included Included
Application Notes: CNC machined; Tapered lightweight pin; DUROSHIELD® skirt coated piston LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 3.620 Stroke) Dome Shape: Filt: 2 reliefs Compression Distance (in): 1.328 Rings: 1.5MM, 1.5MM, 3.0MM Compression Distance (in): .0030 Pin Style: Press Pin Diameter (in): 0.945 Dome SPEED-PRO Ring Set Part # Filted Lock Cito Piston Set Compression Ratio by Cyl Head CC Piston Pin Weight (grams): 151 Dome SPEED-PRO Ring Set Part # Filted Lock 339 L-2640F 40 - - 473 5.0 E421K 40 - Rings Ring 375 L-2640F 40 - - 473 5.0 E421K 40 - Rings Ring 376 L-2640F 40 - - 473 5.0 E421K 40 - Rings Ring 277 L-2640F 40 - - 473 5.0 E421K 40 - Rings Ring Ring 277 L-2640F 40 - - 489 - </td <td>382</td> <td>Singe Piston Part # WLW-2624F</td> <td></td> <td></td> <td>10.74</td> <td></td> <td></td> <td></td> <td>372</td> <td>-5.0</td> <td>The ring se</td> <td>ts listed for the "Pis</td> <td>ton Set" part</td> <td>Yes</td> <td>Included</td>	382	Singe Piston Part # WLW-2624F			10.74				372	-5.0	The ring se	ts listed for the "Pis	ton Set" part	Yes	Included
Application Notes: CNC machined; Tapered lightweight pin; DUROSHIELD* skirt coated piston LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 3.620 Stroke) Dome Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Compression Distance (in): .005 Pin Diameter (in): 0.945 Deck Clearance (in): .0030 Pin Weight (grams): 151 SPEED-PRO Ring Set Part # T T Part # T T 10.35 T 10.39 T 10.49 T 1											numbers al	so service the singl	e pistons.		
LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 3.620 Stroke) Dome Shape: Flat; 2 reliefs Compression Distance (in): 1.328 Deck Clearance (in): 0.005 Skirt Clearance (in): 0.030 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press Pin Diameter (in): 0.945 Pin Weight (grams): 151 Compression Distance (in): 0.030 Compression Ratio by Cyl Head CC Part # Piston Set Compression Ratio by Cyl Head CC Part # Piston Set Compression Ratio by Cyl Head CC Part # Piston Set Compression Ratio by Cyl Head CC Piston Set Compression Distance (in): 0.030 Piston Set Compression Ratio by Cyl Head CC Piston Set Compression Distance (in): 0.030 Piston Set Compression Ratio by Cyl Head CC Piston Set Compression Distance (in): 0.0449 Piston Set Compression Ratio by Cyl Head CC Piston Set Compression Distance (in): 1.125 Compression Distance (in): 1.125 Deck Clearance (in): 0.030 Figure 8 Figure 8 N/P Dome Shape: Flat; 2 reliefs Compression Distance (in): 1.125 Deck Clearance (in): 0.030 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float A Pin Diameter (in): 0.927 Pin Weight (grams): 114 SpeEED-PRO Ring Set Part # Filted Lock Piston Set Compression Ratio by Cyl Head CC Piston Set Clearance (in): 0.030 Vision Piston Set Compression Ratio by Cyl Head CC Piston Set Clearance (in): 0.030 SpeEED-PRO Ring Set Part # Filted Lock Piston Set Compres		Application Notes:	CNC m	achine	ed; Tapere	ed light	weight p	in; DUR	OSHIELD	skirt coa	ited piston				
Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.097 Compression Distance (in): 1.328 Deck Clearance (in): .005 Skirt Clearance (in): .003 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press Pin Diameter (in): 0.945 Pin Weight (grams): 151 Image: Piess Pin Weight (grams): 151 <u>vistor Set</u> <u>vistor Set</u> <u>v</u>	LS	1 Based Eng	jines;	Usir	ng a 6.	0 L E	Block	(4.000) Bore	x 3.62	0 Stroke)				
CID Piston Set Part # Compression Ratio by Cyl Head CC Piston Weight (rams) Piston Weight (rams) SPEED-PRO Ring Set Part # Fitted Piasma-Moly Pi		Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (i	n): 6.09 ance (in) n): .005 n): .0030	5 7 : 1.328	8		Pin S Pin S Pin I Pin N	Style: P Diamete Weight (ress r (in): 0.94 grams): 1	45 51					
Obs Part # (10 gmm) (10 gmm) (10 gmm	CID	Piston Set	Cor	npres	sion Rati	o by C	yl Head	Head CC Piston			SPE	ED-PRO Ring Sei	t Part #	Fitted	Lock
369 L-2640F 30 10.35 474 -5.0 E-921K 30 R-10603 35 Yes N/R 375 L-2640F 60 10.39 479 -5.0 E-921K 40 R-10603 35 Yes N/R Application Notes: DUROSHIELD® skirt coated piston 489 -5.0 E-921K 60 R-10603 65 Yes N/R Application Notes: DUROSHIELD® skirt coated piston 489 -5.0 E-921K 60 R-10603 65 Yes N/R L2640F 60 10.49 489 -5.0 E-921K 60 R-10603 65 Yes N/R Application Notes: DUROSHIELD® skirt coated piston E Sint coated piston E 921K 60 R-10603 65 Yes N/R Compression Distance (in): 1.125 Pin Diameter (in): 0.927 Pin Weight (grams): 114 Sint Clearance (in): 11.25 Pin Weight (grams): 114 <td>OID</td> <td>Part #</td> <td></td> <td></td> <td>66.0</td> <td></td> <td></td> <td></td> <td>(grams)</td> <td>(cc)</td> <td>Rings</td> <td>Direct Fit Rings</td> <td>File Fit Rings</td> <td>Pin</td> <td>Ring</td>	OID	Part #			66.0				(grams)	(cc)	Rings	Direct Fit Rings	File Fit Rings	Pin	Ring
Application Notes: DUROSHIELD® skirt coated piston LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 4.000 Stroke) Dome Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Con Rod Length (in): 6.125 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Diameter (in): 0.927 Deck Clearance (in): -0.10 Pin Weight (grams): 114 Skirt Clearance (in): .0030 Compression Ratio by Cyl Head CC Piston Meight (grams): 114 Volume (cc) Moly Plasma-Moly Flitted Pin Lock Ring 402 LW-2625F	369 371 375	L-2640F 30 L-2640F 40 L-2640F 60			10.35 10.39 10.49			 	474 479 489	-5.0 -5.0 -5.0	E-921K 30 E-921K 40 E-921K 60	 	R-10603 35 R-10603 45 R-10603 65	Yes Yes Yes	N/R N/R N/R
LS1 Based Engines; Using a 6.0 L Block (4.000 Bore x 4.000 Stroke) Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.125 Rings: 1.5MM, 1.5MM, 3.0MM Con Rod Length (in): 6.125 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Deck Clearance (in):010 Deck Clearance (in): .0030 Pin Weight (grams): 114 Vertication of the state of the stat		Application Notes:	DUROS	SHIELD	D® skirt co	pated p	oiston			1					
Dome Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Con Rod Length (in): 6.125 Pin Style: Press or Float ▲ Compression Distance (in): 1.125 Pin Diameter (in): 0.927 Deck Clearance (in): .010 Pin Weight (grams): 114 Skirt Clearance (in): .0030 Fitted Fitted Fitted Volume (cc) Moly Plasma-Moly Plasma-Moly Plasma-Moly Fitted Lock 402 LW-2625F 11.27 402 -5.0 E-921K R-10603 5 Yes Included 402 LW-2625F 60 11.58 428 E-921K R-10603 5 Yes Included 414 LW-2625F 60 428 E-921K R-10603 55 Yes Included	LS	1 Based Eng	jines;	Usir	ng a 6.	0 L E	Block	(4.000) Bore	x 4.00	0 Stroke)				
CID Piston Set Part # Compression Ratio by Cyl Head CC Piston (grams) Dome Volume (cc) SPEED-PRO Ring Set Part # Fitted Plasma-Moly Direct Fit Rings Fitted Plasma-Moly File Fit Rings Fitted Pin Lock Ring 402 408 408 4014 LW-2625F LW-2625F 60 11.27 402 -5.0 E-921K R-10603 5 Yes Included 402 LW-2625F 60 11.42 415 -5.0 E-921K 30 R-10603 35 Yes Included 401 LW-2625F 60 11.58 428 R-921K 60 R-10603 65 Yes Included 1ncluded 11.58 428 R-921K 60 R-10603 65 Yes Included		Dome Shape: Fla Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (ir	t; 2 relief in): 6.12 ance (in) n):010 n): .0030	s 5 : 1.12	5		Ring Pin S Pin I Pin N	Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114			,	600	2		
402 LW-2625F 11.27 402 -5.0 E-921K R-10603 5 Yes Included 408 LW-2625F 30 11.42 415 -5.0 E-921K 30 R-10603 35 Yes Included 414 LW-2625F 60 11.58 428 -5.0 E-921K 60 R-10603 65 Yes Included	CID	Piston Set Part #	Cor 	npres: 	sion Rati 66.0	o by C 	yl Head 		Piston Weight (grams)	Dome Volume (cc)	SPE Moly Rings	ED-PRO Ring Se Plasma-Moly Direct Fit Rings	t Part # Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
	402 408 414	LW-2625F 11.27 08 LW-2625F 30 11.42 14 LW-2625F 60 11.58							402 415 428	-5.0 -5.0 -5.0	E-921K E-921K 30 E-921K 60		R-10603 5 R-10603 35 R-10603 65	Yes Yes Yes	Included Included Included

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

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PERFORMANCE ENGINE BEARINGS



Chevrolet Gen III V8 - cont'd.

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
346 LS ⁻	1 Engines				
Rod Set					
	Competition Series Competition Series	8-7100CH C8-7100CH	Super Duty Alloy Super Duty Alloy	Chamfer Chamfer; Coated	Std-1-1X-9-10-11-19-20-21-30 Std-1-1X-10-20-30
Main Set					
	O.E. Replacement Competition Series	7298MA 152M	A-Series aluminum bearings Super Duty Alloy	3/4 Groove	Std-10-20-30-40 Std-1-1X-10
Cam Set					
	O.E. Replacement; 1997-02 O.E. Replacement; 2003-04	1888M 1898M	Babbitt Babbitt		Std Only Std Only

PERFORMANCE PISTONS



Chevrolet S	mall Block									
SPEED-PRO Hyp	pereutectic Piston Sets v	with F	Rings							
350 Engines										
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH423DCP 30	Hypereutectic		H423DCP E-251K	8 1	30-40-60					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	8.84:1 .098 D DURO	8.84:1 w/64cc heads .098 Dish; 4 reliefs DUROSHIELD® skirt coated piston; 5.7" rod; Use w/Lock Ring LR-63							
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH345DCP 30	Hypereutectic		H345DCP E-251K	8 1	30-40-60					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.33:1 Flat; 4 DURO	w/64cc heads reliefs SHIELD® skirt coated pisto	on; 5.7" rod; Use w/Lock Ri	ng LR-63					
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH669DCP 30	Hypereutectic		H669DCP E-921K	8 1	30					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.58:1 Flat; 4 DURO	w/64cc heads reliefs SHIELD® skirt coated pisto	on; 5.7" rod; Use w/Lock Ri	ng LR-63					
PART NUMBER	PISTON TYPE		COMPONENT COMPONENT QTY AVAILABLE SIZES							
8KH100CP 30	Hypereutectic		H100CP R-8902	8 1	30-60					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.73:1 Flat; 2 DURO	w/64cc heads reliefs SHIELD® skirt coated pisto	on; 5.7" rod; CNC machined	d					
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH618CP 30	Hypereutectic		H618CP E-251K	8 1	30-40-60					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.72: .125 do DURO	1 w/64cc heads ome; 2 reliefs SHIELD® skirt coated pisto	on; 5.7" rod						
383 Engines										
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH423DCP 30	Hypereutectic		H423DCP E-251K	8 1	30-40-60					
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.45:1 .098 D DURO	w/64cc heads ish; 4 reliefs SHIELD® skirt coated pisto	n; 5.565" rod; Use w/Lock	Ring LR-63					

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



383 Engines										
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KH137CL 30	Hypereutectic	H137CL R-8902	8 1	30						
	COMPRESSION RATIO: DOME DESIGN:	9.67:1 w/64cc heads Dish								
	FEATURES:	DUROSHIELD® skirt coated	piston; 5.7" rod; CNC machine	d; Tapered pin						
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KH345DCP 30	Hypereutectic	H345DCP E-251K	8 1	30-40-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.98:1 w/64cc heads Flat; 4 reliefs DUROSHIELD® skirt coated	98:1 w/64cc heads at; 4 reliefs UBOSHIELD® skirt coated niston: 5 565" rod: Use w/Lock Ring L R-63							
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KH669DCP 30	Hypereutectic	H669DCP E-921K	8	30						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.24:1 w/64cc heads Flat; 4 reliefs DUROSHIELD® skirt coated	piston; Use w/Lock Ring LR-63	8: 5.565" rods						
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KH124CL 30	Hypereutectic	H124CL R-8902	8	30-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.53:1 w/64cc heads Flat; 2 reliefs DUROSHIELD® skirt coated	piston; 6" rod; CNC machined;	Tapered pin						
400 Engines										
	PISTON TYPE	COMPONENT	COMPONENT OTY	AVAILABLE SIZES						
8KH616CP 30	Hypereutectic	H616CP E-243K	8 1	30-40-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.84:1 w/64cc heads Flat; 4 reliefs DUROSHIELD® skirt coated	piston; 5.7" rod							
SPEED-PRO PO	WERFORGED Piston Se	ts with Rings								
327 Engines			1							
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2165F 30	POWERFORGED	L-2165F E-251K	8 1	30-40-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.07:1 w/64cc heads Flat; 4 reliefs DUROSHIELD® skirt coated	piston; 5.7" rod							
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2166NF 30	POWERFORGED	L-2166NF E-251K	8	30-40-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.35:1 w/64cc heads .125 dome DUROSHIELD® skirt coated	piston; 5.7" rod	·						
350 Engines			•							
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT OTV							
8KL2441F 30	POWERFORGED	L-2441F E-251K	8 1	30						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	8.35:1 w/64cc heads Dish DUROSHIELD® skirt coated	piston; 5.7" rod	I						



SPEED-PRO POWERFORGED Piston Sets with Rings

350 Engines											
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2256F 30	POWERFORGED		L-2256F E-251K	8 1	30-40-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.72:1 Flat; 4 DURO	9.72:1 w/64cc heads Flat; 4 reliefs DUROSHIELD® skirt coated piston; 5.7" rod								
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KLW2256F 30	POWERFORGED		LW-2256F R-8902	8 1	30-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.72:1 Flat; 4 DURO	w/64cc heads reliefs ISHIELD® skirt coated piston;	5.7" rod; Lightweight: Ta	apered pin						
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2490NF 30	POWERFORGED		L-2490NF R-8902	8 1	30-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.06: Flat; 2 DURO	1 w/64cc heads reliefs /SHIELD® skirt coated piston;	5.7" rod							
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2304F 30	POWERFORGED		L-2304F E-251K	8 1	30-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.63: .100 d DURO	1 w/64cc heads ome /SHIELD® skirt coated piston;	5.7" rod							
383 Engines											
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2491NF 30	POWERFORGED		L-2491NF R-8902	8 1	30-60						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.76: Flat; 2 DuroS	1 w/64cc heads reliefs hield® skirt coated piston; 5.7	" rod							
400 Engines											
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES						
8KL2352F 30	POWERFORGED		L-2352F E-243K	8 1	30-40						
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.91:1 w/64cc heads .083 dish; 4 reliefs DUROSHIELD® skirt coated piston; 5.565" rod									



SPEED-PRO Hypereutectic Pistons

305 Based Engines (3.736 Bore x 3.480 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144



	Piston Set Part #	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lash
CID		58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
305 309 310 312 315	H534CP H534CP 20 H534CP 30 H534CP 40 H534CP 60	8.84 8.91 8.95 8.99 9.06	8.60 8.67 8.71 8.74 8.82	8.29 8.36 8.39 8.43 8.50	7.96 8.03 8.06 8.10 8.17	7.67 7.73 7.76 7.80 7.86	7.39 7.46 7.49 7.52 7.58	472 482 487 492 502	-5.0 -5.0 -5.0 -5.0 -5.0	E-356K E-356K 20 E-356K 30 E-356K 40 E-356K 60		 R-10434 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R
	Singe Piston Part #													
305 309 310 312 315	WH534CP WH534CP 20 WH534CP 30 WH534CP 40 WH534CP 60	8.84 8.91 8.95 8.99 9.06	8.60 8.67 8.71 8.74 8.82	8.29 8.36 8.39 8.43 8.50	7.96 8.03 8.06 8.10 8.17	7.67 7.73 7.76 7.80 7.80 7.86	7.39 7.46 7.49 7.52 7.58	472 482 487 492 502	-5.0 -5.0 -5.0 -5.0 -5.0	The ring sets listed for the "Piston Set" part numbers also service the single pistons.		Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R	

Application Notes: DUROSHIELD® skirt coated piston

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144



	Diston Sot	Co	mpress	ion Rat	io by Cy	Head	CC	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
329 333 334 336 340	H534CP H534CP 20 H534CP 30 H534CP 40 H534CP 60	9.44 9.52 9.57 9.61 9.69	9.19 9.27 9.31 9.35 9.43	8.85 8.93 8.97 9.01 9.08	8.50 8.58 8.61 8.65 8.72	8.18 8.25 8.29 8.32 8.39	7.89 7.96 7.99 8.03 8.09	472 482 487 492 502	-5.0 -5.0 -5.0 -5.0 -5.0	E-356K E-356K 20 E-356K 30 E-356K 40 E-356K 60	 	 R-10434 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #													
329 333 334 336 340	WH534CP WH534CP 20 WH534CP 30 WH534CP 40 WH534CP 60	9.44 9.52 9.57 9.61 9.69	9.19 9.27 9.31 9.35 9.43	8.85 8.93 8.97 9.01 9.08	8.50 8.58 8.61 8.65 8.72	8.18 8.25 8.29 8.32 8.39	7.89 7.96 7.99 8.03 8.09	472 482 487 492 502	-5.0 -5.0 -5.0 -5.0 -5.0	The ring set numbers als	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R		
	Application Notes: 3-3/4" stroker w/400 crank & rods; DUROSHIELD® skirt coated piston													



SPEED-PRO Hypereutectic Pistons

327 Based Engines (4.000 Bore x 3.250 Stroke)





Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.675 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Diston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Finad	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
327 330 332 333 337	H660CP H660CP 20 H660CP 30 H660CP 40 H660CP 60	9.66 9.74 9.79 9.83 9.91	9.39 9.47 9.51 9.55 9.63	9.04 9.11 9.15 9.19 9.27	8.67 8.74 8.78 8.82 8.89	8.33 8.40 8.44 8.47 8.54	8.03 8.09 8.13 8.16 8.23	587 597 602 607 617	-4.0 -4.0 -4.0 -4.0 -4.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
327 330 332 333 337	WH660CP WH660CP 20 WH660CP 30 WH660CP 40 WH660CP 60	9.66 9.74 9.79 9.83 9.91	9.39 9.47 9.51 9.55 9.63	9.04 9.11 9.15 9.19 9.27	8.67 8.74 8.78 8.82 8.89	8.33 8.40 8.44 8.47 8.54	8.03 8.09 8.13 8.16 8.23	587 597 602 607 617	-4.0 -4.0 -4.0 -4.0 -4.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Nates			مارئيط م		atam. Th	-	to listed f		ton Cotil nort n	umboro oloo ooru	iaa tha ainala nia	tono	

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: .098 dish; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149

	Diston Sot	Co	mpress	ion Rati	io by Cy	Head	00	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Elite d	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 353 355 357 361	H423DCP H423DCP 20 H423DCP 30 H423DCP 40 H423DCP 60	9.27 9.34 9.38 9.42 9.49	 	8.73 8.80 8.84 8.87 8.95	8.41 8.48 8.52 8.55 8.62	8.12 8.18 8.22 8.25 8.32	7.85 7.91 7.94 7.97 8.04	512 521 526 531 541	-12.3 -12.3 -12.3 -12.3 -12.3	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Not Incl. Not Incl. Not Incl. Not Incl. Not Incl.
	Singe Piston Part #													
350 353 355 357 361	WH423DCP WH423DCP 20 WH423DCP 30 WH423DCP 40 WH423DCP 60	9.27 9.34 9.38 9.42 9.49	 	8.73 8.80 8.84 8.87 8.95	8.41 8.48 8.52 8.55 8.62	8.12 8.18 8.22 8.25 8.32	7.85 7.91 7.94 7.97 8.04	512 521 526 531 541	-12.3 -12.3 -12.3 -12.3 -12.3	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Not Incl. Not Incl. Not Incl. Not Incl. Not Incl.
	Application Notes: DUROSHIELD [®] skirt coated piston; Use w/Lock Ring LR-63; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

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SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: .100 dish; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.540 Deck Clearance (in): .045 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 149



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Leek
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
353	H423NP 20	9.41		8.86	8.53	8.23	7.96	531	-10.0	E-251K 20	R-9903 20	R-9343 25	Yes	N/R

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149



	Diston Sat	Co	mpress	sion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	E 111.1	
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
350	H345DCP	9.83		9.22	8.86	8.53	8.22	529	-6.9	E-251K	R-9903	R-9343 5	Yes	Not Incl.
353	H345DCP 20	9.91		9.29	8.93	8.60	8.29	539	-6.9	E-251K 20	R-9903 20	R-9343 25	Yes	Not Incl.
355	H345DCP 30	9.95		9.33	8.79	8.63	8.32	544	-6.9	E-251K 30	R-9903 30	R-9343 35	Yes	Not Incl.
357	H345DCP 40	9.99		9.37	9.00	8.67	8.36	549	-6.9	E-251K 40		R-9343 45	Yes	Not Incl.
361	H345DCP 60	10.07		9.44	9.07	8.74	8.43	559	-6.9	E-251K 60	R-9903 60	R-9343 65	Yes	Not Incl.
	Singe Piston Part #								•	•			•	
350	WH345DCP	9.83		9.22	8.86	8.53	8.22	529	-6.9	WE-251K			Yes	Not Incl.
353	WH345DCP 20	9.91		9.29	8.93	8.60	8.29	539	-6.9				Yes	Not Incl.
355	WH345DCP 30	9.95		9.33	8.79	8.63	8.32	544	-6.9	WE-251K 30		WR-9343 35	Yes	Not Incl.
357	WH345DCP 40	9.99		9.37	9.00	8.67	8.36	549	-6.9	WE-251K 40			Yes	Not Incl.
361	WH345DCP 60	10.07		9.44	9.07	8.74	8.43	559	-6.9	WE-251K 60			Yes	Not Incl.
	Application Notes single pistons.	: DURO	SHIELD	O® skirt o	coated pi	ston; Us	se w/Loc	k Ring LR	-63; The r	ring sets listed f	or the "Piston Se	t" part numbers a	also servic	e the



Chevrolet Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Se	t Part #	Filmed	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
353	H669DCP	10.10		9.46	9.08	8.73	8.41	549	-6.9	E-921K		R-10603 5	Yes	Included
355	H669DCP 30	10.23		9.58	9.19	8.84	8.51	563	-6.9	E-921K 30		R-10603 35	Yes	Included
357	H669DCP 40	10.27		9.62	9.23	8.87	8.55	568	-6.9	E-921K 40		R-10603 45	Yes	Included
361	H669DCP 60	10.36		9.70	9.31	8.95	8.62	577	-6.9	E-921K 60		R-10603 65	Yes	Included

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Piston Sat	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 355 357 361	H100CP H100CP 30 H100CP 40 H100CP 60	10.28 10.41 10.45 10.54	9.99 10.11 10.15 10.24	9.61 9.73 9.77 9.85	9.21 9.33 9.37 9.45	8.85 8.97 9.00 9.08	8.52 8.63 8.67 8.74	556 571 576 586	-5.0 -5.0 -5.0 -5.0	R-8902 R-8902 30 R-8902 40 R-8902 60	R-9902 R-9902 30 R-9902 40 R-9902 60	R-9771 5 R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes Yes	Included Included Included Included
	Singe Piston Part #													
350 355 357 361	WH100CP WH100CP 30 WH100CP 40 WH100CP 60	10.28 10.41 10.45 10.54	9.99 10.11 10.15 10.24	9.61 9.73 9.77 9.85	9.21 9.33 9.37 9.45	8.85 8.97 9.00 9.08	8.52 8.63 8.67 8.74	556 571 576 586	-5.0 -5.0 -5.0 -5.0	 	 WR-9902 30 	 WR-9771 35 	Yes Yes Yes Yes	Included Included Included Included
	Application Notes: the single pistons.	Lightw	eight; DI	UROSH	IELD® s	kirt coate	ed pistor	n; CNC ma	achined; 1	The ring sets lis	sted for the "Pistor	n Set" part numb	ers also se	ervice



SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #		11
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 353 355 357 361	H631CP H631CP 20 H631CP 30 H631CP 40 H631CP 60	10.28 10.36 10.41 10.45 10.54	9.99 10.07 10.11 10.15 10.24	9.61 9.69 9.73 9.77 9.85	9.21 9.29 9.33 9.37 9.45	8.85 8.93 8.97 9.00 9.08	8.52 8.60 8.63 8.67 8.74	552 562 567 572 582	-5.0 -5.0 -5.0 -5.0 -5.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
350 353 355 357 361	WH631CP WH631CP 20 WH631CP 30 WH631CP 40 WH631CP 60	10.28 10.36 10.41 10.45 10.54	9.99 10.07 10.11 10.15 10.24	9.61 9.69 9.73 9.77 9.85	9.21 9.29 9.33 9.37 9.45	8.85 8.93 8.97 9.00 9.08	8.52 8.60 8.63 8.67 8.74	552 562 567 572 582	-5.0 -5.0 -5.0 -5.0 -5.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included

Application Notes: DUROSHIELD[®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: .125 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitterd	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 353 355 357 361	H618CP H618CP 20 H618CP 30 H618CP 40 H618CP 60	11.42 11.52 11.57 11.62 11.71	11.06 11.15 11.20 11.25 11.34	10.59 10.68 10.72 10.77 10.86	10.10 10.19 10.23 10.27 10.36	9.66 9.74 9.78 9.82 9.91	9.26 9.34 9.38 9.42 9.50	581 591 596 601 611	3.5 3.5 3.5 3.5 3.5	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
350 353 355 357 361	WH618CP WH618CP 20 WH618CP 30 WH618CP 40 WH618CP 60	11.42 11.52 11.57 11.62 11.71	11.06 11.15 11.20 11.25 11.34	10.59 10.68 10.72 10.77 10.86	10.10 10.19 10.23 10.27 10.36	9.66 9.74 9.78 9.82 9.91	9.26 9.34 9.38 9.42 9.50	581 591 596 601 611	3.5 3.5 3.5 3.5 3.5 3.5	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes:	DURO	SHIELD	® skirt c	oated pie	ston; Th	e ring se	ets listed for	or the "Pis	ton Set" part nu	umbers also serv	ice the single pis	tons.	

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The sealed Power standard replacement parts catalog



SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: .100 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Diston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 357 361	H101CP 30 H101CP 40 H101CP 60	11.57 11.62 11.71	11.20 11.25 11.34	10.72 10.77 10.86	10.23 10.27 10.36	9.78 9.82 9.91	9.38 9.42 9.50	606 611 621	3.5 3.5 3.5	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
355 357 361	WH101CP 30 WH101CP 40 WH101CP 60	11.57 11.62 11.71	11.20 11.25 11.34	10.72 10.77 10.86	10.23 10.27 10.36	9.78 9.82 9.91	9.38 9.42 9.50	606 611 621	3.5 3.5 3.5	 	WR-9902 30 	WR-9771 35 	Yes Yes Yes	Included Included Included

Application Notes: Lightweight; DUROSHIELD[®] skirt coated piston; CNC machined; The ring sets listed for the "Piston Set" part numbers also service the single pistons.



Dome Shape: .275 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitted	Laak
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350	H617CP	12.86	12.38	11.78	11.17	10.63	10.13	601	11.8	E-251K	R-9903	R-9343 5	Yes	Included
355	H617CP 30	13.02	12.54	11.93	11.31	10.76	10.26	616	11.8	E-251K 30	R-9903 30	R-9343 35	Yes	Included
357	H617CP 40	13.07	12.59	11.98	11.36	10.81	10.31	621	11.8	E-251K 40		R-9343 45	Yes	Included
361	H617CP 60	13.18	12.70	12.08	11.46	10.90	10.39	631	11.8	E-251K 60	R-9903 60	R-9343 65	Yes	Included
	Singe Piston Part #													
350	WH617CP	12.86	12.38	11.78	11.17	10.63	10.13	601	11.8	WE-251K			Yes	Included
355	WH617CP 30	13.02	12.54	11.93	11.31	10.76	10.26	616	11.8	WE-251K 30		WR-9343 35	Yes	Included
357	WH617CP 40	13.07	12.59	11.98	11.36	10.81	10.31	621	11.8	WE-251K 40			Yes	Included
361	WH617CP 60	13.18	12.70	12.08	11.46	10.90	10.39	631	11.8	WE-251K 60			Yes	Included
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ston Set" part nu	umbers also servi	ice the single pis	tons.	



SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: .240 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 357 361	H102CP 30 H102CP 40 H102CP 60	13.02 13.07 13.18	12.54 12.59 12.70	11.93 11.98 12.08	11.31 11.36 11.46	10.76 10.81 10.90	10.26 10.31 10.39	629 634 644	11.8 11.8 11.8	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
355 357 361	WH102CP 30 WH102CP 40 WH102CP 60	13.02 13.07 13.18	12.54 12.59 12.70	11.93 11.98 12.08	11.31 11.36 11.46	10.76 10.81 10.90	10.26 10.31 10.39	629 634 644	11.8 11.8 11.8		WR-9902 30 	WR-9771 35 	Yes Yes Yes	Included Included Included

Application Notes: Lightweight; DUROSHIELD[®] skirt coated piston; CNC machined; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.260 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 126



		Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #		
CID	Piston Set Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
350 353 355 357 361	H140CL H140CL 20 H140CL 30 H140CL 40 H140CL 60	10.28 10.36 10.41 10.45 10.54	9.99 10.07 10.11 10.15 10.24	9.61 9.69 9.73 9.77 9.85	9.21 9.29 9.33 9.37 9.45	8.85 8.93 8.97 9.00 9.08	8.52 8.60 8.63 8.67 8.74	454 464 469 474 484	-5.0 -5.0 -5.0 -5.0 -5.0	 	 R-9968 30 R-9968 60	 R-9342 35 R-9342 45 R-9342 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
350 355 357 361	WH140CL WH140CL 30 WH140CL 40 WH140CL 60	10.28 10.41 10.45 10.54	9.99 10.11 10.15 10.24	9.61 9.73 9.77 9.85	9.21 9.33 9.37 9.45	8.85 8.97 9.00 9.08	8.52 8.63 8.67 8.74	454 469 474 484	-5.0 -5.0 -5.0 -5.0	 	 	 WR-9342 35 	Yes Yes Yes Yes	Included Included Included Included
	Application Notes	: CNC r	nachineo single ni	d; Lightw	/eight; Li	ightweig	ht pin; D	UROSHIE	ELD® skirt	coated piston;	The ring sets list	ed for the "Pistor	n Set" part	

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SPEED-PRO Hypereutectic Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: .120 dome; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.260 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 126

	Picton Sot	Co	mpress	ion Rat	io by Cy	l Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Finad	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350	H141CL	11.42	11.06	10.59	10.10	9.66	9.26	476	3.5				Yes	Included
355	H141CL 30	11.57	11.20	10.72	10.23	9.78	9.38	491	3.5		R-9968 30	R-9342 35	Yes	Included
357	H141CL 40	11.62	11.25	10.77	10.27	9.82	9.42	496	3.5			R-9342 45	Yes	Included
361	H141CL 60	11.71	11.34	10.86	10.36	9.91	9.50	506	3.5		R-9968 60	R-9342 65	Yes	Included
	Singe Piston Part #													
350	WH141CL	11.42	11.06	10.59	10.10	9.66	9.26	476	3.5				Yes	Included
355	WH141CL 30	11.57	11.20	10.72	10.23	9.78	9.38	491	3.5			WR-9342 35	Yes	Included
357	WH141CL 40	11.62	11.25	10.77	10.27	9.82	9.42	496	3.5				Yes	Included
361	WH141CL 60	11.71	11.34	10.86	10.36	9.91	9.50	506	3.5				Yes	Included

Application Notes: CNC machined; Lightweight; Lightweight pin; DUROSHIELD[®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.





Dome Shape: .285 dome; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.260 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 126

		Co	mnress	ion Rati	o by Cy	l Head (20	Distan	Dama	SPEE	D-PRO Ring Set	Part #		
CID	Piston Set Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
350	H142CL	12.86	12.38	11.78	11.17	10.63	10.12	498	11.8				Yes	Included
355	H142CL 30	13.02	12.54	11.93	11.31	10.76	10.25	513	11.8		R-9968 30	R-9342 35	Yes	Included
357	H142CL 40	13.07	12.59	11.98	11.36	10.81	10.29	518	11.8			R-9342 45	Yes	Included
361	H142CL 60	13.18	12.70	12.08	11.46	10.90	10.38	528	11.8		R-9968 60	R-9342 65	Yes	Included
	Singe Piston Part #							•					-	
355	WH142CL 30	13.02	12.54	11.93	11.31	10.76	10.25	513	11.8			WR-9342 35	Yes	Included
357	WH142CL 40	13.07	12.59	11.98	11.36	10.81	10.29	518	11.8				Yes	Included
361	WH142CL 60	13.18	12.70	12.08	11.46	10.90	10.38	528	11.8				Yes	Included
	Application Notes numbers also serv	CNC n	nachine single pi	d; Lightw stons.	/eight; Li	ightweig	ht pin; D	UROSHIE	ELD® skirt	coated piston;	The ring sets list	ed for the "Pistor	Set" part	



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: .098 dish; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Filter	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 381 383 385 389	H423DCP H423DCP 20 H423DCP 30 H423DCP 40 H423DCP 60	9.91 9.99 10.03 10.07 10.15	 	9.33 9.41 9.45 9.49 9.56	8.99 9.06 9.10 9.14 9.21	8.67 8.74 8.78 8.81 8.88	8.38 8.45 8.48 8.51 8.58	512 521 526 531 541	-12.3 -12.3 -12.3 -12.3 -12.3 -12.3	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Not Incl. Not Incl. Not Incl. Not Incl. Not Incl.
	Singe Piston Part #													
377 381 383 385 389	WH423DCP WH423DCP 20 WH423DCP 30 WH423DCP 40 WH423DCP 60	9.91 9.99 10.03 10.07 10.15		9.33 9.41 9.45 9.49 9.56	8.99 9.06 9.10 9.14 9.21	8.67 8.74 8.78 8.81 8.88	8.38 8.45 8.48 8.51 8.58	512 521 526 531 541	-12.3 -12.3 -12.3 -12.3 -12.3	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Not Incl. Not Incl. Not Incl. Not Incl. Not Incl.

Application Notes: DUROSHIELD® skirt coated piston; Use w/Lock Ring LR-63; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.548 Deck Clearance (in): .037 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149



	Diston Sat	Co	mpress	ion Rati	o by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #		
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377	H345DCP	10.51		9.86	9.47	9.11	8.78	529	-6.9	E-251K	R-9903	R-9343 5	Yes	Not Incl.
381	H345DCP 20	10.60		9.94	9.55	9.19	8.86	539	-6.9	E-251K 20	R-9903 20	R-9343 25	Yes	Not Incl.
383	H345DCP 30	10.64		9.98	9.58	9.22	8.89	544	-6.9	E-251K 30	R-9903 30	R-9343 35	Yes	Not Incl.
385	H345DCP 40	10.68		10.02	9.62	9.26	8.93	549	-6.9	E-251K 40		R-9343 45	Yes	Not Incl.
389	H345DCP 60	10.77		10.10	9.70	9.34	9.00	559	-6.9	E-251K 60	R-9903 60	R-9343 65	Yes	Not Incl.
	Singe Piston Part #	-								•				
377	WH345DCP	10.51		9.86	9.47	9.11	8.78	529	-6.9	WE-251K			Yes	Not Incl.
381	WH345DCP 20	10.60		9.94	9.55	9.19	8.86	539	-6.9				Yes	Not Incl.
383	WH345DCP 30	10.64		9.98	9.58	9.22	8.89	544	-6.9	WE-251K 30		WR-9343 35	Yes	Not Incl.
385	WH345DCP 40	10.68		10.02	9.62	9.26	8.93	549	-6.9	WE-251K 40			Yes	Not Incl.
389	WH345DCP 60	10.77		10.10	9.70	9.34	9.00	559	-6.9	WE-251K 60			Yes	Not Incl.
	Application Notes single pistons.	DURO	SHIELD)® skirt c	pated pi	ston; Us	e w/Loc	k Ring LR	-63; The r	ring sets listed for	or the "Piston Sei	" part numbers a	llso service	e the

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The sealed Power standard replacement parts catalog



Chevrolet Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 149

	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Se	t Part #	Filmed	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377	H669DCP	10.81		10.11	9.70	9.33	8.98	549	-6.9	E-921K		R-10603 5	Yes	Included
383	H669DCP 30	10.95		10.24	9.83	9.45	9.10	563	-6.9	E-921K 30		R-10603 35	Yes	Included
385	H669DCP 40	10.99		10.29	9.87	9.49	9.14	568	-6.9	E-921K 40		R-10603 45	Yes	Included
389	H669DCP 60	11.09		10.37	9.95	9.57	9.21	577	-6.9	E-921K 60		R-10603 65	Yes	Included

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: Dish Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Piston Set	Co	mpress	ion Rat	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 383 385 389	H890CP H890CP 30 H890CP 40 H890CP 60	8.95 9.06 9.10 9.18	8.75 8.86 8.90 8.90	8.49 8.59 8.63 8.70	8.21 8.31 8.34 8.41	7.95 8.05 8.08 8.15	7.71 7.80 7.83 7.90	504 519 524 534	-25.0 -25.0 -25.0 -25.0	E-251K E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 30 R-9903 60	R-9343 5 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes	Included Included Included Included
	Singe Piston Part #													
389	WH890CP 60	9.18	8.90	8.70	8.41	8.15	7.90	534	-25.0	WE-251K 60			Yes	Included
	Application Notes: service the single	CNC n pistons.	nachine	d; Lightw	eight pir	n; DURC	SHIELD)® skirt co	ated pisto	n; The ring sets	s listed for the "Pi	ston Set" part nu	mbers als	0



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: Dish; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385 389	H137CL 30 H137CL 40 H137CL 60	10.28 10.33 10.41	10.02 10.06 10.14	9.67 9.71 9.79	9.30 9.34 9.42	8.96 9.00 9.08	8.65 8.69 8.76	515 520 530	-12.0 -12.0 -12.0	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes	Included Included Included

Application Notes: CNC machined; Lightweight; Lightweight pin; DUROSHIELD® skirt coated piston

Dome Shape: .110 dish; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	E.u. I	
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
377 381 383 385 389	H859CP H859CP 20 H859CP 30 H859CP 40 H859CP 60	10.16 10.24 10.28 10.33 10.41	9.89 9.98 10.02 10.06 10.14	9.55 9.63 9.67 9.71 9.79	9.18 9.26 9.30 9.34 9.42	8.85 8.93 8.96 9.00 9.08	8.55 8.62 8.65 8.69 8.76	496 506 511 516 526	-12.0 -12.0 -12.0 -12.0 -12.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
377 381 383 385 389	WH859CP WH859CP 20 WH859CP 30 WH859CP 40 WH859CP 60	10.16 10.24 10.28 10.33 10.41	9.89 9.98 10.02 10.06 10.14	9.55 9.63 9.67 9.71 9.79	9.18 9.26 9.30 9.34 9.42	8.85 8.93 8.96 9.00 9.08	8.55 8.62 8.65 8.69 8.76	496 506 511 516 526	-12.0 -12.0 -12.0 -12.0 -12.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes pistons.	: Lightw	eight pir	n; DURC	SHIELD)® skirt o	coated pi	ston; The	ring sets	listed for the "P	iston Set" part nu	imbers also servi	ice the sin	gle



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Diston Sot	Co	mpress	ion Rati	io by Cy	Head (CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight	Volume	Moly	Plasma-Moly	Plasma-Moly	Pin	Ring
								(grams)	(00)	Rings	Direct Fit Rings	File Fit Rings		
377	H860CP	10.98	10.67	10.27	9.84	9.45	9.10	515	-5.0	E-251K	R-9903	R-9343 5	Yes	Included
381	H860CP 20	11.08	10.76	10.35	9.92	9.53	9.18	525	-5.0	E-251K 20	R-9903 20	R-9343 25	Yes	Included
383	H860CP 30	11.12	10.81	10.40	9.97	9.57	9.21	530	-5.0	E-251K 30	R-9903 30	R-9343 35	Yes	Included
385		11.17	10.85	10.44	10.01	9.61	9.25	535	-5.0	E-251K 40	 D 0002 60	R-9343 45	Yes	Included
369		11.20	10.94	10.53	10.09	9.69	9.33	545	-5.0	E-201K 00	R-9903 60	R-9343 05	res	Included
	Singe Piston Part #							1					1	r
377	WH860CP	10.98	10.67	10.27	9.84	9.45	9.10	515	-5.0	WE-251K			Yes	Included
381	WH860CP 20	11.08	10.76	10.35	9.92	9.53	9.18	525	-5.0				Yes	Included
383	WH860CP 30	11.12	10.81	10.40	9.97	9.57	9.21	530	-5.0	WE-251K 30		WR-9343 35	Yes	Included
385		11.17	10.85	10.44	10.01	9.61	9.25	535	-5.0	WE-251K 40			Yes	Included
	pistons.				1		D	ome Shap	be: Flat; 2 ength (in):	reliefs 5.700	Ring Pin s	s: 1/16, 1/16, 3/ Style: Press or F	16 Ioat ▲	-
			11				С	ompressio	on Distanc	e (in): 1.425	Pin I	Diameter (in): 0.9	927	
			- (4)	1			D	eck Clear	ance (in):	.025	Pin	Weight (grams):	133	
				55	>		S	kirt Cleara	ince (in):	.0015				
	Piston Set	Co	mpress	ion Rat	io by Cy	Head (CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	Fitted	Look
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight	Volume	Moly	Plasma-Moly	Plasma-Moly	Pin	Ring

	Dicton Sot							1 101011	Donno	.			E la se al	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385 389	H138CL 30 H138CL 40 H138CL 60	11.12 11.17 11.26	10.81 10.85 10.94	10.40 10.44 10.53	9.97 10.01 10.09	9.57 9.61 9.69	9.21 9.25 9.33	534 539 549	-5.0 -5.0 -5.0	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
383	WH138CL 30	11.12	10.81	10.40	9.97	9.57	9.21	534	-5.0		WR-9902 30	WR-9771 35	Yes	Included
	Application Notes numbers also serv	: CNC r	nachine single p	d; Lightw istons.	veight; Li	ghtweig	ht pin; D	UROSHIE	ELD® skirt	coated piston	; The ring sets list	ed for the "Pistor	n Set" part	



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: .100 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sot	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385 389	H624CP 30 H624CP 40 H624CP 60	12.39 12.44 12.55	11.99 12.04 12.14	11.48 11.52 11.62	10.94 10.99 11.08	10.46 10.51 10.60	10.03 10.07 10.15	521 526 536	3.5 3.5 3.5	E-251K 30 E-251K 40 E-251K 60	R-9903 30 R-9903 60	R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
383 385 389	WH624CP 30 WH624CP 40 WH624CP 60	12.39 12.44 12.55	11.99 12.04 12.14	11.48 11.52 11.62	10.94 10.99 11.08	10.46 10.51 10.60	10.03 10.07 10.15	521 526 536	3.5 3.5 3.5	WE-251K 30 WE-251K 40 WE-251K 60	 	WR-9343 35 	Yes Yes Yes	Included Included Included

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: .200 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Finad	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385 389	H106CP 30 H106CP 40 H106CP 60	13.48 13.53 13.65	13.00 13.05 13.16	12.39 12.44 12.55	11.76 11.81 11.91	11.20 11.25 11.34	10.70 10.74 10.83	546 551 561	9.5 9.5 9.5	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9771 35 R-9771 45 R-9771 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
383 385 389	WH106CP 30 WH106CP 40 WH106CP 60	13.48 13.53 13.65	13.00 13.05 13.16	12.39 12.44 12.55	11.76 11.81 11.91	11.20 11.25 11.34	10.70 10.74 10.83	546 551 561	9.5 9.5 9.5		WR-9902 30 	WR-9771 35 	Yes Yes Yes	Included Included Included
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; CN	IC mach	ined; The	ring sets	listed for the "F	Piston Set" part nu	umbers also serv	ice the sin	gle

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)



Dome Shape: .200 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Picton Sot	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385 389	H635CP 30 H635CP 40 H635CP 60	13.48 13.00 12.39 11.76 11.20 10 13.53 13.05 12.44 11.81 11.25 10 13.65 13.16 12.55 11.91 11.34 10					10.70 10.74 10.83	536 541 551	9.5 9.5 9.5	E-251K 30 E-251K 40 E-251K 60	R-9903 30 R-9903 60	R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
383 385 389	WH635CP 30 WH635CP 40 WH635CP 60	13.48 13.53 13.65	13.00 13.05 13.16	12.39 12.44 12.55	11.76 11.81 11.91	11.20 11.25 11.34	10.70 10.74 10.83	536 541 551	9.5 9.5 9.5	WE-251K 30 WE-251K 40 WE-251K 60	 	WR-9343 35 	Yes Yes Yes	Included Included Included
	Application Notes	: DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed f	or the "Pis	ston Set" part n	umbers also servi	ice the single pis	tons.	

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Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.130 Deck Clearance (in): .020 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Piston Sot	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Filmed	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
381	8-H124CL 20	11.23	10.90	10.48	10.04	9.64	9.27	428	-5.0		R-9902 20	R-9771 25	Yes	Included
383	8-H124CL 30	11.28	10.95	10.53	10.08	9.68	9.31	432	-5.0	R-8902 30	R-9902 30	R-9771 35	Yes	Included
385	8-H124CL 40	11.32	11.00	10.57	10.13	9.72	9.35	436	-5.0	R-8902 40	R-9902 40	R-9771 45	Yes	Included
389	8-H124CL 60	11.42	11.09	10.66	10.21	9.81	9.43	444	-5.0	R-8902 60	R-9902 60	R-9771 65	Yes	Included
	Application Notes	Match	ed set o	f 8: DUB	OSHIFI	D [®] skirt	coated	piston: Ta	pered liah	tweight pin				



SPEED-PRO Hypereutectic Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: .240 dome; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.130 Deck Clearance (in): .020 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 381 383 385	8-H134CL 8-H134CL 20 8-H134CL 30 8-H134CL 40	13.97 14.10 14.16 14.22	13.45 13.57 13.63 13.68	12.79 12.90 12.95 13.01	12.11 12.21 12.27 12.32	11.50 11.60 11.65 11.70	10.96 11.06 11.10 11.15	432 440 444 448	11.8 11.8 11.8 11.8	R-8902 R-8902 30 R-8902 40	R-9902 R-9902 20 R-9902 30 R-9902 40	R-9771 5 R-9771 25 R-9771 35 R-9771 45	Yes Yes Yes Yes	Included Included Included Included

Application Notes: CNC machined; Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston

400 Based Engines (4.125 Bore x 3.750 Stroke)

Dome Shape: .115 dish; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144



	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitterd	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
400 405 407 409 413	H601P H601P 20 H601P 30 H601P 40 H601P 60	10.65 10.74 10.78 10.83 10.92	10.38 10.46 10.51 10.55 10.63	10.02 10.10 10.14 10.18 10.27	9.64 9.72 9.76 9.80 9.88	9.29 9.37 9.40 9.44 9.52	8.97 9.04 9.08 9.11 9.19	597 607 612 617 627	-12.5 -12.5 -12.5 -12.5 -12.5 -12.5	E-243K E-243K 20 E-243K 30 E-243K 40 E-243K 60	 R-10374 30 R-10374 60	R-5879 5 R-5879 35 R-5879 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #													
400 405 407 409 413	WH601P WH601P 20 WH601P 30 WH601P 40 WH601P 60	10.65 10.74 10.78 10.83 10.92	10.38 10.46 10.51 10.55 10.63	10.02 10.10 10.14 10.18 10.27	9.64 9.72 9.76 9.80 9.88	9.29 9.37 9.40 9.44 9.52	8.97 9.04 9.08 9.11 9.19	597 607 612 617 627	-12.5 -12.5 -12.5 -12.5 -12.5	The ring se numbers al	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes Yes Yes	N/R N/R N/R N/R



SPEED-PRO Hypereutectic Pistons

400 Based Engines (4.125 Bore x 3.750 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144

	Diston Sot	Co	mpress	sion Rati	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitterd	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
400	H400CP	11.45		10.71	10.27	9.87	9.50	610	-6.0	E-243K		R-5879 5	Yes	N/R
405	H400CP 20	11.55		10.80	10.36	9.95	9.58	620	-6.0	E-243K 20			Yes	N/R
407	H400CP 30	11.59		10.84	10.40	9.99	9.62	625	-6.0	E-243K 30	R-10374 30	R-5879 35	Yes	N/R
409	H400CP 40	11.64		10.89	10.44	10.03	9.66	630	-6.0	E-243K 40			Yes	N/R
413	H400CP 60	11.74		10.98	10.53	10.13	9.74	640	-6.0	E-243K 60	R-5879 65	Yes	N/R	
	Singe Piston Part #								-					•
400	WH400CP	11.45		10.71	10.27	9.87	9.50	610	-6.0				Yes	N/R
405	WH400CP 20	11.55		10.80	10.36	9.95	9.58	620	-6.0	The ring on	to listed for the "Dis	ton Cot" nort	Yes	N/R
407	WH400CP 30	11.59		10.84	10.40	9.99	9.62	625	-6.0	The fing se	is listed for the sized	ion Sei pari	Yes	N/R
409	WH400CP 40	11.64		10.89	10.44	10.03	9.66	630	-6.0	numbers al	e pistoris.	Yes	N/R	
413	WH400CP 60	11.74		10.98	10.53	10.13	9.74	640	-6.0				Yes	N/R
			- · · · - · - ·											

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: .115 dish; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Picton Sot	Co	mpress	ion Rati	o by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
400	H615CP	10.65	10.38	10.02	9.64	9.29	8.97	569	-12.5	E-243K		R-5879 5	Yes	Included
405	H615CP 20	10.74 10.46 10.10 9.72 9.37 10.78 10.51 10.14 9.76 9.40 10.82 10.55 10.14 9.76 9.40						574	-12.5	E-243K 20			Yes	Included
407	H615CP 30	10.78	10.51	10.14	9.76	9.40	9.08	579	-12.5	E-243K 30	R-10374 30	R-5879 35	Yes	Included
409	H615CP 40	10.83	10.55	10.18	9.80	9.44	9.11	584	-12.5	E-243K 40			Yes	Included
413	H615CP 60	10.78 10.51 10.14 9.76 9.40 10.83 10.55 10.18 9.80 9.44 10.92 10.63 10.27 9.88 9.52					9.19	594	-12.5	E-243K 60	R-10374 60	R-5879 65	Yes	Included
	Singe Piston Part #													
400	WH615CP	10.65	10.38	10.02	9.64	9.29	8.97	569	-12.5				Yes	Included
405	WH615CP 20	10.74	10.46	10.10	9.72	9.37	9.04	574	-12.5	The ring of	listed for the "Dis	ton Cotll nort	Yes	Included
407	WH615CP 30	10.78	10.51	10.14	9.76	9.40	9.08	579	-12.5	The ring se		ion Set pan	Yes	Included
409	WH615CP 40	10.83	10.55	10.18	9.80	9.44	9.11	584	-12.5	numbers als	so service the single	e pistons.	Yes	Included
413	WH615CP 60	10.92	10.63	10.27	9.88	9.52	9.19	594	-12.5				Yes	Included
	Application Notes	: DURO	SHIELD	® skirt c	oated pi	ston								



SPEED-PRO Hypereutectic Pistons

400 Based Engines (4.125 Bore x 3.750 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sot	Co	mpress	sion Rati	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	City of	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
400	H616CP	11.45		10.71	10.27	9.87	9.50	578	-6.0	E-243K		R-5879 5	Yes	Included
405	H616CP 20	11.55		10.80	10.36	9.95	9.58	588	-6.0	E-243K 20			Yes	Included
407	H616CP 30	11.59		10.84	10.40	9.99	9.62	593	-6.0	E-243K 30	R-10374 30	R-5879 35	Yes	Included
409	H616CP 40	11.64		10.89	10.44	10.03	9.66	598	-6.0	E-243K 40			Yes	Included
413	H616CP 60	11.74		10.98	10.53	10.13	9.74	608	-6.0	E-243K 60	R-10374 60	R-5879 65	Yes	Included
	Singe Piston Part #													
400	WH616CP	11.45		10.71	10.27	9.87	9.50	578	-6.0				Yes	Included
405	WH616CP 20	11.55		10.80	10.36	9.95	9.58	588	-6.0	The ring on	to listed for the "Dis	ton Cot" nort	Yes	Included
407	WH616CP 30	11.59		10.84	10.40	9.99	9.62	593	-6.0	The ning se			Yes	Included
409	WH616CP 40	11.64		10.89	10.44	10.03	9.66	598	-6.0	numbers al	so service the single	e pistons.	Yes	Included
413	WH616CP 60	11.74		10.98	10.53	10.13	9.74	608	-6.0				Yes	Included

Application Notes: DUROSHIELD® skirt coated piston

Dome Shape: .100 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sat	Co	mpress	ion Rati	io by Cy	Head	00	Piston	Dome	SPE	ED-PRO Ring Set	Part #		
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
407 409	H107CP 30 H107CP 40	13.05 13.10	12.63 12.68	12.09 12.14	11.53 11.57	11.02 11.07	10.56 10.60	576 581	3.5 3.5	R-8375 30 R-8375 40	R-10375 30 R-10375 40	R-10248 35 	Yes Yes	Included Included
	Singe Piston Part #													
407 409	WH107CP 30 WH107CP 40	13.05 13.10	12.63 12.68	12.09 12.14	11.53 11.57	11.02 11.07	10.56 10.60	576 581	3.5 3.5	The ring set numbers als	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes	Included Included
	Application Notes	Lightw	eight; D	UROSH	IELD® s	kirt coate	ed pistor	n; CNC ma	achined					



SPEED-PRO Hypereutectic Pistons

400 Based Engines (4.125 Bore x 3.750 Stroke)



Dome Shape: .100 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Piston Sot	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filmed	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
407 409 413	H623CP 30 H623CP 40 H623CP 60	13.05 13.10 13.21	12.63 12.68 12.78	12.09 12.14 12.24	11.53 11.57 11.67	11.02 11.07 11.16	10.56 10.60 10.69	564 569 579	3.5 3.5 3.5	E-243K 30 R-10374 30 R-5879 35 E-243K 40 E-243K 60 R-10374 60 R-5879 65		R-5879 35 R-5879 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
407 409 413	WH623CP 30 WH623CP 40 WH623CP 60	13.05 13.10 13.21	12.63 12.68 12.78	12.09 12.14 12.24	11.53 11.57 11.67	11.02 11.07 11.16	10.56 10.60 10.69	564 569 579	3.5 3.5 3.5	The ring set numbers als	s listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes	Included Included Included

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: .200 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
407 409 413	H634CP 30 H634CP 40 H634CP 60	 	13.69 13.75 13.86	13.05 13.10 13.21	12.39 12.44 12.54	11.80 11.85 11.94	11.27 11.31 11.41	586 591 601	9.5 9.5 9.5	E-243K 30 E-243K 40 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
407 409 413	WH634CP 30 WH634CP 40 WH634CP 60	 	13.69 13.75 13.86	13.05 13.10 13.21	12.39 12.44 12.54	11.80 11.85 11.94	11.27 11.31 11.41	586 591 601	9.5 9.5 9.5	The ring se numbers al	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes	Included Included Included
	Application Notes:	DURC	SHIELD)® skirt c	oated pi	ston								



Cł	nevrolet	Sma	all B	lock	C - COI	nt'd.								
SP	EED-PRO Hy	ypere	utect	ic Pis	tons									
400) Based Eng	ines	(4.125	5 Bore	e x 3.7	750 St	t roke))						
	Dome Shape: Fla Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (ir	nt; 2 relie in): 6.00 ance (in n): .020 n): .001	ofs 00): 1.130) 5			Ring: Pin S Pin D Pin V	s: 1/16, Style: Pr Diameter Veight (s	1/16, 3/16 ress or Flo r (in): 0.92 grams): 1	5 vat ▲ 27 14		300		60	
	Piston Set	Co	Part #	Fitted	Lock									
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
407 413	8-H122CL 30 8-H122CL 60	11.89 12.03	11.54 11.69	11.09 11.23	10.63 10.76	10.20 10.33	9.81 9.93	457 469	-5.0 -5.0	R-8375 30 R-8375 60	R-10375 30 	R-10248 35 R-10248 65	Yes Yes	Included Included
	Application Notes:	Matche	ed set of	f 8; DUR	OSHIEL	.D® skirt	coated	piston; Ta	pered ligh	ntweight pin				
400) Based Eng	ines	Destr	oked	Using	g a 35	0 Cra	nk (4.1	25 Bo	re x 3.480	Stroke)			
	Dome Shape: Fla Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (ir	ut; 2 relie in): 5.7(ance (in n): .025 n): .001	ofs 00): 1.560 5			Ring: Pin S Pin D Pin V	s: 5/64, Style: Pr Diameter Veight (g	5/64, 3/16 ress or Flo r (in): 0.92 grams): 1:	6 Pat ▲ 27 33				00	
	Piston Set	Co	mpress	ion Rati	o by Cy	I Head (CC	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Fitted	Lock
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
372 377	H869CP H869CP 30	10.90	10.59	10.18	9.76	9.38 9.49	9.02	577 592	-5.0	E-243K	 B-10374.30	R-5879 5 R-5879 35	Yes	Included
379	H869CP 40	11.08	10.76	10.35	9.92	9.53 9.61	9.17	597 607	-5.0	E-243K 40	 R-10374.60	 R-5870.65	Yes	Included
000	Application Notes:	: Lightw	eight pir	n; DURO	SHIELD	® skirt c	111001400	11 007 0 00	100	monuadu				



Chevrolet Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

400 Based Engines Destroked Using a 350 Crank (4.125 Bore x 3.480 Stroke)





Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Piston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 379 383	H870CP 30 H870CP 40 H870CP 60	12.28 12.33 12.43	11.88 11.93 12.03	11.37 11.42 11.51	10.84 10.89 10.98	10.37 10.41 10.49	9.93 9.97 10.05	602 607 617	3.5 3.5 3.5	E-243K 30 E-243K 40 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes Yes	Included Included Included

Application Notes: Lightweight pin; DUROSHIELD® skirt coated piston



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.260 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Diston Sot	Co	mpress	ion Rati	o by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 379	8-H123CL 30 8-H123CL 40	11.03 11.08	10.72 10.76	10.31 10.35	9.88 9.92	9.49 9.53	9.13 9.17	470 484	-5.0 -5.0			R-10202 35 R-10202 45	Yes Yes	Included Included
	Application Notes:	CNC n	nachine	d; Lightw	eight; T	apered I	ightweig	ht pin; DU	IROSHIEL	.D® skirt coated	d piston			



Chevrolet Small Block - cont'd. **SPEED-PRO Hypereutectic Pistons** 400 Based Engines Destroked Using a 350 Crank (4.125 Bore x 3.480 Stroke) Dome Shape: .120 dome; 2 reliefs Rings: 1/16, 1/16, 1/8 Con Rod Length (in): 6.000 Pin Style: Press or Float Compression Distance (in): 1.260 Pin Diameter (in): 0.927 Deck Clearance (in): .025 Pin Weight (grams): 114 Skirt Clearance (in): .0015 **Compression Ratio by Cyl Head CC** SPEED-PRO Ring Set Part # Piston Dome Piston Set Fitted Lock Moly Plasma-Molv CID Weight Volume Plasma-Moly Part # 58.0 60.5 64.0 68.0 72.0 76.0 Pin Ring (grams) (cc) Rings **Direct Fit Rings** File Fit Rings 377 8-H125CL 30 12.28 11.88 11.37 10.84 10.37 9.93 514 3.5 R-10202 35 Yes Included Application Notes: CNC machined; Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston SPEED-PRO POWERFORGED Pistons 302 Based Engines (4.000 Bore x 3.000 Stroke) Dome Shape: .430 dome Rings: 1/16, 1/16, 1/8 Con Rod Length (in): 5.700 Pin Style: Press or Float ▲ Compression Distance (in): 1.805 Pin Diameter (in): 0.927 Deck Clearance (in): .020 Pin Weight (grams): 159 Skirt Clearance (in): .0050 **Compression Ratio by Cyl Head CC** SPEED-PRO Ring Set Part # Piston Dome Piston Set Fitted Lock CID Weight Volume Moly Plasma-Moly Plasma-Moly Part # 58.0 60.5 64.0 68.0 72.0 76.0 Pin Ring (grams) (cc) Rings **Direct Fit Rings** File Fit Rings L-2210AF 30 R-9968 30 R-9342 35 306 13.24 12.05 11.37 10.78 10.25 631 15.4 Yes Included -----311 L-2210AF 60 13.41 ---12.20 11.52 10.91 10.38 647 15.2 ---R-9968 60 R-9342 65 Yes Included Singe Piston Part # WL-2210AF 30 WR-9342 35 306 13.24 12.05 11.37 10.78 10.25 631 15.4 Yes Included --------311 WL-2210AF 60 13.41 ---12.20 11.52 10.91 10.38 647 15.2 Yes Included Application Notes: 60 O/S has .410 dome; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog



SPEED-PRO POWERFORGED Pistons

302 Based Engines (4.000 Bore x 3.000 Stroke)



G



Dome Shape: .350 dome Con Rod Length (in): 6.000 Compression Distance (in): 1.550 Deck Clearance (in): .000 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Piston Sot	Co	mpress	sion Rati	io by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Look
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
306 307 311	8LW-2503F 30 8LW-2503F 40 8LW-2503F 60	 	 	11.74 11.76 11.90	11.05 11.08 11.20	10.44 10.47 10.59	9.91 9.93 10.04	528 555 540	14.3 14.3 14.3	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9401 35 (L) R-9401 45 (L) R-9401 65 (L)	Yes Yes Yes	Included Included Included
	Application Notes:	Matche	ed set o	f 8; Light	weight;	Tapered	lightwei	ight pin; C	NC mach	ined; DUROSH	IELD [®] skirt coate	ed piston; Dome r	nachining	req'd

327 Based Engines (4.000 Bore x 3.250 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.671 Deck Clearance (in): .029 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144

		Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #		
CID	Piston Set Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
327 330 332 333 337	L-2165F L-2165F 20 L-2165F 30 L-2165F 40 L-2165F 60	9.57 9.65 9.69 9.73 9.81	 	8.96 9.03 9.07 9.11 9.18	8.60 8.67 8.71 8.74 8.81	8.27 8.34 8.37 8.41 8.47	7.97 8.03 8.06 8.10 8.16	600 609 614 619 628	-5.4 -5.4 -5.4 -5.4 -5.4	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #													
327 330 332 333 333 337	WL-2165F WL-2165F 20 WL-2165F 30 WL-2165F 40 WL-2165F 60	9.57 9.65 9.69 9.73 9.81	 	8.96 9.03 9.07 9.11 9.18	8.60 8.67 8.71 8.74 8.81	8.27 8.34 8.37 8.41 8.47	7.97 8.03 8.06 8.10 8.16	600 609 614 619 628	-5.4 -5.4 -5.4 -5.4 -5.4	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed f	or the "Pis	ston Set" part ni	umbers also serv	ice the single pis	tons.	

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO POWERFORGED Pistons

327 Based Engines (4.000 Bore x 3.250 Stroke)

Dome Shape: .125 dome; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.675 Deck Clearance (in): .025 Skirt Clearance (in): .0035 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144



	Diston Sat	Co	mpress	sion Rati	o by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitterd	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
327 330 332 333 337	L-2166NF L-2166NF 20 L-2166NF 30 L-2166NF 40 L-2166NF 60	11.06 11.15 11.20 11.24 11.34		10.23 10.31 10.35 10.40 10.48	9.74 9.82 9.87 9.91 9.99	9.31 9.39 9.43 9.46 9.54	8.92 8.99 9.03 9.06 9.14	576 585 590 595 603	5.3 5.3 5.3 5.3 5.3	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R
	Singe Piston Part #													
327 330 332 333 333 337	WL-2166NF WL-2166NF 20 WL-2166NF 30 WL-2166NF 40 WL-2166NF 60	11.06 11.15 11.20 11.24 11.34	 	10.23 10.31 10.35 10.40 10.48	9.74 9.82 9.87 9.91 9.99	9.31 9.39 9.43 9.46 9.54	8.92 8.99 9.03 9.06 9.14	576 585 590 595 603	5.3 5.3 5.3 5.3 5.3	WE-251K WE-251K 30 WE-251K 40 WE-251K 60		 WR-9343 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ston Set" part nu	umbers also servi	ice the single pis	tons.	

Dome Shape: Dish Con Rod Length (in): 5.800 Compression Distance (in): 1.560 Deck Clearance (in): .040 Skirt Clearance (in): .0050 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159



											00			
	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Filmed	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
327 332	L-2441F L-2441F 30	7.97 8.06		7.56 7.65	7.31 7.40	7.08 7.17	6.87 6.95	546 561	-21.1 -21.1	E-251K E-251K 30	R-9903 R-9903 30	R-9343 5 R-9343 35	Yes Yes	Included Included
	Singe Piston Part #													
327 332	WL-2441F WL-2441F 30	7.97 8.06		7.56 7.65	7.31 7.40	7.08 7.17	6.87 6.95	546 561	-21.1 -21.1	WE-251K WE-251K 30		 WR-9343 35	Yes Yes	Included Included
	Application Notes: the single pistons.	Super	charged	or turbo	charged	; DURO	SHIELD	® skirt coa	ated pistor	n; The ring sets	listed for the "Pis	ston Set" part nur	nbers also	service



SPEED-PRO POWERFORGED Pistons

327 Based Engines (4.000 Bore x 3.250 Stroke)



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	2	
U	1	U

Dome Shape: .350 dome Con Rod Length (in): 5.850 Compression Distance (in): 1.550 Deck Clearance (in): .000 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Diston Sat	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Either d	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
332 333 337	8LW-2503F 30 8LW-2503F 40 8LW-2503F 60	 		12.63 12.66 12.81	11.89 11.91 12.05	11.23 11.26 11.38	10.65 10.68 10.79	528 555 540	14.3 14.3 14.3	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9401 35 (L) R-9401 45 (L) R-9401 65 (L)	Yes Yes Yes	Included Included Included
	Application Notes:	Match	ed set o	f 8; Light	weight;	Tapered	lightwei	ight pin; C	NC mach	ined; DUROSH	IELD [®] skirt coate	d piston; Dome r	nachining	req'd

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: Dish Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0050 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

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	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 355	L-2441F L-2441F 30	8.71 8.82		8.24 8.35	7.96 8.06	7.70 7.80	7.46 7.55	546 561	-21.1 -21.1	E-251K E-251K 30	R-9903 R-9903 30	R-9343 5 R-9343 35	Yes Yes	Included Included
	Singe Piston Part #													
350 355	WL-2441F WL-2441F 30	8.71 8.82		8.24 8.35	7.96 8.06	7.70 7.80	7.46 7.55	546 561	-21.1 -21.1	WE-251K WE-251K 30		 WR-9343 35	Yes Yes	Included Included
	Application Notes: the single pistons.	Superc	charged	or turbo	charged	; DURO	SHIELD	skirt coa	ted pistor	n; The ring sets	listed for the "Pis	ston Set" part nur	nbers also	service

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: Dish Con Rod Length (in): 5.700 Compression Distance (in): 1.550 Deck Clearance (in): .035 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



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	Diaton Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 360	LW-2603F 30 LW-2603F 60	9.53 9.64	9.28 9.40	8.97 9.08	8.63 8.74	8.32 8.43	8.04 8.14	488 503	-10.9 -10.9	R-8902 30 R-8902 60	R-9902 30 R-9902 60	R-9401 35 (L) R-9401 65 (L)	Yes Yes	Included Included
	Singe Piston Part #													
355 360	WLW-2603F 30 WLW-2603F 60	9.53 9.64	9.28 9.40	8.97 9.08	8.63 8.74	8.32 8.43	8.04 8.14	488 503	-10.9 -10.9		WR-9902 30 		Yes Yes	Included Included

Application Notes: Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.550 Deck Clearance (in): .035 Skirt Clearance (in): .0025

Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	ED-PRO Ring Set	Part #	Fitterd	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 356	LW-2505NF 30 LW-2505NF 40	10.20 10.24	9.92 9.96	9.55 9.59	9.17 9.20	8.82 8.85	8.49 8.53	521 525	-4.86 -4.86	E-921K 30 E-921K 40		R-10701 35 R-10701 45	Yes Yes	Included Included

Application Notes: DUROSHIELD® skirt coated piston

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.550 Deck Clearance (in): .035 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



	Diston Sot	Со	mpress	ion Rati	io by Cy	I Head	00	Piston	Dome	SPE	ED-PRO Ring Set	: Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 360	8LW-2505F 30 8LW-2505F 60	10.30 10.43	9.83 9.95	9.47 9.58	9.09 9.20	8.75 8.85	8.43 8.53	493 508	-5.9 -5.9	R-8902 30 R-8902 60	R-9902 30 R-9902 60	R-9401 35 (L) R-9401 65 (L)	Yes Yes	Included Included
	Application Notes:	Matche	ed set of	f 8: Liaht	weight:	CNC ma	chined:	Tapered I	iahtweiah	t pin: DUROSH	IIFI D [®] skirt coate	d piston		

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▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.563 Deck Clearance (in): .022 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 144

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350	L-2256F	10.27		9.60	9.21	8.85	8.52	596	-6.1	E-251K	R-9903	R-9343 5	Yes	N/R
353	L-2256F 20	10.35		9.68	9.28	8.92	8.59	603	-6.1	E-251K 20	R-9903 20	R-9343 25	Yes	N/R
355	L-2256F 30	10.40		9.72	9.32	8.96	8.62	607	-6.1	E-251K 30	R-9903 30	R-9343 35	Yes	N/R
356	L-2256F 40	10.44		9.76	9.36	9.00	8.66	611	-6.1	E-251K 40		R-9343 45	Yes	N/R
360	L-2256F 60	10.53		9.85	9.44	9.07	8.73	618	-6.1	E-251K 60	R-9903 60	R-9343 65	Yes	N/R
	Singe Piston Part #													
350	WL-2256F	10.27		9.60	9.21	8.85	8.52	596	-6.1	WE-251K			Yes	N/R
353	WL-2256F 20	10.35		9.68	9.28	8.92	8.59	603	-6.1				Yes	N/R
355	WL-2256F 30	10.40		9.72	9.32	8.96	8.62	607	-6.1	WE-251K 30		WR-9343 35	Yes	N/R
356	WL-2256F 40	10.44		9.76	9.36	9.00	8.66	611	-6.1	WE-251K 40			Yes	N/R
360	WL-2256F 60	10.53		9.85	9.44	9.07	8.73	618	-6.1	WE-251K 60			Yes	N/R

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.563 Deck Clearance (in): .022 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 126

	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #		
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355	LW-2256F 30	10.40		9.72	9.32	8.96	8.62	554	-6.1	R-8902 30	R-9902 30	R-9401 35 (L)	Yes	Included
356	LW-2256F 40	10.44		9.76	9.36	9.00	8.66	559	-6.1	R-8902 40	R-9902 40	R-9401 45 (L)	Yes	Included
360	LW-2256F 60	10.53		9.85	9.44	9.07	8.73	566	-6.1	R-8902 60	R-9902 60	R-9401 65 (L)	Yes	Included
	Singe Piston Part #													
355	WLW-2256F 30	10.40		9.72	9.32	8.96	8.62	554	-6.1		WR-9902 30		Yes	Included
356	WLW-2256F 40	10.44		9.76	9.36	9.00	8.66	559	-6.1				Yes	Included
360	WLW-2256F 60	10.53		9.85	9.44	9.07	8.73	566	-6.1				Yes	Included
	Application Notes	Lightwo	eight; Li	ightweigl	ht pin; D	UROSH	IELD® s	kirt coated	d piston; T	he ring sets lis	sted for the "Pistor	Set" part numbe	ers also se	ervice

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.565 Deck Clearance (in): .020 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Diston Sot	Co	mpress	ion Rati	o by Cy	I Head (00	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Fitted	Leek
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 355 360	L-2490NF L-2490NF 30 L-2490NF 60	10.66 10.79 10.93	 	9.93 10.06 10.19	9.51 9.63 9.75	9.12 9.24 9.36	8.77 8.88 8.99	478 490 503	-3.4 -3.4 -3.4	R-8902 R-8902 30 R-8902 60	R-9902 R-9902 30 R-9902 60	R-9401 5 (L) R-9401 35 (L) R-9401 65 (L)	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
355 360	WL-2490NF 30 WL-2490NF 60	10.79 10.93		10.06 10.19	9.63 9.75	9.24 9.36	8.88 8.99	490 503	-3.4 -3.4		WR-9902 30		Yes Yes	Included Included
	Annilianting Materi			ماستام ۱		ata a Th		بليه الملم ما ال				and the strend state		

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: .100 dome Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Diston Sot	Co	mpress	sion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350	L-2304F	11.26		10.50	10.02	9.59	9.19	571	2.4	E-251K	R-9903	R-9343 5	Yes	N/R
355	L-2304F 30	11.40		10.63	10.15	9.71	9.31	583	2.4	E-251K 30	R-9903 30	R-9343 35	Yes	N/R
360	L-2304F 60	11.55		10.77	10.27	9.83	9.43	597	2.4	E-251K 60	R-9903 60	R-9343 65	Yes	N/R
	Singe Piston Part #													
350	WL-2304F	11.26		10.50	10.02	9.59	9.19	571	2.4	WE-251K			Yes	N/R
355	WL-2304F 30	11.40		10.63	10.15	9.71	9.31	583	2.4	WE-251K 30		WR-9343 35	Yes	N/R
360	WL-2304F 60	11.55		10.77	10.27	9.83	9.43	597	2.4	WE-251K 60			Yes	N/R
	Application Notes	: DURO	SHIELD)® skirt c	oated pis	ston; Th	e ring se	ets listed for	or the "Pis	ston Set" part n	umbers also serv	ice the single pis	tons.	

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▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)



200

G

Dome Shape: .100 dome Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0040

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Diston Sot	Co	mpress	sion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	City of	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
356	LW-2304F 40	11.50		10.66	10.18	9.74	9.34	542	2.4	R-8902 40	R-9902 40	R-9401 45 (L)	Yes	Included
	Application Notes	: Lightwo	eight; D	UROSH	IELD® sl	kirt coat	ed pistor	า						



Dome Shape: .220 dome Con Rod Length (in): 5.700 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Diston Sot	Co	mpress	ion Rat	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 356 360	L-2252YF 30 L-2252YF 40 L-2252YF 60	12.94 12.94 12.95		11.87 11.88 11.89	11.26 11.27 11.28	10.71 10.72 10.74	10.22 10.23 10.25	601 606 617	11.0 10.6 10.2		R-9968 30 R-9968 40 R-9968 60	R-9342 35 R-9342 45 R-9342 65	Yes Yes Yes	Included Included Included
Singe Piston Part #														
355 360	WL-2252YF 30 WL-2252YF 60	12.94 12.95		11.87 11.89	11.26 11.28	10.71 10.74	10.22 10.25	601 617	11.0 10.2			WR-9342 35 	Yes Yes	Included Included
	Application Notes numbers also services	: 40 O/S vice the s	has .2 [°] single p	13 dome istons.	; 60 O/S	has .20	0 dome;	DUROSH	HELD® sk	irt coated pisto	n; The ring sets li	isted for the "Pist	on Set" pa	ırt

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)

Dome Shape: .350 dome Con Rod Length (in): 5.700 Compression Distance (in): 1.550 Deck Clearance (in): .035 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Leek
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 356 360	8LW-2503F 30 8LW-2503F 40 8LW-2503F 60	 	 	12.07 12.09 12.22	11.43 11.46 11.57	10.87 10.89 11.00	10.36 10.38 10.49	528 555 540	14.3 14.3 14.3	R-8902 30 R-8902 40 R-8902 60	R-9902 30 R-9902 40 R-9902 60	R-9401 35 (L) R-9401 45 (L) R-9401 65 (L)	Yes Yes Yes	Included Included Included

Application Notes: Matched set of 8; Lightweight; Tapered lightweight pin; CNC machined; DUROSHIELD® skirt coated piston

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.250 Deck Clearance (in): .035 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



6000

	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	F 111.1	
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
360	8LW-2511F 60	10.23		9.58	9.20	8.85	8.53	415	-5.9	R-8902 60	R-9902 60	R-9401 65 (L)	Yes	Included
	A collection Martine	Maria						T				an a Sana a		

Application Notes: Matched set of 8; Lightweight; CNC machined; Tapered lightweight pin; DUROSHIELD® skirt coated piston

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.250 Deck Clearance (in): .035 Skirt Clearance (in): .0025 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEI	ED-PRO Ring Set	t Part #	Fitted	Laak
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 356 360	LW-2511NF 30 LW-2511NF 40 LW-2511NF 60	10.20 10.24 10.32	9.92 9.96 10.04	9.55 9.59 9.67	9.17 9.20 9.28	8.82 8.85 8.92	8.49 8.53 8.60	470 474 485	-4.86 -4.86 -4.86	E-921K 30 E-921K 40 E-921K 60	 	R-10701 35 R-10701 45 R-10701 65	Yes Yes Yes	Included Included Included
	Application Notes	DURO	SHIELD	® skirt c	oated pi	ston								

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▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.



SPEED-PRO POWERFORGED Pistons

350 Based Engines (4.000 Bore x 3.480 Stroke)





Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

C	U	C	U

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitterd	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355	LW-2626F 30	11.46		10.63	10.15	9.71	9.31	472	2.4	E-921K 30		R-10603 35	Yes	Included
356	LW-2626F 40	11.51		10.68	10.19	9.75	9.35	477	2.4	E-921K 40		R-10603 45	Yes	Included
360	LW-2626F 60	11.61		10.77	10.27	9.83	9.43	486	2.4	E-921K 60		R-10603 65	Yes	Included
	Singe Piston Part #													
355	WLW-2626F 30	11.46		10.63	10.15	9.71	9.31	472	2.4		WR-9902 30		Yes	Included

Application Notes: Matched set of 8; Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.



Dome Shape: .190 Dome; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.250 Deck Clearance (in): .035 Skirt Clearance (in): .0025 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Diston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	E 111.1	
CID	CID Piston Set Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
355 356	LW-2509NF 30 LW-2509NF 40	11.67 11.71	11.29 11.34	10.80 10.85	10.30 10.34	9.85 9.89	9.44 9.48	501 505	6.02 6.02	E-921K 30 E-921K 40		R-10701 35 R-10701 45	Yes Yes	Included Included

Application Notes: DUROSHIELD® skirt coated piston



200

Dome Shape: .350 dome Con Rod Length (in): 6.000 Compression Distance (in): 1.250 Deck Clearance (in): .035 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Diston Sot	Co	mpress	sion Rati	io by Cy	I Head (00	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	CID Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355 360	8LW-2509F 30 8LW-2509F 60			12.07 12.22	11.43 11.57	10.87 11.00	10.36 10.74	453 465	14.3 14.3	R-8902 30 R-8902 60	R-9902 30 R-9902 60	R-9401 35 (L) R-9401 65 (L)	Yes Yes	Included Included
	Application Notes:	Matche	ed set o	f 8; Light	weight;	CNC ma	chined;	Tapered I	ightweigh	t pin; DUROSH	IELD [®] skirt coate	ed piston		

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO POWERFORGED Pistons

350 Based Engines Using An Offset Ground 350 Crank (4.000 Bore x 3.5625 Stroke) "3-9/16 Stroker"

Dome Shape: .350 dome Con Rod Length (in): 5.700 Compression Distance (in): 1.550 Deck Clearance (in): .000 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



CID	Eitherd Law	aak
CID	Pin Rir	ling
363 365 369	Yes Inclu Yes Inclu Yes Inclu	luded luded luded
369	Ľ)	L) Yes Inc

Application Notes: Matched set of 8; Lightweight; Tapered lightweight pin; CNC machined; DUROSHIELD® skirt coated piston; Dome machining req'd

Dome Shape: .350 dome Con Rod Length (in): 6.000 Compression Distance (in): 1.250 Deck Clearance (in): .000 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



50

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Eiste d	Lask
CID	Piston Set Part # 8LW-2509F 30	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
363 369	8LW-2509F 30 8LW-2509F 60			13.74 13.93	12.93 13.10	12.21 12.37	11.57 11.73	453 465	14.3 14.3	R-8902 30 R-8902 60	R-9902 30 R-9902 60	R-9401 35 (L) R-9401 65 (L)	Yes Yes	Included Included
	Application Notes: Matched set of 8; Dome machining reg'd; Tapered lightweight pin; DUROSHIELD® skirt coated piston													

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(L) Low Tension Plasma-Moly File Fit Rings.



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)





Dome Shape: Dish Con Rod Length (in): 5.565 Compression Distance (in): 1.560 Deck Clearance (in): .025 Skirt Clearance (in): .0050

Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

	Dicton Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Eitherd	Look	
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring	
377 383	L-2441F L-2441F 30	9.31 9.43		8.80 8.92	8.50 8.61	8.22 8.32	7.96 8.06	546 561	-21.1 -21.1	E-251K E-251K 30	R-9903 R-9903 30	R-9343 5 R-9343 35	Yes Yes	Included Included	
	33 L-2441F 30 9.43 8.92 8.61 8.32 8.06 561 -21.1 E-251K 30 R-9903 30 R-9343 35 Yes Included Singe Piston Part #														
377 383	WL-2441F WL-2441F 30	9.31 9.43		8.80 8.92	8.50 8.61	8.22 8.32	7.96 8.06	546 561	-21.1 -21.1	WE-251K WE-251K 30		 WR-9343 35	Yes Yes	Included Included	
	Application Notes	DURO	SHIFI D)® skirt c	oated pi	ston: Th	e rina se	ets listed f	or the "Pis	ston Set" part n	umbers also serv	ice the single pis	tons.		

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.565 Deck Clearance (in): .020 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float **▲** Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Piston Sat	Со	mpress	sion Rati	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitterd	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 383 389	L-2490NF L-2490NF 30 L-2490NF 60	11.40 11.55 11.70		10.63 10.76 10.90	10.17 10.30 10.43	9.75 9.88 10.01	9.37 9.49 9.62	478 490 503	-3.4 -3.4 -3.4	R-8902 R-8902 30 R-8902 60	R-9902 R-9902 30 R-9902 60	R-9401 5 (L) R-9401 35 (L) R-9401 65 (L)	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
383 389	WL-2490NF 30 WL-2490NF 60	11.55 11.70		10.76 10.90	10.30 10.43	9.88 10.01	9.49 9.62	490 503	-3.4 -3.4		WR-9902 30 		Yes Yes	Included Included
	Application Notes:	DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ston Set" part i	numbers also servi	ice the single pist	tons.	

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO POWERFORGED Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.430 Deck Clearance (in): .020 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Diston Sat	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
377 383 385 388	L-2491NF L-2491NF 30 L-2491NF 40 L-2491NF 60	11.40 11.55 11.58 11.70	 	10.63 10.76 10.79 10.90	10.17 10.30 10.33 10.43	9.75 9.88 9.91 10.01	9.37 9.49 9.52 9.62	465 477 481 490	-3.4 -3.4 -3.4 -3.4	R-8902 R-8902 30 R-8902 40 R-8902 60	R-9902 R-9902 30 R-9902 40 R-9902 60	R-9401 5(L)R-9401 35(L)R-9401 45(L)R-9401 65(L)	Yes Yes Yes Yes	Included Included Included Included
	Singe Piston Part #													
383 388	WL-2491NF 30 WL-2491NF 60	11.55 11.70		10.76 10.90	10.30 10.43	9.88 10.01	9.49 9.62	477 490	-3.4 -3.4		WR-9902 30		Yes Yes	Included Included
	Application Notes	: DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ton Set" part r	numbers also serv	ice the single pis	tons.	•

Dome Shape: .350 dome Con Rod Length (in): 5.565 Compression Distance (in): 1.550 Deck Clearance (in): .035 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



	Piston Sot	Co	mpress	sion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Either d	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383	8LW-2503F 30			12.93	12.24	11.63	11.09	528	14.3	R-8902 30	R-9902 30	R-9401 35 (L)	Yes	Included
385	8LW-2503F 40			12.95	12.27	11.66	11.11	555	14.3	R-8902 40	R-9902 40	R-9401 45 (L)	Yes	Included
388	8LW-2503F 60			13.09	12.39	11.78	11.22	540	14.3	R-8902 60	R-9902 60	R-9401 65 (L)	Yes	Included
	Application Notes:	Match	ed set o	f 8; Light	tweight;	Tapered	lightwei	ight pin; C	NC mach	ined; DUROS	HIELD [®] skirt coate	ed piston		

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▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)



CID

360



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.850 Compression Distance (in): 1.250 Deck Clearance (in): .050 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

Plasma-Moly

File Fit Rings

R-9401 65 (L)

Fitted

Pin

Yes

Lock

Ring

Included

00	0	0									
Piston Sot	Co	mpress	ion Rat	io by Cy	/I Head	CC	Piston	Dome	SP	EED-PRO Ring Set	t Part #
Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasm File Fit
8LW-2511F 60	10.56	10.28	9.92	9.54	9.18	8.86	415	-5.9	R-8902 60	R-9902 60	R-9401
Application Notes	Match	ed set of	f 8; Ligh	tweight;	CNC ma	achined;	Tapered I	ightweigh	t pin; DUROS	SHIELD® skirt coate	ed piston



Dome Shape: .350 dome Con Rod Length (in): 5.850 Compression Distance (in): 1.250 Deck Clearance (in): .050 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

CID	Dicton Sot	Co	mpress	ion Rati	o by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fille d	Lask
	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 388	8LW-2509F 30 8LW-2509F 60			12.38 12.53	11.76 11.90	11.20 11.33	10.69 10.82	453 465	14.3 14.3	R-8902 30 R-8902 60	R-9902 30 R-9902 60	R-9401 35 (L) R-9401 65 (L)	Yes Yes	Included Included

Application Notes: Matched set of 8; Lightweight; CNC machined; Tapered lightweight pin; DUROSHIELD® skirt coated piston



Dome Shape: .115 Dish; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.125 Deck Clearance (in): .025 Skirt Clearance (in): .0025

Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133

	Diston Sat	Co	mpress	ion Rat	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Et la ch	
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383 385	LW-2617NF 30 LW-2617NF 40	9.65 9.69	9.41 9.45	9.11 9.15	8.79 8.82	8.49 8.53	8.21 8.25	442 446	-18.53 -18.53	E-921K 30 E-921K 40		R-10701 35 R-10701 45	Yes Yes	Included Included
	Application Notes:	DURO	SHIELD)® skirt c	oated pi	ston								

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SPEED-PRO POWERFORGED Pistons

383 Stroker; 350 Engines Using a 400 Crank (4.000 Bore x 3.750 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.125 Deck Clearance (in): .025 Skirt Clearance (in): .0025 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Diston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Final	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383	LW-2637NF 30	11.18	10.86	10.45	10.01	9.62	9.25	445	-4.86	E-921K 30		R-10701 35	Yes	Included
385	LW-2637NF 40	11.23	10.91	10.49	10.05	9.66	9.29	449	-4.86	E-921K 40		R-10701 45	Yes	Included
388	LW-2637NF 60	11.32	11.00	10.58	10.14	9.74	9.37	460	-4.86	E-921K 60		R-10701 65	Yes	Included

Application Notes: DUROSHIELD® skirt coated piston

Dome Shape: .088 Dome; 2 reliefs Con Rod Length (in): 6.000 Compression Distance (in): 1.125 Deck Clearance (in): .025 Skirt Clearance (in): .0025 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 133



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
383	LW-2627NF 30	12.02	11.65	11.16	10.66	10.21	9.79	461	1.0	E-921K 30		R-10701 35	Yes	Included
385 388	LW-2627NF 40 LW-2627NF 60	12.07 12.17	11.70 11.79	11.21 11.30	10.71 10.80	10.25 10.34	9.84 9.92	465 476	1.0 1.0	E-921K 40 E-921K 60		R-10/01 45 R-10701 65	Yes Yes	Included
	Application Notes:	DURO	SHIELD)® skirt c	oated pi	ston								

400 Based Engines (4.125 Bore x 3.750 Stroke)

Dome Shape: .083 dish; 4 reliefs Con Rod Length (in): 5.565 Compression Distance (in): 1.555 Deck Clearance (in): .030 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.927 Pin Weight (grams): 159



	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitterd	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
406 409 412	L-2352F 30 L-2352F 40 L-2352F 60	10.53 10.57 10.65		9.91 9.95 10.03	9.55 9.59 9.66	9.21 9.25 9.32	8.90 8.94 9.01	620 624 633	-14.0 -14.0 -14.0	E-243K 30 E-243K 40 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
406 409	WL-2352F 30 WL-2352F 40	10.53 10.57		9.91 9.95	9.55 9.59	9.21 9.25	8.90 8.94	620 624	-14.0 -14.0	The ring se numbers al	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes	N/R N/R
	Application Notes	: DURO	SHIELD)® skirt co	pated pi	ston								

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The sealed Power standard replacement parts catalog



Chevrolet Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

400 Based Engines (4.125 Bore x 3.750 Stroke)





Dome Shape: Dish Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lash
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
406 412	LW-2632F 30 LW-2632F 60	9.54 9.66		9.05 9.16	8.75 8.85	8.47 8.57	8.21 8.31	504 519	-25.0 -25.0	R-8375 30 R-8375 60	R-10375 30 	R-9346 35 (L) R-9346 65 (L)	Yes Yes	Included Included
														•

Application Notes: Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston



DGD

Dome Shape: Dish Con Rod Length (in): 5.700 Compression Distance (in): 1.425 Deck Clearance (in): .025 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 126

		Compression Ratio by Cyl Head CC		Piston	Dome	SPE	ED-PRO Ring Set	Part #						
CID	Piston Set Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
412	LW-2606F 60	10.50	10.24	9.90	9.54	9.21	8.90	550	-16.2	R-8375 60		R-9346 65 (L)	Yes	Included
	Singe Piston Part #													
406 412	WLW-2606F 30 WLW-2606F 60	10.38 10.50	10.12 10.24	9.78 9.90	9.43 9.54	9.10 9.21	8.80 8.90	535 550	-16.2 -16.2	The ring set numbers als	ts listed for the "Pisi so service the single	ton Set" part e pistons.	Yes Yes	Included Included
	Application Notes: Lightweight; Lightweight pin; DUROSHIELD® skirt coated piston													



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.700 Compression Distance (in): 1.430 Deck Clearance (in): .020 Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114

	00	0												
	Diston Sat	Compression Ratio by Cyl Head CC						Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Eithe d	Lask
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
406	8LW-2517F 30	11.80	11.46	11.02	10.56	10.14	9.76	513	-5.7	R-8375 30	R-10375 30	R-9346 35 (L)	Yes	Included
	Application Notes: Matched set of 8; Lightweight; CNC machined; Tapered lightweight pin; DUROSHIELD® skirt coated piston													

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	Cnevrolet Small Block - cont'd.													
SP	SPEED-PRO POWERFORGED Pistons													
400	400 Based Engines (4.125 Bore x 3.750 Stroke)													
	Dome Shape: .150 domeRings: 1/16,Con Rod Length (in): 5.700Pin Style: PiCompression Distance (in): 1.430Pin DiameteDeck Clearance (in): .020Pin Weight (in)Skirt Clearance (in): .0050						1/16, 3/16 ress or Flo r (in): 0.92 grams): 1	6 pat ▲ 27 14		C				
CID	Piston Set	Co	mpress	ion Rat	io by Cy	/I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lock
CID	Part #	58.0	60.5	64.0	68.0	72.0	76.0	(grams)	(cc)	Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
406	8LW-2515F 30	13.60	13.14	12.55	11.94	11.40	10.90	536	5.3	R-8375 30	R-10375 30	R-9346 35 (L)	Yes	Included
	Application Notes	: Matche	ed set o	f 8; CNC) machin	ied; Tap	ered ligh	ntweight pi	n; DURO	SHIELD [®] skirt	t coated piston			
Dome Shape: DishRings: 1.5MM, 1.5MM, 3.0MMCon Rod Length (in): 6.000Pin Style: Press or Float ▲Compression Distance (in): 1.125Pin Diameter (in): 0.927Deck Clearance (in): .025Pin Weight (grams): 114Skirt Clearance (in): .0050Skirt Clearance (in): .0050														
											000	5		
	Piston Set	Co	mpress	ion Rat	io by C	/I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Dart #	Fitted	Look
CID	Piston Set Part #	Co 58.0	mpress 60.5	tion Rat 64.0	io by Cy 68.0	/I Head 72.0	CC 76.0	Piston Weight (grams)	Dome Volume (cc)	SPE Moly Rings	ED-PRO Ring Set Plasma-Moly Direct Fit Rings	Part # Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
CID 409 412	Piston Set Part # LW-2629F 40 LW-2629F 60	Co 58.0 10.43 10.50	60.5	64.0 9.83 9.90	io by Cy 68.0 9.48 9.54	/l Head 72.0 9.15 9.21	CC 76.0 8.84 8.90	Piston Weight (grams) 475 486	Dome Volume (cc) -16.2 -16.2	SPE Moly Rings	ED-PRO Ring Set Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes	Lock Ring Included Included
CID 409 412	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes	Co 58.0 10.43 10.50 : Lightw	60.5	64.0 9.83 9.90 apered l	io by Cy 68.0 9.48 9.54 ightweig	/I Head 72.0 9.15 9.21 ht pin; D	CC 76.0 8.84 8.90 DUROSH	Piston Weight (grams) 475 486 IIELD [®] ski	Dome Volume (cc) -16.2 -16.2 irt coated	SPE Moly Rings piston	ED-PRO Ring Set Plasma-Moly Direct Fit Rings	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes	Lock Ring Included Included
CID 409 412 400	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng	Co 58.0 10.43 10.50 : Lightw gines	mpress 60.5 reight; Ta Destr	ion Rat 64.0 9.83 9.90 apered I oked	io by Cy 68.0 9.48 9.54 ightweig Using	/I Head 72.0 9.15 9.21 ht pin; D g a 35	CC 76.0 8.84 8.90 DUROSH	Piston Weight (grams) 475 486 IIELD® ski	Dome Volume (cc) -16.2 -16.2 irt coated	SPE Moly Rings piston ore x 3.480	ED-PRO Ring Set Plasma-Moly Direct Fit Rings	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes	Lock Ring Included Included
409 412 400	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .08 Con Rod Length (Compression Dist Deck Clearance (Skirt Clearance (i	Co 58.0 10.43 10.50 : Lightw 33 dish; 4 (in): 5.70 tance (in in): .030 n): .031	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555) 5	ion Rat 64.0 9.83 9.90 apered I oked	io by Cy 68.0 9.48 9.54 ightweig Using	/l Head 72.0 9.15 9.21 ht pin; D g a 35 Ring Pin S Pin I Pin V	CC 76.0 8.84 8.90 DUROSH 50 Cra (s: 5/64, Style: Pr Diameter Weight (g	Piston Weight (grams) 475 486 IIELD® ski IIELD® ski IIELD® ski IIELD® ski r (in): 0.92 grams): 1	Dome Volume (cc) -16.2 -16.2 irt coated 25 Bo 6 27 59	SPE Moly Rings piston pre x 3.480	ED-PRO Ring Set Plasma-Moly Direct Fit Rings D Stroke) Contemport	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes	Lock Ring Included
409 412 400	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .06 Con Rod Length (Compression Dist Deck Clearance (Skirt Clearance (i Piston Set	Co 58.0 10.43 10.50 : Lightw jines 33 dish; 4 (in): 5.7(tance (in in): .030 n): .001 Co	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555 5 mpress	ion Rat 64.0 9.83 9.90 apered I oked	io by Cy 68.0 9.48 9.54 ightweig Using	/l Head 72.0 9.15 9.21 ht pin; D g a 35 Ring Pin S Pin I Pin V	CC 76.0 8.84 8.90 DUROSH 50 Cra 50 Cra 9 () Style: Pi Diameter Weight (() Weight ()	Piston Weight (grams) 475 486 IIELD® ski IIELD® ski	Dome Volume (cc) -16.2 -16.2 irt coated 25 Bo	SPE Moly Rings piston ore x 3.480	ED-PRO Ring Set Plasma-Moly Direct Fit Rings D Stroke) C Stroke ED-PRO Ring Set	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes	Lock Ring Included
CID 409 412 400 CID	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .08 Con Rod Length (Compression Disl Deck Clearance (Skirt Clearance (Piston Set Part #	Co 58.0 10.43 10.50 : Lightw jines 33 dish; 4 (in): 5.70 tance (in in): .030 n): .001 Co 58.0	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555 5 5 mpress 60.5	ion Rat 64.0 9.83 9.90 apered I oked	io by Cy 68.0 9.48 9.54 ightweig Using Using 68.0	/l Head 72.0 9.15 9.21 ht pin; D g a 35 Ring Pin S Pin S Pin N Pin N	CC 76.0 8.84 8.90 DUROSH 50 Cra 50 Cra 95 50 Cra 95 50 50 Cra 95 50 Cra 95 50 Cra 95 50 50 Cra 95 50 50 Cra 95 50 Cra 95 50 50 50 50 50 50 50 50 50 50 50 50 50	Piston Weight (grams) 475 486 IIELD® ski IIELD® ski IIELS® ski IIE	Dome Volume (cc) -16.2 -16.2 -16.2 irt coated I 25 Bo 27 59 Dome Volume (cc)	SPE Moly Rings piston ore x 3.480	ED-PRO Ring Set Plasma-Moly Direct Fit Rings O Stroke) Contection ED-PRO Ring Set Plasma-Moly Direct Fit Rings	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes Tes Fitted Pin	Lock Ring Included Included
CID 409 412 400 400	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .06 Con Rod Length (Compression Dist Deck Clearance (Skirt Clearance (Piston Set Part # L-2352F 30 L-2352F 40	Co 58.0 10.43 10.50 : Lightw 33 dish; 4 (in): 5.70 tance (in in): .030 n): .030 58.0	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555) 5 mpress 60.5 	ion Rat 64.0 9.83 9.90 apered I oked oked	io by Cy 68.0 9.48 9.54 ightweig Using Using 68.0 8.93 8.97	/l Head 72.0 9.15 9.21 ht pin; D g a 35 7 g a 35 Pin S Pin S Pin N Pin N /l Head 72.0 8.62 8.65	CC 76.0 8.84 8.90 DUROSH 50 Cra 50 Cra (s: 5/64, Style: Pr Diameter Weight (g CC 76.0 8.33 8.36	Piston Weight (grams) 475 486 IIELD® ski IIELD® ski IIELD® ski ress r (in): 0.92 grams): 1 Piston Weight (grams) 620 624	Dome Volume (cc) -16.2 -16.2 irt coated 25 Bo 27 59 Dome Volume (cc) -14.0 -14.0	SPE Moly Rings piston pre x 3.480 Moly Rings E-243K 30 E-243K 40	ED-PRO Ring Set Plasma-Moly Direct Fit Rings 	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65	Fitted Pin Yes Yes Fitted Pin Yes Yes	Lock Ring Included Included
CID 409 412 400 CID 378 379	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .08 Con Rod Length (Compression Dist Deck Clearance (Skirt Clearance (Skirt Clearance (Piston Set Part # L-2352F 30 L-2352F 40 Singe Piston Part #	Co 58.0 10.43 10.50 : Lightw 33 dish; 4 (in): 5.7(tance (in in): .030(n): .001) in): .0011 Co 58.0	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555 5 5 60.5 	ion Rat 64.0 9.83 9.90 apered I oked	io by Cy 68.0 9.48 9.54 ightweig Using Using 68.0 8.93 8.97	/l Head 72.0 9.15 9.21 ht pin; D g a 35 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9	CC 76.0 8.84 8.90 DUROSH 50 Cra 95 5/64, Style: Pr Diameter Weight (g CC 76.0 8.33 8.36	Piston Weight (grams) 475 486 IIELD® ski IIELD® ski IIK (4.1 5/64, 3/10 ress r (in): 0.92 grams): 1 Piston Weight (grams) 620 624	Dome Volume (cc) -16.2 -16.2 irt coated 25 Bo 27 59 Dome Volume (cc) -14.0 -14.0	SPE Moly Rings piston ore x 3.48(ore x 3.48())))))))))))))))))))))))))))))))))))	ED-PRO Ring Set Plasma-Moly Direct Fit Rings O Stroke) O Stroke ED-PRO Ring Set Plasma-Moly Direct Fit Rings R-10374 30	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65 Plasma-Moly File Fit Rings R-5879 35 	Fitted Pin Yes Yes Fitted Pin Yes Yes	Lock Ring Included Included
CID 409 412 400 CID 378 379 378 379	Piston Set Part # LW-2629F 40 LW-2629F 60 Application Notes D Based Eng Dome Shape: .08 Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (i Piston Set Part # L-2352F 30 L-2352F 40 Singe Piston Part #	Co 58.0 10.43 10.50 : Lightw 33 dish; 4 (in): 5.7(tance (in in): .030(n): .001) in): .0011 Co 58.0	mpress 60.5 eight; Ta Destr 4 reliefs 00): 1.555 5 mpress 60.5 	ion Rat 64.0 9.83 9.90 apered I oked oked 64.0 9.27 9.31	io by Cy 68.0 9.48 9.54 ightweig Using 0.54 io by Cy 68.0 8.93 8.97 8.93 8.97	/l Head 72.0 9.15 9.21 ht pin; D g a 35 Ring Pin S Pin I Pin V /l Head 72.0 8.62 8.65 8.62 8.65	CC 76.0 8.84 8.90 DUROSH 50 Cra 50 Cra (s: 5/64, Style: Pr Diameter Weight (g CC 76.0 8.33 8.36 8.33 8.36	Piston Weight (grams) 475 486 IIELD [®] ski IIELD [®] ski rink (4.1 5/64, 3/10 ress r (in): 0.92 grams): 1 Piston Weight (grams) 620 624 620 624	Dome Volume (cc) -16.2 -16.2 irt coated 25 Bo 27 59 Dome Volume (cc) -14.0 -14.0 -14.0 -14.0	SPE Moly Rings piston re x 3.480 re x 3.480 SPE Moly Rings E-243K 30 E-243K 40 The ring se numbers al	ED-PRO Ring Set Plasma-Moly Direct Fit Rings O Stroke) O Stroke ED-PRO Ring Set Plasma-Moly Direct Fit Rings R-10374 30 	Part # Plasma-Moly File Fit Rings R-10604 45 R-10604 65 Plasma-Moly File Fit Rings R-5879 35 	Fitted Pin Yes Yes Fitted Pin Yes Yes Yes	Lock Ring Included Included

Application Notes: DUROSHIELD® skirt coated piston

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog. The sealed Power standard replacement parts catalog.

(L) Low Tension Plasma-Moly File Fit Rings.

PERFORMANCE ENGINE BEARINGS



RO

Chevr	olet Small Block - c	ont'd.				
ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES	
283; 327 8	Engines					
Rod Set	O.E. Replacement Competition Series Competition Series Competition Series Competition Series Competition Series	8-2020CP 8-7065CH 8-7065CHA 8-7195CH C8-7065CH C8-7065CHA	Overplated Copper-Lead Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy	Dowel hole Honda dimensions Coated Coated; Dowel hole	Std-10-20-30-40 Std-1-1X-10 Std-1-1X-10 Std-1-1X-10 Std-1-10 Std Only	
Main Set	O.E. Replacement	994M	Overplated Copper-Lead Alloy		Std-1-10-20-30-40	
Cam Set	O.E. Replacement; 1963 & Earlier O.E. Replacement; 1964 & Later Competition Series	1145M 1235M 2100M	Babbitt Babbitt H/D Babbitt	Full round design Full round design Full round design	Std Only Std-1-10 Std Only	
302; 305;	307; 350 Engines					
Rod Set	O.E. Replacement Competition Series Competition Series Competition Series Competition Series Competition Series Competition Series Competition Series Competition Series	8-2555CP 8-7095CH 8-7100CH 8-7100CHA 8-7190CH 8-7195CH C8-7100CH C8-7100CHA C8-7100CHA C8-7195CH	Overplated Copper-Lead Alloy Super Duty Alloy	Chamfer Chamfer; Dowel hole Quad 4 NASCAR Honda dimensions Chamfer; Coated Chamfer; Dowel hole; Coated Honda dimensions; Coated	Std-1-10-20-30-40-50 Std-1-10-20-30 Std-1-1X-9-10-11-19-20-21-30 Std-1-1X-10 Std-1-1X-10 Std-1-1X-10 Std-1-1X-10-20-30 Std-10 Std-1	
Main Set	O.E. Replacement Competition Series Competition Series	4663M 139M C139M	Overplated Copper-Lead Alloy Super Duty Alloy Super Duty Alloy	3/4 Groove 3/4 Groove; Coated	Std-1-2-10-20-30-40-60 Std-1-1X-9-10-11-20-21-30 Std-1-1X-10-20-30	
Cam Set	O.E. Replacement Competition Series Competition Series; Bowtie Blocks	1235M 2100M 2106M	Babbitt H/D Babbitt H/D Babbitt	Full round design Full round design Full round design	Std-1-10 Std Only Std Only	
Pin Bushing		1834V20NH	Bronze	For floating pin conversion; No oil hole		
400 Engir	ies					
Rod Set	O.E. Replacement Competition Series Competition Series Competition Series Competition Series Competition Series	8-2555CP 8-7095CH 8-7100CH 8-7100CHA C8-7100CH C8-7100CHA	Overplated Copper-Lead Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy	Chamfer Chamfer; Dowel hole Chamfer; Coated Chamfer; Dowel hole; Coated	Std-1-10-20-30-40-50 Std-1-10-20-30 Std-1-1X-9-10-11-19-20-21-30 Std-1-1X-10 Std-1-1X-10-20-30 Std-10	
Main Set	O.E. Replacement 49 Competition Series 14 Competition Series C1		A-Series aluminum bearings Super Duty Alloy Super Duty Alloy	3/4 Groove 3/4 Groove; Coated	Std-1-10-20-30 Std-1-1X-9-10-11-19-20 Std-1-1X-10-20	
Cam Set	O.E. Replacement Competition Series	1235M 2100M	Babbitt H/D Babbitt	Full round design Full round design	Std-1-10 Std Only	

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES					
283; 302;	283; 302; 305; 327; 350; 400 Engines							
Oil Pump	O.E. Replacement High Volume High Volume High Pressure	224-4146 224-43469V 224-4143 224-4146A	'93 & later; 3/4" inlet; Exc. Corvette; Street Performance Requires 224-6146E shaft Z-28 style pump					


OIL PUMPS AND ACCESSORIES

Chevrolet Small Block - cont'd.

PRODUCT	FEATURES	P/N	NOTES									
283; 302;	283; 302; 305; 327; 350; 400 Engines - cont'd.											
Oil Pump Scr	een											
	O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement	224-1146 224-1246 224-14258 224-14227	'62-64; '67 Chevelle '65 & Up; Exc. Corvette; '67 Chevelle '93 & later; Exc. Corvette Corvette									
Pump Shaft												
	O.E. Replacement Heavy Duty Pump Shaft Shaft Guide	224-6146 224-6146E 224-43343	Use w/Nylon shaft guide w/Integral steel guide; For 224-4143 pump Nylon									



PERFORMANCE CAMS

283, 302, 3	305, 327, 350	, 400 Engines								
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1103R	KC-1103R	Pro-1500	Stock	1000-3500	194/204	268/278	.398	.420	112	41
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-700 VK-115R TES: CARB E.	Std.) HT-817R 0R O. No. D-292-1	(Race)					
CS-1150R		Pro-1500	Stock	1000-3500	194/204	268/278	.398	.420	104	57
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-739R VSR-700 VK-115R	(Std.) HT-817R 0R	(Race)					
CS-1107R CS-1014R	KC-1014R	Pro-1500 Pro-2000	Smooth Smooth	1200-3800 1500-4000	194/214 204/214	268/288 278/288	.398 .420	.443 .443	112 112	46 51
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-700 VK-115R TES: CARB E.	(Std.) HT-817R 0R O. No. D-292-1	(Race)					
CS-1151R		Pro-2000	Good	1500-4000	204/214	278/288	.420	.443	110	55
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-739R VSR-700 VK-115R	(Std.) HT-817R 0R	(Race)					
CS-1104R CS-1105R	KC-1104R KC-1105R	Pro-2000 Pro-2000	Smooth Smooth	1500-4000 1800-4400	209/209 209/216	273/273 283/286	.414 .435	.414 .455	110 112	45 51
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-700 VK-115R TES: CARB E.	Std.) HT-817R 0R O. No. D-292-1	(Race)					
CS-1013R	KC-1013R	Pro-3000	Good	2000-4500	214/224	288/298	.442	.465	112	69
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817 (VS-739R VSR-700 VK-115R	(Std.) HT-817R 0R	(Race)					

PERFORMANCE CAMS

60



Chevrolet Small Block - cont'd.

283, 302, 3	05, 327, 350,	400 Engines	- cont'd.							
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1106R	KC-1106R	Pro-3000	Good	2000-4500	214/224	288/298	.443	.465	112	61
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-700 VK-115R TES: CARB E.	Std.) HT-817R DR D. No. D-292-1	(Race)					
CS-1169R CS-184R		Pro-3000 Pro-3000	Good Good	2000-4500 2000-4500	218/218 218/218	292/292 295/295	.458 .429	.458 .429	110 110	64 75
Hydraulic	LIFTERS HT-817 (Std.) HT-817R (Race) VALVE SPRING VS-739R RETAINER VSR-7000R LOCKS VK-115R KC-179R Pro-3000 Good 2200-5200 222/222 290/290 .44 LIFTERS HT-817 (Std.) HT-817R (Race) VALVE SPRING VS-739R BETAINIER VSR-7000R									
CS-179R	KC-179R	Pro-3000	Good	2200-5200	222/222	290/290	.447	.447	114	78
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-7000 VK-115R TES: 327-350H	Std.) HT-817R DR IP; GM Part No. 386	(Race) 3151					
CS-1095R	KC-1095R	Pro-3000	Good	2200-5500	224/224	291/287	.450	.460	114	60
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-817 (VS-739R VSR-700 VK-115R TES: 350-350H	Std.) HT-817R DR IP LT-1; L82	(Race)					
CS-1138R CS-1062R CS-1171R CS-112R CS-185R CS-1178R	KC-1138R KC-1062R KC-112R KC-185R KC-1178R	Pro-3000 Pro-3000 Pro-3000 Pro-3000 Pro-5000 Pro-5000	Good Fair Fair Rough Fair Rough	2200-5500 2200-5700 2500-6000 2800-6000 2200-5700 2500-6000	224/224 220/231 224/234 224/224 230/230 232/232	298/298 304/287 300/300 300/300 304/304 303/303	.465 .468 .465 .436 .453 .461	.465 .480 .488 .436 .453 .461	112 110 112 108 114 114	66 80 71 84 55 74
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817 (VS-739R VSR-700 VK-115R	Std.) HT-817R DR	(Race)			1		1
CS-1168R	KC-1168R	Pro-5000	Rough	2500-6000	232/234	300/308	.488	.488	108	80
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-1590 VSR-701 VK-315R	Std.) HT-817R 7R	(Race)					
CS-186R	KC-186R	Pro-5000	Rough	3000-6000	230/230	287/287	.480	.480	109	74
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-739R VSR-7000 VK-115R	Std.) HT-817R DR	(Race)					
CS-187R CS-1146R	KC-187R KC-1146R	Pro-5000 Pro-5000	Rough Rough	3000-6500 3000-6500	244/244 244/254	318/318 318/328	.510 .510	.510 .533	108 112	94 91
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-1590 VSR-701 VK-315R	Std.) HT-817R 7R	(Race)					



Chevrolet Small Block - cont'd.

Marine 283	8, 305, 350, 4	00 Engines								
	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1043M		Marine	Good		202/213	269/284	.400	.410	110	58
Hydraulic		LIFTERS APPLICATION NO	HT-817 (TES: GM Nos. 260/270 F	(Std.) HT-817R (340284; 6262944; St H.P. 350	Race) d. rotation; 19	98/200; 228/23	30 H.P. 30)5; 225 H.	P. 327; 2	50/255,
283, 302, 3	05, 327, 350,	400 Engines	1	1	1			1	1	
CS-1079R CS-1080R	KC-1079R KC-1080R	Pro-2000 Pro-3000	Smooth Good	1200-4500 1500-5000	198/210 210/215	273/288 288/284	.433 .462	.462 .470	112 110	57 68
Hydraulic Roller		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-2148 VS-739R VSR-700 VK-115R TES: 1987-95	(Std.) 0R Engs.						
CS-1152R		Pro-3000	Fair	2000-5500	222/232	297/307	.479	.501	114	67
Hydraulic Roller	gear									
CS-1081R	KC-1081R	Pro-4000	Fair	2500-6000	230/230	306/306	.480	.480	108	90
Hydraulic Roller		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-2148 VS-739R VSR-700 VK-115R TES: 1987-95	(Std.) 0R Engs.						
CS-113R		Pro-4000	Fair	2800-5800	228/230	270/270	.395	.401	110	66
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	AT-992 (VS-739R VSR-700 VK-115R TES: 283 w/Fu	Std.) 0R el injection; GM Part l	No. 3736097	"Duntov"				
CS-1226R	KC-1226R	Pro-5000	Rough	3000-6000	244/254	289/299	.495	.518	106	91
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS	AT-992(VS-1590 VSR-701 VK-315R	(Std.) 7 R						
CS-1145R	KC-1145R	Pro-5000	Rough	3000-6500	242/254	295/310	.459	.485	116	90
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	AT-992 (VS-1590 VSR-701 VK-315R TES: 350-370 I	(Std.) 7R HP LT-1; GM Part No	. 3972178					
CS-118R	KC-118R	Pro-5000	Rough	3400-6800	254/254	295/295	.485	.485	114	86
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	AT-992 (VS-1590 VSR-701 VK-315R TES: 327-365 I	(Std.) 7R HP; GM Part No. 384:	9346					

PERFORMANCE CAMS



SPEED PRO

Chevrolet Small Block - cont'd.

283, 302, 3	05, 327, 350,	400 Engines -	cont'd.							
	CAM &	CAM IDLE		POWER	DUR	TION	VALVE LIFT		LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1227R CS-189R	KC-1227R KC-189R	Pro-5000 Pro-5000	Rough Rough	3700-6700 4500-8000	254/264 274/274	316/326 312/312	.518 .557	.540 .557	106 110	109 92
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS	AT-992(VS-1590 VSR-7017 VK-315R	Std.) 7 R						
CS-1127R		Pro-5000	Rough	3500-6700	256/258	292/296	.630	.630	106	
Mechanical Roller		LIFTERS RETAINER LOCKS APPLICATION NOT	AT-6027RA (Race) VSR-7020 VK-274 I NOTES: Steel; Requires bronze distributor gear							

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES				
O.E. F	Replacemer	nt Valve									
283, 30	2, 305, 327, 3	50, 400 Engir	nes								
Exh	aust										
	1.500	V-1199	.3415	4.928	45	21-4N	1967-70; Exc. Hi-Perf.				
	1.500	V-1904	.3414	4.928	45	21-4N	1971-91; Exc. Hi-Perf., Corvette, Police				
	1.600	V-1/55 V-4231	.3415 3407	4.903	45 45	21-4N 21-4N	1967-76; HI-Peff. 1967-76: Hi-Perf				
Inta	ke	1-4201	.0407	4.000	-10	21.414	1007 70, 111 01.				
	1.720	V-1927	.3413	4.917	45	SIL-1					
	1.839	V-2143	.3410	4.912	45	SIL-1					
	1.940	V-1612	.3410	4.880	45	SIL-1	1967-70; Exc. Hi-Perf.				
	2.020	V-1756	.3415	4.880	45	SIL-1	1967-76; Hi-Perf.				
POW	ERFORGED	Stainless	Steel Va	alve							
Exh	aust										
	1.500	V-8000R	.3415	4.915	45	21-2N					
	1.600	V-8001R	.3415	4.915	45	21-4N					
Into	1.600	V-8001R 100	.3415	5.016	45	21-4N					
IIIa	1 037	V-8002B	3/15	4 015	15	21_4N					
	2.020	V-8003R	.3415	4.915	45	21-4N					
	2.020	V-8003R 100	.3415	5.015	45	21-2N					
	2.055	V-8004R	.3415	4.915	45	21-2N					
	2.055	V-8004R 100	.3415	5.015	45	21-2N					
POWI	ERFORGED	Competit	ion Serie	es Stainless Stee	el Valve						
Exh	aust										
	1.600	V-2051R	.3415	4.905	45	21-2N					
Inta	ke										
	1.940	V-2057R	.3414	4.897	45	422					
	2.020	V-2054R	.3415	4.897	45 45	422 SIL_1					
	2.000	V-220511		4.300	40						
POWI	POWERFORGED Competition Series Stainless Steel Valve - With High Flow Undercut Stem										
Exh	aust										
	1.500	V-2477R	.3415	4.911	45	21-2N					
	1.600	v-2480R V-2478R	.3415 .3415	5.012 4.912	45 45	21-2N 21-2N					



Ch	evrolet S	Small B	lock - d	ont'd.				
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	AN	GLE	MATERIAL	NOTES
POW	ERFORGED) Competi	ition Seri	es Stair	nless Steel \	/alve	- With H	High Flow Undercut Stem
283, 3	02, 305, 327, 3	50, 400 Eng	ines					
Inta	ke							
	1.940 2.020 2.050 2.080	V-2473R V-2474R V-2475R V-2476R	.3410 .3410 .3413 .3413	4.898 4.898 4.942 4.956	45 45 45 45		422 422 422 422	
Valve	e Guide - Ma	anganese	Bronze					
		VG-7501R VG-7002R	.3415 .3435	2.600 2.375				Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal Straight; Cut-to-length; .502 O.D.
Valve	Stem Seal							
		ST-2001	.3410					Rubber/PTFE insert; .562 guide dia.; Installation requires valve guide machining
		ST-2003	.3410					Rubber/PTFE insert; .531 guide dia.; Installation requires valve guide machining
		ST-2005 ST-2018R	.3080 .3410					Rubber/PTFE; .500 guide dia. PTFE; .531 guide dia.; Installation requires valve guide machining
		ST-2022R	.3120					PTFE; .500 guide dia.; Installation requires valve guide machining



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
283; 302; 3	305; 327; 350; 400	Engines		
Guide Plates				
	MR-1891 MR-1892	Stepped Stepped	For 5/16 Push Rods For 3/8 Push Rods	S
	MR-1896 MR-1930	Flat Flat	For 5/16 Push Rods For 3/8 Push Rods	S
Push Rods				
	RP-3264R RP-3212R RP-3212R 100 RP-3212R 150 RP-3212R 200	Hardened Chrome Moly Hardened Chrome Moly Hardened Chrome Moly Hardened Chrome Moly Hardened Chrome Moly	5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia.	For "retro-fit" hydraulic roller cam installations Stock length +.100 in length +.150 in length +.200 in length
	RP-7001R RP-7001R 100 RP-7001R 150 RP-7001R 200 RP-7500R 100 RP-7500R 150 RP-7500R 200	Hardened Chrome Moly; One Piece Hardened Chrome Moly; One Piece	5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia. 5/16 dia.	Stock length .060 wall; +.100 in length .060 wall; +.150 in length .060 wall; +.200 in length .080 wall; +.150 in length .080 wall; +.200 in length
Push Rod Set				
	RP-5000RK RP-5000RK 100	Hardened; Black Oxide Coated Hardened; Black Oxide Coated	5/16 dia. 5/16 dia.	Flat tappet cams; Std. length Flat tappet cams; +.100 in length
Rocker Arms				
	R-1022R R-1023R R-865R R-952R	Stamped Long Slot Stamped Long Slot Stamped Long Slot Stamped Long Slot	1.5 Ratio 1.6 Ratio 1.5 Ratio 1.6 Ratio	1987 & newer Engs. w/Center bolt valve covers 1987 & newer Engs. w/Center bolt valve covers 1986 & earlier Engs. 1986 & earlier Engs.
	R-1024R R-1025R	Stamped Steel Roller Stamped Steel Roller	1.5 Ratio 1.6 Ratio	1986 & earlier Engs. 1986 & earlier Engs.
	RR-7000R RR-7001R RR-7002R RR-7003R	Aluminum Roller Aluminum Roller Aluminum Roller Aluminum Roller	1.5 Ratio 1.5 Ratio 1.6 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in studs Requires 7/16 H/D screw-in studs Requires 3/8 H/D screw-in studs Requires 7/16 H/D screw-in stud
	RR-7020R RR-7022R RR-7023R	Stainless Steel Roller Stainless Steel Roller Stainless Steel Roller	1.5 Ratio 1.5 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in studs Requires 7/16 H/D screw-in stud Requires 7/16 H/D screw-in stud
Rocker Arm P	Pivot Ball MR-1822	4 Groove		Anti-gall

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Chevrolet Small Block - cont'd.

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
283; 30	02; 305; 327; 350;	400 Engines - cont'd.		
Rocker A	Adjustment Locks			
	MR-1858PL MR-1860PL	3/8 Stud Diameter 3/8 Stud Diameter		For roller rockers For stock style ball pivot rockers
	MR-1859PL MR-1861PL	7/16 Stud Diameter 7/16 Stud Diameter		For roller rockers For stock style ball pivot rockers
Rocker S	Studs			
	MR-1752	.003 Oversize Press-In		For stock rockers
	MR-1863RS MR-1865RS	3/8 H/D Screw-In 3/8 H/D Screw-In		For stock style ball pivot or roller rockers; Polylocks For stock style ball pivot rockers
	MR-1867RS	7/16 H/D Screw-In		For roller rockers; .750 head end depth
	MR-1868RS	7/16 - 14 mounting threads; 7/16 - 20 stud	threads	Special universal rocker arm stud
	MR-1910RS	7/16 H/D Screw-In		For roller rockers; .725 head end depth
Complete	e Timing Sets			
	CTS-1100NR CTS-1100R	Performance Roller; .250" Double Roller Performance Roller; .250" Double Roller	3 Keyway 3 Keyway	Exc. Factory roller cam Exc. Factory roller cam; When depleted use CTS- 1100NR
	CTS-1145R	Performance Roller; .250" Double Roller	3 Keyway	Factory roller cam
	CTS-3500TX9R CTS-3545X9R	Billet Roller; .250" Double Roller Billet Roller; .250" Double Roller	9 Keyway 9 Keyway	Incl. roller thrust brg.; Exc. Factory roller cam Factory roller cam
	CTS-3600TX9R CTS-3645X9R	Competition Roller; Premium .250" Double Roll Competition Roller; Premium .250" Double Roll	er 9 Keyway er 9 Keyway	Incl. roller thrust brg.; Exc. Factory roller cam Factory roller cam

PERFORMANCE PISTONS



64

SPEED-PRO Hypereutectic Piston Sets with Rings **454 Engines** PART NUMBER PISTON TYPE COMPONENT COMPONENT QTY AVAILABLE SIZES 8KH625CP 30 Hypereutectic H625CP 8 30-40-60 E-233K COMPRESSION RATIO: 8.5:1 w/107cc heads DOME DESIGN: Flat; 2 reliefs FEATURES: DUROSHIELD® skirt coated piston PART NUMBER PISTON TYPE COMPONENT COMPONENT QTY AVAILABLE SIZES H426CP E-233K 8KH426CP 30 30-40-60 Hypereutectic 8 COMPRESSION RATIO: 9.37:1 w/107cc heads DOME DESIGN: .100 dome; 1 relief DUROSHIELD® skirt coated piston FEATURES: SPEED-PRO POWERFORGED Piston Sets with Rings **396 Engines** PART NUMBER PISTON TYPE COMPONENT COMPONENT QTY AVAILABLE SIZES L-2240NF E-243K 8KL2240NF 30 POWERFORGED 30-60 8 1 COMPRESSION RATIO: 9.09:1 w/107cc heads DOME DESIGN: .182 dome DUROSHIELD® skirt coated piston FEATURES:





SPEED-PRO POW	ERFORGED Piston Set	s with Rings		
454 Engines				
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KL2399NF 30	POWERFORGED	L-2399NF E-233K	8 1	30-60
	COMPRESSION RATIO: 9 DOME DESIGN: . FEATURES: [9.7:1 w/107cc heads 095 dome DUROSHIELD® skirt coated pist	on	
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KL2465F 30	POWERFORGED	L-2465F E-233K	8 1	30-60
	COMPRESSION RATIO: 1 DOME DESIGN: . FEATURES: [10.68:1 w/107cc heads 226 dome DUROSHIELD® skirt coated pist	on. 60 oversize has .215 do	ome
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KL2377F 30	POWERFORGED	L-2377F E-233K	8 1	30-40-60
	COMPRESSION RATIO: 8 DOME DESIGN: F FEATURES: [3.36:1 w/107cc heads Flat; 2 reliefs DUROSHIELD® skirt coated pist		



PERFORMANCE PISTONS

SPEED-PRO Hypereutectic Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Piston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Finad	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454	H625CP	8.77	8.40	8.26	7.86	7.75	7.52	641	-2.0	E-233K	R-9905	R-9590 5	Yes	Included
458	H625CP 20	8.84	8.47	8.32	7.92	7.81	7.57	651	-2.0	E-233K 20			Yes	Included
461	H625CP 30	8.88	8.50	8.36	7.95	7.84	7.60	656	-2.0	E-233K 30	R-9905 30	R-9590 35	Yes	Included
463	H625CP 40	8.91	8.54	8.39	7.98	7.87	7.63	661	-2.0	E-233K 40			Yes	Included
467	H625CP 60	8.98	8.60	8.46	8.04	7.94	7.69	671	-2.0	E-233K 60	R-9905 60	R-9590 65	Yes	Included
476	H625CP 100	9.13	8.74	8.59	8.17	8.06	7.81	691	-2.0	E-424K 30		R-9224 35	Yes	Included
	Singe Piston Part #													
454	WH625CP	8.77	8.40	8.26	7.86	7.75	7.52	641	-2.0				Yes	Included
458	WH625CP 20	8.84	8.47	8.32	7.92	7.81	7.57	651	-2.0				Yes	Included
461	WH625CP 30	8.88	8.50	8.36	7.95	7.84	7.60	656	-2.0	The ring set	ts listed for the "Pis	ton Set" part	Yes	Included
463	WH625CP 40	8.91	8.54	8.39	7.98	7.87	7.63	661	-2.0	numbers als	so service the sinal	e pistons.	Yes	Included
467	WH625CP 60	8.98	8.60	8.46	8.04	7.94	7.69	671	-2.0				Yes	Included
476	WH625CP 100	9.13	8.74	8.59	8.17	8.06	7.81	691	-2.0				Yes	Included
	Application Notes: DUROSHIELD [®] skirt coated piston													

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SPEED-PRO Hypereutectic Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)



Dome Shape: .100 dome; 1 relief Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

	Diston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Elited	Lask
CID	Part #	100.9	9 106.9 109.4 116.9 119.0 124.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring			
454 458 461 463 467 476	H426CP H426CP 20 H426CP 30 H426CP 40 H426CP 60 H426CP 100	9.72 9.80 9.84 9.88 9.96 10.11	9.26 9.33 9.37 9.41 9.48 9.63	9.08 9.15 9.19 9.22 9.30 9.44	8.58 8.65 8.69 8.72 8.79 8.93	8.46 8.52 8.56 8.59 8.66 8.79	8.17 8.23 8.27 8.30 8.36 8.49	659 669 674 679 689 709	10.5 10.5 10.5 10.5 10.5 10.5	E-233K E-233K 20 E-233K 30 E-233K 40 E-233K 60 E-424K 30	R-9905 R-9905 30 R-9905 60 	R-9590 5 R-9590 35 R-9590 65 R-9224 35	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
454 458 461 463 467 476	WH426CP WH426CP 20 WH426CP 30 WH426CP 40 WH426CP 60 WH426CP 100	9.72 9.80 9.84 9.88 9.96 10.11	9.26 9.33 9.37 9.41 9.48 9.63	9.08 9.15 9.19 9.22 9.30 9.44	8.58 8.65 8.69 8.72 8.79 8.93	8.46 8.52 8.56 8.59 8.66 8.79	8.17 8.23 8.27 8.30 8.36 8.49	659 669 674 679 689 709	10.5 10.5 10.5 10.5 10.5 10.5	The ring se numbers als	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes Yes Yes	Included Included Included Included Included

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: .230 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

	Diston Sat	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 458 461 463 467 476	H693CP H693CP 20 H693CP 30 H693CP 40 H693CP 60 H693CP 100	10.78 10.86 10.91 10.95 11.04 11.21	10.20 10.28 10.32 10.36 10.44 10.61	9.97 10.05 10.09 10.13 10.22 10.38	9.37 9.44 9.48 9.52 9.59 9.75	9.21 9.29 9.32 9.36 9.43 9.58	8.87 8.94 8.97 9.01 9.08 9.22	708 718 723 728 738 758	22.0 22.0 22.0 22.0 20.0 20.0	E-233K E-233K 20 E-233K 30 E-233K 40 E-233K 60 E-424K 30	R-9905 R-9905 30 R-9905 60 	R-9590 5 R-9590 35 R-9590 65 R-9224 35	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
454 458 461 463 467 476	WH693CP WH693CP 20 WH693CP 30 WH693CP 40 WH693CP 60 WH693CP 100	10.78 10.86 10.91 10.95 11.04 11.21	10.20 10.28 10.32 10.36 10.44 10.61	9.97 10.05 10.09 10.13 10.22 10.38	9.37 9.44 9.48 9.52 9.59 9.75	9.21 9.29 9.32 9.36 9.43 9.58	8.87 8.94 8.97 9.01 9.08 9.22	708 718 723 728 738 758	22.0 22.0 22.0 22.0 20.0 20.0	The ring set numbers als	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; 60	and 100	O/S have	e .210 dor	ne				



SPEED-PRO Hypereutectic Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)

Dome Shape: .230 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Piston Sat	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Filmed	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
461 467	H118CP 30 H118CP 60	10.91 11.04	10.32 10.44	10.09 10.22	9.48 9.59	9.32 9.43	8.97 9.08	725 740	22.0 20.0		R-9904 30 R-9904 60	R-9745 35 R-9745 65	Yes Yes	Included Included
	Singe Piston Part #													
461 467	WH118CP 30 WH118CP 60	10.91 11.04	10.32 10.44	10.09 10.22	9.48 9.59	9.32 9.43	8.97 9.08	725 740	22.0 20.0		 WR-9904 60		Yes Yes	Included Included

Application Notes: Lightweight; DUROSHIELD® skirt coated piston; CNC machined; 60 O/S has .210 dome; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: .340 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Diston Sat	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Filter	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 458 461 463 467 476	H581CP H581CP 20 H581CP 30 H581CP 40 H581CP 60 H581CP 100	11.67 12.15 12.20 12.25 11.96 12.54	10.99 11.41 11.46 11.50 11.25 11.78	10.73 11.13 11.17 11.22 10.98 11.49	10.02 10.37 10.41 10.45 10.26 10.70	9.84 10.18 10.22 10.26 10.08 10.51	9.44 9.75 9.79 9.83 9.66 10.06	725 735 740 745 755 775	33.0 33.0 33.0 33.0 30.5 30.5	E-233K E-233K 20 E-233K 30 E-233K 40 E-233K 60 E-424K 30	R-9905 R-9905 30 R-9905 60 	R-9590 5 R-9590 35 R-9590 65 R-9224 35	Yes Yes Yes Yes Yes Yes	Included Included Included Included Included Included
	Singe Piston Part #													
454 458 461 463 467 476	WH581CP WH581CP 20 WH581CP 30 WH581CP 40 WH581CP 60 WH581CP 100	11.67 12.15 12.20 12.25 11.96 12.54	10.99 11.41 11.46 11.50 11.25 11.78	10.73 11.13 11.17 11.22 10.98 11.49	10.02 10.37 10.41 10.45 10.26 10.70	9.84 10.18 10.22 10.26 10.08 10.51	9.44 9.75 9.79 9.83 9.66 10.06	725 735 740 745 755 775	33.0 33.0 33.0 33.0 30.5 30.5	The ring set numbers als	is listed for the "Pisi so service the single	ton Set" part e pistons.	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes:	DURO	SHIELD)® skirt c	oated pi	ston: 60	and 100	O/S have	e .300 dor	me				



SPEED-PRO Hypereutectic Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)



Dome Shape: .340 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
461 467	H110CP 30 H110CP 60	12.13 11.89	11.40 11.20	11.12 10.93	10.37 10.22	10.17 10.03	9.75 9.63	691 703	33.0 30.5		R-9904 30 R-9904 60	R-9745 35 R-9745 65	Yes Yes	Included Included
	Singe Piston Part #													
461 467	WH110CP 30 WH110CP 60	12.13 11.89	11.40 11.20	11.12 10.93	10.37 10.22	10.17 10.03	9.75 9.63	691 703	33.0 30.5		 WR-9904 60		Yes Yes	Included Included
	Application Notes	Lightw	eight; D	UROSH	IELD® s	kirt coate	ed pistor	n; CNC ma	achined; 6	0 O/S has .30	0 dome; The ring	sets listed for the	"Piston S	et" part

numbers also service the single pistons.

454 Based Engines 4.250" Stroker Combinations (4.250" Bore)



Dome Shape: .100 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.525 Deck Clearance (in): .015 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

	Piston Sat	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Either d	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
489 496 506	H552CP 30 H552CP 60 H552CP 100	10.62 10.75 10.93	10.10 10.22 10.39	9.90 10.02 10.18	9.34 9.45 9.61	9.20 9.31 9.46	8.88 8.98 9.13	633 651 675	11.2 11.2 11.2	E-233K 30 E-233K 60 E-424K 30	R-9905 30 R-9905 60 	R-9590 35 R-9590 65 R-9224 35	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
489 496 506	WH552CP 30 WH552CP 60 WH552CP 100	10.62 10.75 10.93	10.10 10.22 10.39	9.90 10.02 10.18	9.34 9.45 9.61	9.20 9.31 9.46	8.88 8.98 9.13	633 651 675	11.2 11.2 11.2	The ring set numbers als	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes	Included Included Included
	Application Notes:	DURO	SHIELD	® skirt c	oated pi	ston								



SPEED-PRO Hypereutectic Pistons

454 Based Engines 4.250" Stroker Combinations (4.250" Bore)

Dome Shape: .245 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.525 Deck Clearance (in): .015 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	t Part #		
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
496 506	H603CP 60 H603CP 100	11.82 12.02	11.17 11.36	10.92 11.10	10.25 10.41	10.07 10.24	9.69 9.84	677 701	21.0 21.0	E-233K 60 E-424K 30	R-9905 60 	R-9590 65 R-9224 35	Yes Yes	Included Included
	Singe Piston Part #													
496 506	WH603CP 60 WH603CP 100	11.82 12.02	11.17 11.36	10.92 11.10	10.25 10.41	10.07 10.24	9.69 9.84	677 701	21.0 21.0	The ring set numbers als	s listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes	Included Included
	Application Notes:	DURO	SHIELD	® skirt c	oated pi	ston								

502 Based Engines (4.466 Bore x 4.000 Stroke)

Dome Shape: .100 dome; 1 relief Con Rod Length (in): 6.135 Compression Distance (in): 1.645 Deck Clearance (in): .020 Skirt Clearance (in): .0015 Rings: 2.0MM, 1.5MM, 4.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lash
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
502	H144CP	10.31	9.83	9.64	9.13	8.99	8.70	709	6.2	E-648K		R-10575 5	Yes	Included
509	H144CP 30	CP 10.31 9.83 9.64 9.13 8 CP 30 10.43 9.94 9.75 9.23 9 CP 60 10.55 10.05 9.86 9.34 9					8.79	773	6.2				Yes	Included
511	H144CP 60	CP 30 10.43 9.94 9.75 9.23 9.1 CP 60 10.55 10.05 9.86 9.34 9.2			9.20	8.90	788	6.2				Yes	Included	
	Singe Piston Part #													
509	WH144CP 30	10.43	9.94	9.75	9.23	9.10	8.79	773	6.2	The ring set numbers als	ts listed for the "Pisi so service the single	ton Set" part e pistons.	Yes	Included
	Application Notes:	DURO	SHIELD	® skirt c	oated pi	ston								

PERFORMANCE PISTONS



Chevrolet Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

396 Based Engines (4.094 Bore x 3.766 Stroke)



Dome Shape: .182 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.760 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Dicton Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Elite al	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
396	L-2240NF	7.95	7.61	7.48	7.11	7.02		703	21.0	E-232K			Yes	N/R
402	L-2240NF 30	8.05	7.70	7.57	7.20	7.10		718	21.0	E-232K 30		R-9210 35 (L)	Yes	N/R
404	L-2240NF 40	8.08	7.73	7.60	7.23	7.13		723	21.0	E-232K 40		``	Yes	N/R
408	L-2240NF 60	8.15	7.80	7.66	7.29	7.19		733	21.0	E-232K 60		R-9210 65 (L)	Yes	N/R
	Singe Piston Part #													
396	WL-2240NF	7.95	7.61	7.48	7.11	7.02		703	21.0				Yes	N/R
402	WL-2240NF 30	8.05	7.70	7.57	7.20	7.10		718	21.0	The ring set	s listed for the "Pis	ton Set" part	Yes	N/R
404	WL-2240NF 40	8.08	7.73	7.60	7.23	7.13		723	21.0	numbers als	o service the sinal	e pistons.	Yes	N/R
408	WL-2240NF 60	8.15	7.80	7.66	7.29	7.19		733	21.0				Yes	N/R
	Application Notor	w/Dict	on domo	romovo			D® alkirt	agated pig	oton					

Application Notes: w/Piston dome removed; DUROSHIELD[®] skirt coated piston



Dome Shape: .182 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.760 Deck Clearance (in): .025 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Picton Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEI	ED-PRO Ring Set	t Part #	Elite d	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
396	L-2240NF	9.48	8.98	8.78	8.26	8.13	7.83	703	21.0	E-232K			Yes	N/R
402	L-2240NF 30	9.09	8.89	8.36	8.23	7.92	718	21.0	E-232K 30		R-9210 35 (L)	Yes	N/R	
404	L-2240NF 40	•2240NF 30 9.59 9.09 8.89 8.36 8 •2240NF 40 9.63 9.12 8.93 8.40 8 •2240NF 60 9.71 9.20 9.00 8.47 8						723	21.0	E-232K 40			Yes	N/R
408	L-2240NF 60	0 9.59 9.09 8.69 8.30 6.23 0 9.63 9.12 8.93 8.40 8.26 0 9.71 9.20 9.00 8.47 8.33					8.02	733	21.0	E-232K 60		R-9210 65 (L)	Yes	N/R
	Singe Piston Part #													
396	WL-2240NF	9.48	8.98	8.78	8.26	8.13	7.83	703	21.0				Yes	N/R
402	WL-2240NF 30	9.59	9.09	8.89	8.36	8.23	7.92	718	21.0	The ring set	s listed for the "Pis	ton Set" part	Yes	N/R
404	WL-2240NF 40	9.63	9.12	8.93	8.40	8.26	7.96	723	21.0	numbers als	so service the singl	e pistons.	Yes	N/R
408	WL-2240NF 60	9.71	9.20	9.00	8.47	8.33	8.02	733	21.0		0	•	Yes	N/R
	Application Notes	1965-6	69 325/3	50HP; C	closed cl	namber	heads; [UROSHI	ELD [®] skir	t coated piston				

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).

70 (L) Low Tension Plasma-Moly File Fit Rings.



SPEED-PRO POWERFORGED Pistons

396 Based Engines (4.094 Bore x 3.766 Stroke)

Dome Shape: .335 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.765 Deck Clearance (in): .020 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154



	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
402 404 408	L-2242NF 30 L-2242NF 40 L-2242NF 60		 	10.58 10.58 10.58	 			668 672 681	38.3 37.9 37.1	E-232K 30 E-232K 40 E-232K 60	 	R-9210 35 (L) R-9210 65 (L)	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
402 404 408	WL-2242NF 30 WL-2242NF 40 WL-2242NF 60	 	 	10.58 10.58 10.58	 		 	668 672 681	38.3 37.9 37.1	The ring set numbers als	is listed for the "Pisi so service the single	ton Set" part e pistons.	Yes Yes Yes	N/R N/R N/R
	Application Notes	1965-6	9 375H	P. Close	d chamł	her head	ls: 40 O/	S has 33	0 dome: F	50 O/S has 31	9 dome [.] DUROSH	IIFI D® skirt coate	ed niston	

402 Based Engines (4.125 Bore x 3.766 Stroke)

Dome Shape: .110 dome; 1 relief Con Rod Length (in): 6.135 Compression Distance (in): 1.770 Deck Clearance (in): .015 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154



	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
408 410 414	L-2383F 30 L-2383F 40 L-2383F 60	8.29 8.32 8.34	7.93 7.96 7.98	7.78 7.82 7.86	7.40 7.43 7.45	7.29 7.32 7.34	 	715 720 730	13.9 13.9 13.9	E-243K 30 E-243K 40 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
408 410 414	WL-2383F 30 WL-2383F 40 WL-2383F 60	8.29 8.32 8.34	7.93 7.96 7.98	7.78 7.82 7.86	7.40 7.43 7.45	7.29 7.32 7.34	 	715 720 730	13.9 13.9 13.9	The ring se numbers al	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes	N/R N/R N/R
	Application Notes:	w/Piste	on dome	remove	d; DUR	OSHIEL	D® skirt	coated pis	ston					



SPEED-PRO POWERFORGED Pistons

402 Based Engines (4.125 Bore x 3.766 Stroke)



Dome Shape: .110 dome; 1 relief Con Rod Length (in): 6.135 Compression Distance (in): 1.770 Deck Clearance (in): .015 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Picton Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Eitherd	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
408 410 414	L-2383F 30 L-2383F 40 L-2383F 60	9.29 8.83 8.65 8.16 8.03 715 9.33 8.86 8.68 8.19 8.06 720 9.35 8.88 8.70 8.21 8.08 730							13.9 13.9 13.9	E-243K 30 E-243K 40 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
408 410 414	WL-2383F 30 WL-2383F 40 WL-2383F 60	9.29 9.33 9.35	8.83 8.86 8.88	8.65 8.68 8.70	8.16 8.19 8.21	8.03 8.06 8.08	 	715 720 730	13.9 13.9 13.9	The ring set numbers al:	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes	N/R N/R N/R
	Application Notes	: 1970-7	72 350H	P; Close	ed chaml	per head	ds; DUR	OSHIELD	skirt coa	ated piston				



Dome Shape: .319 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.765 Deck Clearance (in): .020 Skirt Clearance (in): .0030 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Diston Sat	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	100.9 106.9 109.4 116.9 119.0 12 10.81 10.53 10.95 10.66				124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring	
408 414	L-2328NF 30 L-2328NF 60		10.81 10.95	10.53 10.66				680 697	36.6 36.6	E-243K 30 E-243K 60	R-10374 30 R-10374 60	R-5879 35 R-5879 65	Yes Yes	N/R N/R
	Singe Piston Part #													
408 414	WL-2328NF 30 WL-2328NF 60		10.81 10.95	10.53 10.66				680 697	36.6 36.6	The ring set numbers als	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes	N/R N/R
	Application Notes	: 1969-7	70; Close	ed cham	ber head	ds; DUR	OSHIEL	.D® skirt c	oated pist	ton				



SPEED-PRO POWERFORGED Pistons

427 Based Engines (4.250 Bore x 3.766 Stroke)

Dome Shape: .140 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.767 Deck Clearance (in): .018 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154



	Piston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitted	Laak
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
427 433 435 439	L-2300NF L-2300NF 30 L-2300NF 40 L-2300NF 60	8.57 8.67 8.71 8.78	8.20 8.29 8.33 8.39	8.05 8.15 8.18 8.24	7.65 7.74 7.77 7.83	7.54 7.63 7.66 7.72	7.31 7.39 7.42 7.48	777 794 800 810	16.8 16.8 16.8 16.8	E-233K R-9905 R-9590 § E-233K 30 R-9905 30 R-9590 § E-233K 40 E-233K 60 R-9905 60 R-9590 §			Yes Yes Yes Yes	N/R N/R N/R N/R
	Singe Piston Part #													
427 433 435 439	WL-2300NF WL-2300NF 30 WL-2300NF 40 WL-2300NF 60	8.57 8.67 8.71 8.78	8.20 8.29 8.33 8.39	8.05 8.15 8.18 8.24	7.65 7.74 7.77 7.83	7.54 7.63 7.66 7.72	7.31 7.39 7.42 7.48	777 794 800 810	16.8 16.8 16.8 16.8	The ring set numbers als	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes Yes	N/R N/R N/R N/R

Application Notes: w/Piston dome removed; DUROSHIELD® skirt coated piston

Dome Shape: .140 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.767 Deck Clearance (in): .018 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Se	t Part #	Fitterd	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
427	L-2300NF	9.86	9.35	9.16	8.62	8.48	8.18	777	16.8	E-233K	R-9905	R-9590 5	Yes	N/R
433	L-2300NF 30	9.98	9.46	9.27	8.73	8.59	8.28	794	16.8	E-233K 30	R-9905 30	R-9590 35	Yes	N/R
435	L-2300NF 40	30 9.98 9.46 9.27 8.73 8.5 40 10.02 9.50 9.30 8.76 8.6 10 10 9.58 9.30 8.76 8.6						800	16.8	E-233K 40			Yes	N/R
439	L-2300NF 60	9.98 9.46 9.27 8.73 8.59 10.02 9.50 9.30 8.76 8.62 10.10 9.58 9.38 8.83 8.69					8.37	810	16.8	E-233K 60	R-9905 60	R-9590 65	Yes	N/R
	Singe Piston Part #													
427	WL-2300NF	9.86	9.35	9.16	8.62	8.48	8.18	777	16.8				Yes	N/R
433	WL-2300NF 30	9.98	9.46	9.27	8.73	8.59	8.28	794	16.8	The ring set	ts listed for the "Pis	ton Set" part	Yes	N/R
435	WL-2300NF 40	10.02	9.50	9.30	8.76	8.62	8.31	800	16.8	numbers als	so service the sinal	e pistons.	Yes	N/R
439	WL-2300NF 60	10.10	9.58	9.38	8.83	8.69	8.37	810	16.8		er er en ge		Yes	N/R
	Application Notes	1966-6	69 335H	P/390HF	; Closed	d chamb	er head	s; DUROS	SHIELD® s	skirt coated pis	ston			

PERFORMANCE PISTONS



Chevrolet Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

427 Based Engines (4.250 Bore x 3.766 Stroke)





Dome Shape: .266 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.765 Deck Clearance (in): .020 Skirt Clearance (in): .0035 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitterd	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
433 439	L-2268NF 30 L-2268NF 60		11.25 11.23		10.18 10.18	9.99 9.99		705 719	35.5 34.2	E-233K 30 E-233K 60	R-9905 30 R-9905 60	R-9590 35 R-9590 65	Yes Yes	N/R N/R
	Singe Piston Part #													
439	WL-2268NF 60		11.23		10.18	9.99		719	34.2	The ring set numbers als	is listed for the "Pis so service the single	ton Set" part e pistons.	Yes	N/R
	Application Notes	1966-6	69 425H	P/435HF	: Closed	d chamb	er head	s: DUROS	SHIFI D® 9	skirt coated pis	ton: 60 O/S has 2	255 dome		



Dome Shape: .585 dome; 2 reliefs Con Rod Length (in): 6.135 Compression Distance (in): 1.760 Deck Clearance (in): .025 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

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	Piston Set	Co	mpress	ion Rati	o by Cy	I Head	00	Piston	Dome	SPEE	D-PRO Ring Set	: Part #	Fitted	Look
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
433	L-2308AF 30				11.66	11.39	10.82	748	50.0		R-9904 30	R-9344 35 (L)	Yes	Included
439	L-2308AF 60				11.79	11.53	10.95	764	50.0		R-9904 60	R-9344 65 (L)	res	Included
	Singe Piston Part #													
433	WL-2308AF 30				11.66	11.39	10.82	748	50.0				Yes	Included
439	WL-2308AF 60				11.79	11.53	10.95	764	50.0		WR-9904 60		Yes	Included
	Application Notes: numbers also serv	Dome	machini single pi	ng req'd stons.	w/close	d chamb	ber head	s; DUROS	SHIELD® s	skirt coated pist	on; The ring sets	listed for the "Pi	ston Set" p	part

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).

▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.



SPEED-PRO POWERFORGED Pistons

427 Based Engines (4.250 Bore x 3.766 Stroke)

Dome Shape: Dish Con Rod Length (in): 6.260 Compression Distance (in): 1.640 Deck Clearance (in): .020 Skirt Clearance (in): .0060 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



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	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Se	t Part #	Fitted	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
427 433 439	L-2453F 8.06 7.73 7.60 7.25 7.16 L-2453F 30 8.15 7.82 7.69 7.33 7.24 L-2453F 60 8.25 7.91 7.78 7.42 7.32							668 686 704	-7.9 -7.9 -7.9	E-233K E-233K 30 E-233K 60	R-9905 R-9905 30 R-9905 60	R-9590 5 R-9590 35 R-9590 65	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
427 433 439	WL-2453F WL-2453F 30 WL-2453F 60	8.06 8.15 8.25	7.73 7.82 7.91	7.60 7.69 7.78	7.25 7.33 7.42	7.16 7.24 7.32	6.95 7.03 7.11	668 686 704	-7.9 -7.9 -7.9	The ring se numbers al	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes	Included Included Included
	Application Notes	: Super	charged	: w/.125	longer r	ods: DU	ROSHIE	LD® skirt	coated pi	ston				

454 Based Engines (4.250 Bore x 4.000 Stroke)

Dome Shape: Dish Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0060 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Fitterd	Lask
CID	Part #	100.9 106.9 109.4 116.9 119.0 1 8.44 8.10 7.96 7.59 7.50 7.50 7.58						Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 460 467	L-2453F L-2453F 30 L-2453F 60	8.10 8.19 8.29	7.96 8.06 8.15	7.59 7.68 7.77	7.50 7.58 7.67	 	668 686 704	-7.9 -7.9 -7.9	E-233K E-233K 30 E-233K 60	R-9905 R-9905 30 R-9905 60	R-9590 5 R-9590 35 R-9590 65	Yes Yes Yes	Included Included Included	
	Singe Piston Part #													
454 460 467	WL-2453F WL-2453F 30 WL-2453F 60	8.44 8.54 8.64	8.10 8.19 8.29	7.96 8.06 8.15	7.59 7.68 7.77	7.50 7.58 7.67	 	668 686 704	-7.9 -7.9 -7.9	The ring set numbers als	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes	Included Included Included
	Application Notes	Super	charged	or turbo	charged		SHIFI D	® skirt coa	ated nistor	n				

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog



SPEED-PRO POWERFORGED Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)



Dome Shape: Flat; 2 reliefs; Chamfer Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0030 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Diston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitterd	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 458 460 463 467	L-2377F L-2377F 20 L-2377F 30 L-2377F 40 L-2377F 60	8.62 8.69 8.72 8.76 8.83	8.26 8.33 8.36 8.40 8.46	8.12 8.19 8.22 8.25 8.32	7.74 7.80 7.83 7.86 7.92	7.64 7.70 7.73 7.76 7.82	 	717 728 733 738 749	-4.9 -4.9 -4.9 -4.9 -4.9	E-233K E-233K 20 E-233K 30 E-233K 40 E-233K 60	R-9905 R-9905 30 R-9905 60	R-9590 5 R-9590 35 R-9590 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
454 458 460 463 467	Singe Piston Part # WL-2377F WL-2377F 20 WL-2377F 30 WL-2377F 40 WL-2377F 60	8.62 8.69 8.72 8.76 8.83	8.26 8.33 8.36 8.40 8.46	8.12 8.19 8.22 8.25 8.32	7.74 7.80 7.83 7.86 7.92	7.64 7.70 7.73 7.76 7.82		717 728 733 738 749	-4.9 -4.9 -4.9 -4.9 -4.9	The ring se numbers al	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R

Application Notes: DUROSHIELD® skirt coated piston



Dome Shape: .095 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.645 Deck Clearance (in): .020 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

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	Dicton Sot	Co	mpress	ion Rati	o by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Elited	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 460 462 467	L-2399NF L-2399NF 30 L-2399NF 40 L-2399NF 60	10.10 10.23 10.35 10.41	9.60 9.71 9.83 9.89	9.40 9.52 9.63 9.69	8.87 8.98 9.09 9.13	8.73 8.84 8.94 8.99		661 678 683 695	13.8 13.8 13.8 13.8	E-233K E-233K 30 E-233K 40 E-233K 60	R-9905 R-9905 30 R-9905 60	R-9590 5 R-9590 35 R-9590 65	Yes Yes Yes Yes	Included Included Included Included
	Singe Piston Part #													
454 460 462 467	WL-2399NF WL-2399NF 30 WL-2399NF 40 WL-2399NF 60	10.10 10.23 10.35 10.41	9.60 9.71 9.83 9.89	9.40 9.52 9.63 9.69	8.87 8.98 9.09 9.13	8.73 8.84 8.94 8.99		661 678 683 695	13.8 13.8 13.8 13.8	The ring set numbers als	ts listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes Yes	Included Included Included Included
	Application Notes	: 1971 L	S6; Ope	en cham	ber head	ds; DUR	OSHIEL	D® skirt c	pated pist	on				



SPEED-PRO POWERFORGED Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)

Dome Shape: .200 dome; 1 relief Con Rod Length (in): 6.135 Compression Distance (in): 1.645 Deck Clearance (in): .020 Skirt Clearance (in): .0035 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 141



				ion nau		I Head		Piston	Dome	SPEE	D-PRO Ring Set	i Part #	Elite al	Lask
CID	Part #	100.9	106.9	109.4	116.9	119.0	124	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
460 LV 467 LV	W-2465NF 30 W-2465NF 60	10.72 10.85	10.15 10.28	9.94 10.06	9.34 9.46	9.19 9.30	8.85 8.96	657 661	18.3 18.3			R-10703 35 R-10703 65	Yes Yes	Included Included

Application Notes: Open chamber heads; DUROSHIELD® skirt coated piston

Dome Shape: .270 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.640 Deck Clearance (in): .025 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154



	Piston Sot	Co	ompress	sion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Se	t Part #	Filmed	Lash
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454 460 467	L-2465F L-2465F 30 L-2465F 60	11.34 11.31 11.29	10.69 10.68 10.67	10.44 10.44 10.43	9.78 9.78 9.78	9.60 9.61 9.61		651 655 666	27.1 25.7 24.3	1 E-233K R-9905 R-9590 5 7 E-233K 30 R-9905 30 R-9590 3 3 E-233K 60 R-9905 60 R-9590 6			Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
454 460 467	WL-2465F WL-2465F 30 WL-2465F 60	11.34 11.31 11.29	10.69 10.68 10.67	10.44 10.44 10.43	9.78 9.78 9.78	9.60 9.61 9.61	 	651 655 666	27.1 25.7 24.3	The ring se numbers al	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes Yes Yes	N/R N/R N/R
	A 12 12 AL 1	~			~~~~			~ ~ ~ ~	045	DUDOOL				

Application Notes: Open chamber heads; 30 O/S has .226 dome; 60 O/S has .215 dome; DUROSHIELD® skirt coated piston



SPEED-PRO POWERFORGED Pistons

454 Based Engines (4.250 Bore x 4.000 Stroke)



Dome Shape: .265 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.645 Deck Clearance (in): .020 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.990 Pin Weight (grams): 154

	Diston Cat	Co	mpress	ion Rat	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #		11
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	LOCK Ring
454 460 467	L-2349F L-2349F 30 L-2349F 60	11.90 11.89 11.84	11.18 11.18 11.15	1.18 10.91 10.18 9.99 656 30.6 E-233K R-9905 R-9590 5 1.18 10.91 10.19 10.01 661 29.4 E-233K 30 R-9905 30 R-9590 35 1.15 10.89 10.18 10.00 674 27.9 E-233K 60 R-9905 60 R-9590 65							Yes Yes Yes	N/R N/R N/R		
	Singe Piston Part #													
454 460 467	WL-2349F WL-2349F 30 WL-2349F 60	11.90 11.89 11.84	11.18 11.18 11.15	10.91 10.91 10.89	10.18 10.19 10.18	9.99 10.01 10.00		656 661 674	30.6 29.4 27.9	The ring set numbers als	is listed for the "Pis so service the single	ton Set" part e pistons.	Yes Yes Yes	N/R N/R N/R
	Application Notes	: 1970 L	S6; Clo	sed cha	mber he	ads; 30 (O/S has	.221 dom	e; 60 O/S	has .210 dom	e; DUROSHIELD®	skirt coated pis	ton	



Dome Shape: .580 dome Con Rod Length (in): 6.135 Compression Distance (in): 1.645 Deck Clearance (in): .020 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 175

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	Piston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEED-PRO Ring Set Part #			Fitterd	Leeb
CID	Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
454	L-2307AF				12.35	12.06	11.44	719	50.0		R-9904	R-9344 5 (L)	Yes	Included
460	L-2307AF 30				12.50	12.21	11.58	735	50.0		R-9904 30	R-9344 35 (L)	Yes	Included
467	L-2307AF 60				12.65	12.36	11.72	751	50.0		R-9904 60	R-9344 65 (L)	Yes	Included
	Singe Piston Part #													
454	WL-2307AF				12.35	12.06	11.44	719	50.0				Yes	Included
460	WL-2307AF 30				12.50	12.21	11.58	735	50.0				Yes	Included
467	WL-2307AF 60				12.65	12.36	11.72	751	50.0		WR-9904 60		Yes	Included
	Application Notes: Closed chamber heads require dome modification; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).

▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.



SP	SPEED-PRO POWERFORGED Pistons													
454	Based Eng	ines	(4.250) Bore	e x 4.2	250 St	roke)						
	Dome Shape: .20 Con Rod Length (Compression Dist Deck Clearance (i Skirt Clearance (i	02 dome in): 6.38 ance (in n): .020 n): .003	; 1 relief 85): 1.270) 5			Ring: Pin S Pin D Pin V	s: 1.5M Style: Pr Diameter Veight (!	M, 1.5MM ress or Flo r (in): 0.99 grams): 1	, 3.0MM pat ▲ 90 41	5				
	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	E.u.d	
CID	Part #	100.9	106.9	109.4	116.9	119.0	124	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Lock Ring
489 496	LW-2643F 30 LW-2643F 60	11.85 12.00	11.19 11.33	10.94 11.07	10.25 10.38	10.07 10.20	9.68 9.80	597 601	23 23			R-10703 35 R-10703 65	Yes Yes	Included Included
	Application Notes	Open	chambei	r heads;	DUROS	HIELD®	skirt co	ated pisto	n					
454	454 Based Engines (4.500" Bore Combinations)													
	Dome Shape: Flat; 1 reliefRings: 1/Con Rod Length (in): 6.135Pin Style:Compression Distance (in): 1.645Pin DiameDeck Clearance (in): .020Pin WeighSkirt Clearance (in): .0060Skirt Clearance (in): .0060						s: 1/16, Style: Pi Diameter Veight (1/16, 3/16 ress or Flc r (in): 0.99 grams): 1	6 pat ▲ 90 67		G	C		
CID	Piston Set	Co	mpress	ion Rat	io by Cy	Head (CC	Piston Weight	Dome Volume	SPE	ED-PRO Ring Set	Plasma-Moly	Fitted	Lock
500	Part #	100.9	106.9	109.4	116.9	119.0	124.0	(grams)	(cc)	Rings	Direct Fit Rings	File Fit Rings	Pin	Ring
509 516	L-2513F L-2513F 30		9.35 9.45	9.18 9.29	8.73 8.83	8.61 8.71		690 705 701	-2.4 -2.4		H-10595	R-10451 5 (L) R-10451 35 (L)	Yes Yes	Included Included
522	Application Notes	· 4 000"	9.55 stroke	9.39 CNC m	o.92		HIFI D	skirt coat	-2.4		H-10090 00	n-104413 (L)	Tes	Included
Application Notes: 4.000° stroke; CNC machined; DUROSHIELD® skirt coated piston Dome Shape: Flat; 2 reliefs Rings: .043, .043, 3.0MM Con Rod Length (in): 6.385 Pin Style: Press or Float ▲ Compression Distance (in): 1.270 Pin Diameter (in): 0.990 Deck Clearance (in): .020 Pin Weight (grams): 150 Skirt Clearance (in): .0060 Composition														
		Co	mpress	ion Rat	io by Cv	I Head (CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #		
CID	Piston Set Part #	100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
540 548 555	LW-2633F LW-2633F 30 LW-2633F 60	 	9.86 9.97 10.09	9.69 9.9.79 9.91	9.20 9.30 9.42	9.08 9.18 9.29		578 594 610	-2.4 -2.4 -2.4	 		R-20113 5 R-20113 35 	Yes Yes Yes	Included Included Included
		4.050	atralia		abinadu	Toporor	liahtwa	viaht nin: F		El D® skirt coa	tod nicton			

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog. The sealed Power standard replacement parts catalog.

(L) Low Tension Plasma-Moly File Fit Rings.

PERFORMANCE PISTONS



Chevrolet Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

454 Based Engines (4.500" Bore Combinations)



Dome Shape: .450 dome Con Rod Length (in): 6.385 Compression Distance (in): 1.270 Deck Clearance (in): .020 Skirt Clearance (in): .0060 Rings: .043, .043, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.990 Pin Weight (grams): 150

	Piston Set Part #	Compression Ratio by Cyl Head CC					CC	Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Lask
CID		100.9	106.9	109.4	116.9	119.0	124.0	Weight (grams)	nt Volume s) (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
540 548	LW-2634F LW-2634F 30		14.41 14.58	14.01 14.18	12.96 13.11	12.69 12.84		650 665	40.0 40.0			R-20113 5 R-20113 35	Yes Yes	Included Included
	Application Notes: 4 250" stroke: CNC machined: Tapered lightweight pin: DLIBOSHIELD® skirt coated piston													

PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
396; 402;	427; 454 Engines				
Rod Set					
	O.E. Replacement Competition Series Competition Series Competition Series Competition Series Competition Series Competition Series	8-3190A 8-7200CH C8-7200CH 8-7200CHA C8-7200CHA 8-7310CHA 8-7315CH	A-Series aluminum bearings Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy Super Duty Alloy	Chamfer Chamfer; Coated Chamfer; Dowel hole Chamfer; Dowel hole; Coated Chamfer; 409 dimensions Chamfer; 409 dimensions;	Std-1-10-20-30-40-60 Std-1-1X-9-10-11-20-21-30 Std-1-1X-10-20 Std-1-1X-9-10 Std-1-1X
	Supercharged Alcohol Engines	8-7200SHA	Babbitt	Chamfer; Dowel hole	Std-1-1X Std Only
Main Set					
	O.E. Replacement Supercharged Alcohol Engines Competition Series Competition Series Competition Series	4400MA 136M 141M 162M C141M	A-Series aluminum bearings Babbitt Super Duty Alloy Super Duty Alloy Super Duty Alloy	3/4 Groove 3/4 Groove 3/4 Groove; 409 dimensions 3/4 Groove; Coated	Std-1-2-10-20-30-40 Std-10 Std-1-1X-9-10-11-19-20-21-30 Std Only Std-1-1X-10-20
Cam Set					
	O.E. Replacement; 1966-70 O.E. Replacement; 1965-66 Only Competition Series; Exc. 1965-66 Bowtie CNC Blocks	1404M 1255M 2101M 1874M	Babbitt Babbitt H/D Babbitt Babbitt	Grooved Full round design All 5 bearings are identical	Std Only Std Only Std Only Std Only
Pin Bushing		2304VNH	Bronze	For floating pin conversion; No	1

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
396; 402; 4	127; 454 Engines		
Oil Pump			
	O.E. Replacement O.E. Replacement	224-4154G 224-4154 224-121B	"Short" pump; '85 & up; Check for adequate main cap and crankshaft clearance Check for main cap clearance Check for main cap clearance; 2/4" inlat; High Performance; 25% more volume
		224-1210	than stock pump
	High Volume	224-4153	Check for main cap clearance; Street Performance







OIL PUMPS AND ACCESSORIES



PERFORMANCE CAMS

396, 402, 4	27, 454 Engi	nes								
	CAM &	CAM	IDLE	POWER	DURA	ATION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1004R CS-1029R CS-1088R CS-1167R CS-1015R CS-1015R CS-175R CS-1139R	KC-1004R KC-1029R KC-1088R KC-1015R KC-175R	Pro-1500 Pro-2000 Pro-2000 Pro-3000 Pro-3000 Pro-3000 Pro-3000	Smooth Smooth Smooth Smooth Good Fair Fair	1000-3500 1200-3800 1500-4000 2000-4200 2200-5500 2200-5500	190/200 204/208 204/214 214/214 214/224 222/235 224/232	260/272 298/299 282/292 292/292 292/302 306/322 302/304	.439 .459 .476 .501 .501 .500 .527	.464 .459 .501 .501 .527 .505 .553	110 112 112 114 112 115 114	46 68 51 52 61 88 63
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-1581 VSR-7003 VK-138R	Std.) HT-817R (3R	(Race)					
CS-1224R		Pro-5000	Rough	2800-5800	230/230	288/288	.544	.544	109	74
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-817(VS-1581 VSR-7015 VK-338R	Std.) HT-817R ((Race)					
Marine; 39	6, 402, 427, 4	154 Engines								
CS-1093M		Marine	Smooth		214/218	289/302	.476	.496	115	64
Hydraulic		LIFTERS APPLICATION NO	HT-817 (TES: GM No. 3	Std.) HT-817R (883986; Std. rotation	(Race) n; 300/330/340)/350 H.P. 454	1; Chain d	rive cam		
CS-1047M		Marine	Smooth		224/224	293/293	.510	.510	115	62
Hydraulic		LIFTERS APPLICATION NO	HT-817 (TES: GM No. 1	Std.) HT-817R (4096209; Std. rotatic	(Race) on; 300 H.P. 4	54; 390/400 H	I.P. 502; (Chain driv	e cam	
396, 402, 4	27, 454 Engi	nes								
CS-1072R	KC-1072R	Pro-3000	Good	2000-5500	216/228	288/300	.502	.510	112	70
Hydraulic Retro F	Roller	LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-5010F VS-1581 VSR-7003 VK-138R TES: Cam & Li	RA (Std.) 3R fter Kit incl. cam, lifte	rs, special len	gth push rods	, and thru	st button		
CS-165R	KC-165R	Pro-4000	Fair	3200-6500	242/242	309/295	.520	.520	114	98
Mechanical		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	AT-992 (VS-1581 VSR-701 VK-338R TES: 454-465 b	Std.) 5 R HP LS-7: GM Part No), 3904362					

PERFORMANCE CAMS



Chevrolet Big Block - cont'd.

396, 402, 42	396, 402, 427, 454 Engines - cont'd.											
	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	E LIFT	LOBE			
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP		
CS-1137R		Pro-4000	Rough	2200-6500	246/246	288/288	.623	.623	110			
Mechanical Roller		LIFTERS VALVE SPRING RETAINER LOCKS	AT-6028R VS-1526 VSR-7020 VK-275	RA (Race)	itor goor							
CS-1135R		Pro-4000	Rough	3500-6500	261/271	296/306	.680	.680	108			
Mechanical Roller		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	AT-6028F VS-1604 VSR-7020 VK-275 TES: Steel; Rec	RA (Race)) quires bronze distribu	itor gear		1	1				

PERFORMANCE VALVES



ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES				
0.E. F	Replaceme	nt Valve									
396; 40	2; 427; 454 E	ngines									
Exha	aust										
	1.720	V-1911 V-1989X	.3718	5.355 5.355	45 45	21-4N 21-4N	1966-76; Exc. Hi-Perf., Corvette				
	1.720	V-2450X	.3716	5.355	45	Nimonic	1985-94; Truck; Stellite face				
Intal	1.874	V-1861	.3703	5.362	45	21-4N	1969 H/D				
intar	2.065	V-1912	.3720	5.230	45	SIL-1	1966-76; Exc. Hi-Perf., Corvette				
	2.189	V-1905	.3720	5.228	45	SIL-XBE	Hi-Perf.				
POWE	ERFORGED) Stainless	Steel V	alve							
Exha	aust										
Intel	1.874	V-8005R	.3710	5.362	45	21-2N					
Intar	2.191	V-8007R	.3719	5.239	45	21-4N					
-	2.250	V-8008R	.3710	5.238	45	21-2N					
POWERFORGED Competition Series Stainless Steel Valve											
Exha	aust										
Intol	1.875	V-2053R	.3718	5.349	45	21-2N					
III.dr	2.250	V-2464R	.3720	5.230	45	422					
	2.300	V-2056R	.3719	5.225	45	422					
POWE	ERFORGED	O Competi	tion Seri	es Stainless Ste	el Valve	- With H	ligh Flow Undercut Stem				
Exha	aust										
Intol	1.945	V-2485R	.3718	5.357	45	21-4N					
III.dr	2.190	V-2481R	.3720	5.225	45	422					
Valve	Guide - Ma	anganese	Bronze								
Exha	aust										
		VG-7006R	.3435	2.875			Straight; Used as liner				
Intal	ke	VG-7006B	2425	2 875			Straight: Llead as liner				
Exha	aust		.0-00	2.070							
		VG-7504R VG-7505R	.3730 .3735	2.562 2.421			Stepped; .620 O.D.; Replaces O.E. guide in Cast Iron heads Stepped; .625 O.D.; Replaces O.E. guide in Alum. Heads				
Intal	ke	VG-7505R	.3735	2.421			Stepped; .625 O.D.; Replaces O.E. guide in most heads				



PERFORMANCE VALVES

Chevrolet Big Block - cont'd.

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES					
Valve	Guide - Ma	anganese	Bronze									
396; 40	396; 402; 427; 454 Engines											
Exh	aust											
		VG-7007R	.3725	2.625			Straight; .502 O.D.; Used as liner					
Intal	ke											
		VG-7007R	.3725	2.625			Straight; .502 O.D.; Used as liner					
Valve	Stem Seal											
		ST-2004	.3710				Rubber/PTFE insert; .562 guide dia.; Installation requires					
		ST-2014	.3710				Rubber/PTFE insert; .500 guide dia.; Installation requires					
		ST-2019R	.3720				PTFE; .531 guide dia.; Installation requires valve guide					
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining					



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
396; 402; 4	427; 454 Engines			
Guide Plates				
	MR-1893 MR-1894	Hardened Stamped Steel Hardened Stamped Steel	For 3/8 Push Rods For 7/16 Push Rod	s
Push Rods				
	RP-3254 RP-3255	Hardened Stock Type Hardened Stock Type	5/16 dia. 5/16 dia.	Exh. Int.
	RP-3215R RP-3216R RP-3217R RP-3218R	Chrome Moly Chrome Moly Chrome Moly Chrome Moly	3/8 dia. 3/8 dia. 7/16 dia. 7/16 dia.	Exh. Int. Int. Exh.
	RP-3266R RP-3267R	Hardened Chrome Moly Hardened Chrome Moly	3/8 dia. 3/8 dia.	Int.; For hydraulic roller cam installations Exh.; For hydraulic roller cam installations
	RP-7002R RP-7002R 100 RP-7002R 400 RP-7003R RP-7003R 100 RP-7003R 400 RP-7501R	Hardened Chrome Moly; One Piece Hardened Chrome Moly; One Piece	3/8 dia. 3/8 dia. 3/8 dia. 3/8 dia. 3/8 dia. 3/8 dia. 7/16 dia.	Exh. Exh.; + .100 in length Exh.; + .400 in length; For tall deck blocks Int. Int.; + .100 in length Int.; + .400 in length; For tall deck blocks Exh.
Push Rod Set	RP-5002RK	Hardened: Black Oxide Coated	3/8 dia.	1984 & earlier Engs.
Bocker Arms				
HOURCE ATTIS	R-866R	Stamped Long Slot	1.7 Ratio	
	RR-7004R	Aluminum Roller	1.7 Ratio	Requires 7/16 H/D screw-in stud
	RR-7024R	Stainless Steel Roller	1.7 Ratio	Requires 7/16 H/D screw-in stud
Rocker Adjus	tment Locks MR-1859PL MR-1861PL	7/16 Stud Diameter 7/16 Stud Diameter		For roller rockers For stock style ball pivot rockers
Rocker Studs	MR-1864RS MR-1866RS MR-1867RS	7/16 H/D Screw-In 7/16 H/D Screw-In 7/16 H/D Screw-In		For stock or roller rockers Aluminum head; exhaust; 1.685 thread depth in head For roller rockers; .750 head end depth



Chevrolet Big Block - cont'd.									
ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES					
396; 402	2; 427; 454 Engine	es - cont'd.							
Complete	Timing Sets								
	ČTS-1110NR	Performance Roller; .250" Double Roller	3 Keyway	Exc. Factory roller cam; Exc. Merlin & Vortec					
	CTS-1110R	Performance Roller; .250" Double Roller	3 Keyway	Exc. Factory roller cam; Exc. Merlin & Vortec; When depleted use CTS-1110NR					
	CTS-1110TR	Performance Roller; .250" Double Roller	3 Keyway	Incl. roller thrust brg.; Exc. Factory roller cam; Exc. Merlin & Vortec					
	CTS-3510TX9R	Billet Roller; .250" Double Roller	9 Keyway	Incl. roller thrust brg.; w/o Factory roller cam; Exc. Merlin & Vortec					
	CTS-3610TX9R	Competition Roller; Premium .250" Double Rol	ler 9 Keyway	Incl. roller thrust brg.; w/o Factory roller cam; Exc. Merlin & Vortec					

PERFORMANCE PISTONS



Chrysler Small Block										
SPEED-PRO Hypereutectic Piston Sets with Rings										
360 Engines										
ART NUMBER PISTON TYPE COMPONENT COMPONENT QTY AVAILABLE SIZES										
8KH116CP 30	Hypereutectic	H116CP E-251K	8 1	30-40-60						
COMPRESSION RATIO: 9.5:1 w/68cc heads DOME DESIGN: Flat; 2 reliefs FEATURES: DUROSHIELD® skirt coated piston; CNC machined										

PERFORMANCE PISTONS



SP	EED-PRO H	ypere	utect	ic Pis	tons									
360	360 Engines (4.000 Bore x 3.578 Stroke)													
Dome Shape: Flat; 4 reliefs Rings: 5/64, 5/64, 3/16 Con Rod Length (in): 6.123 Pin Style: Press Compression Distance (in): 1.637 Pin Diameter (in): 0.984 Deck Clearance (in): .050 Pin Weight (grams): 154 Skirt Clearance (in): .0015 Septem Provide Set Part #														
	Piston Set Part #	Compression Ratio by Cyl Head CC					CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	Fitted	Look
CID		57.3	60.6	63.0	65.0	68.4	71.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
360 364 365 367 371	H405CP H405CP 20 H405CP 30 H405CP 40 H405CP 60	 	 	9.00 9.08 9.11 9.15 9.22	8.83 8.90 8.94 8.97 9.04	8.56 8.63 8.66 8.70 8.77	 	581 591 596 601 611	-10.0 -10.0 -10.0 -10.0 -10.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #							-	-					-
360 364 365 367 371	WH405CP WH405CP 20 WH405CP 30 WH405CP 40 WH405CP 60	 	 	9.00 9.08 9.11 9.15 9.22	8.83 8.90 8.94 8.97 9.04	8.56 8.63 8.66 8.70 8.77	 	581 591 596 601 611	-10.0 -10.0 -10.0 -10.0 -10.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.



Chrysler Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

360 Engines (4.000 Bore x 3.578 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.123 Compression Distance (in): 1.660 Deck Clearance (in): .027 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.984 Pin Weight (grams): 154



	Diston Sat	Co	ompress	sion Rati	o by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	Fitted Pin	Lask
CID	Part #	57.3	60.6	63.0	65.0	68.4	71.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings		Ring
360	H116CP			9.94	9.72	9.39	9.15	567	-5.0	E-251K	R-9903	R-9343 5	Yes	Included
364	H116CP 20			10.02	9.81	9.46	9.22	577	-5.0	E-251K 20	R-9903 20	R-9343 25	Yes	Included
365	H116CP 30			10.06	9.85	9.50	9.26	582	-5.0	E-251K 30	R-9903 30	R-9343 35	Yes	Included
367	H116CP 40			10.10	9.89	9.54	9.62	587	-5.0	E-251K 40		R-9343 45	Yes	Included
371	H116CP 60			10.19	9.97	9.62	9.38	597	-5.0	E-251K 60	R-9903 60	R-9343 65	Yes	Included
	Singe Piston Part #													
360	WH116CP			9.94	9.72	9.39	9.15	567	-5.0	WE-251K			Yes	Included
364	WH116CP 20			10.02	9.81	9.46	9.22	577	-5.0				Yes	Included
365	WH116CP 30			10.06	9.85	9.50	9.26	582	-5.0	WE-251K 30		WR-9343 35	Yes	Included
367	WH116CP 40			10.10	9.89	9.54	9.62	587	-5.0	WE-251K 40			Yes	Included
371	WH116CP 60			10.19	9.97	9.62	9.38	597	-5.0	WE-251K 60			Yes	Included

Application Notes: DUROSHIELD® skirt coated piston; CNC machined; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

SPEED-PRO POWERFORGED Pistons

340 Engines (4.040 Bore x 3.313 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.123 Compression Distance (in): 1.840 Deck Clearance (in): -.018 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.984 Pin Weight (grams): 154





Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog

PERFORMANCE ENGINE BEARINGS



Chrysler Small Block - cont'd.

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
318; 340 E	Engines				
Rod Set					
	O.E. Replacement Competition Series	8-2130CP 8-7125CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-1-10-20-30-40-50 Std-1X-10
Main Set					
	O.E. Replacement; 318, 340 1957-73; Exc. truck O.E. Replacement; 318 1974-78 Pass; 1959-87 Truck O.E. Replacement; 318 1979-89 Pass; 1988-02 Truck	4923MA 5024MA 5095MA	A-Series aluminum bearings A-Series aluminum bearings A-Series aluminum bearings		Std-1-10-20-30-40-50-60 Std-1-10-20-30 Std-10-20-30
Cam Set					
	O.E. Replacement; .760 length center bearings O.E. Replacement; .615 length center bearings	1451M 1484M	Babbitt Babbitt		Std Only Std Only
Pin Bushing					
	O.E. Replacement	2134Y			
360 Engin	es				
Rod Set					
	O.E. Replacement Competition Series	8-2130CP 8-7125CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-1-10-20-30-40-50 Std-1X-10
Main Set					
	O.E. Replacement; 1971-73 O.E. Replacement; 1974-93 Competition Series	4948MA 4999MA 120M	A-Series aluminum bearings A-Series aluminum bearings Super Duty Alloy		Std-10-20-30 Std-1-10-20-30 Std-10
Cam Set					
	O.E. Replacement; .760 length center bearings O.E. Replacement; .615 length center bearings	1451M 1484M	Babbitt Babbitt		Std Only Std Only
Pin Bushing					
	O.E. Replacement	2134Y			

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
318; 340;	360 Engines		
Oil Pump			
	O.E. Replacement High Volume	224-4166 224-4166V	
Oil Pump Scr	een		
	O.E. Replacement	224-14239	
Pump Shaft			
	O.E. Replacement	224-6166	

PERFORMANCE CAMS

86

318, 340,	360 Engines									
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALVE LIFT		LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-644	KC-644	Pro-3000	Good	1500-4500	210/220	279/290	.429	.442	114	51
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NOT	HT-2011 VS-678 VSR-7019 See note ES: 340-275 h groove	(Std.) HT-2011F 5 R s HP; Chrysler Part No.	R (Race) . 2899206; VF	(-174R 4 groo	ove; VK-66	SR 2 groov	ve; VK-13	8R 1







Chrysler Small Block - cont'd.

318, 340, 360 Engines - cont'd.												
	CAM &	CAM & CAM IDLE POWER		POWER	DUR	TION	VALVE LIFT		LOBE			
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP		
CS-1006R CS-1019R	KC-1006R KC-1019R	Smooth Fair	1500-4000 2200-5200	204/204 214/224	278/278 288/298	.420 .443	.420 .465	110 112	50 61			
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NOT	HT-2011 VS-678 VSR-7015 See notes ES: VK-174R	(Std.) HT-2011F 5R s 4 groove; VK-66R 2	R (Race) groove; VK-13	38R 1 groove						

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PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. F	Replaceme	nt Valve					
318 En	gines						
Exh	aust						
	1.500	V-2029	.3715	5.002	43	21-4N	1967-78; 4 groove stem
	1.500	V-2141	.3715	4.982	45	21-4N	1979-89; Exc.'81-89 w/4 Bbl. Carb; H/D, Police; 4 groove stem
	1.517	V-2154	.3716	4.994	45	21-4N	1979-88; L/D; 2 groove stem
	1.517	V-3951	.3717	4.994	45	21-4N	1989-91
Intel	1.624	V-2654	.3115	4.920	44	21-4N	1992-94
Inta	Ke	V 4700	0705	4.070	45	011 4	
	1.780	V-1/22	.3725	4.979	45	SIL-1	1969-91; EXC. 81-89 W/4 Bbl. Carb; H/D.; Police; 2 groove stem
	1.880	V-1908	.3725	4.981	45	SIL-1	1981-89; H/D; Police w/4 Bbl. Carb.
	1.920	V-3954	.3115	4.905	44	SIL-1	1992-94
340 En	gines						
Exh	aust						
	1.600	V-3925	.3715	5.005	43	21-4N	1968-73
Inta	ke						
	1.880	V-1908	.3725	4.981	45	SIL-1	1972-73; 2 groove stem
	2.020	V-1864	.3725	4.986	45	SIL-XBE	
360 En	gines						
Exh	aust						
	1.600	V-2113	.3715	5.005	43	21-2N	1977-78; 2 groove stem
	1.617	V-2556	.3716	4.995	45	21-4N	1979-88; 2 groove stem
	1.617	V-2556	.3716	4.995	45	21-4N	1989-91; 2 groove stem
	1.624	V-2654	.3115	4.920	44	21-4N	1992-94
Inta	ke						
	1.880	V-1908	.3725	4.981	45	SIL-1	1971-76; 1980-91; 2 groove stem
	1.920	V-3954	.3115	4.905	44	SIL-I	1992-94
POWI	ERFORGE) Stainless	Steel Va	alve			
318; 34	10; 360 Engin	es					
Exh	aust						
	1.600	V-8009R	.3715	5.008	45	21-2N	
Inta	ke						
	2.020	V-8010R	.3725	5.000	45	21-2N	
POW	ERFORGE) Competit	ion Serie	es Stainless Ste	el Valve	- With H	ligh Flow Undercut Stem
Inta	ke						
	2.020	V-2486R	.3725	5.008	45	422	
Valve	Guide - Ma	anganese l	Bronze				
			0705	0.075			Obside Octobelande 500.0 D
		VG-7004R VG-7503R	.3725 .3725	2.375 2.500			Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal

PERFORMANCE VALVES -

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Cnr	Chrysler Small Block - cont'd.											
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES					
Valve	alve Stem Seal											
318; 34	318; 340; 360 Engines											
		ST-2004	.3710				Rubber/PTFE insert; .562 guide dia.; Installation requires					
		ST-2019R	.3720				PTFE; .531 guide dia.; Installation requires valve guide machining					

VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
273; 318	8; 340, 360 Engine	S		
Complete	Timing Sets			
	ČTS-1103R	Performance Roller; .250" Double Roller	3 Keyway	
	CTS-3503X9R	Billet Roller; .250" Double Roller	9 Keyway	
	CTS-3603X9R	Competition Roller; Premium .250" Double Rol	ler 9 Keyway	
318; 34	0, 360 Engines			
Push Rod	s			
	RP-3159 RP-3194	Stock Type Stock Type	5/16 dia. 5/16 dia.	Use w/Adj. ball & socket type rocker arms Non-adj.
	RP-3219R 100	Chrome Moly	5/16 dia.	For use with adj. valvetrain; .100 shorter length
Rocker Ar	ms			
	R-862	O.E. Right		Non-adj.; Use RP-3194 Push Rods
	R-861	O.E. Left		Non-adj.; Use RP-3194 Push Rods
Rocker Sh	naft			
	RS-626	Stock Type		

PERFORMANCE PISTONS

Chrysler Big Block

88

SPEED-PRO POWERF	SPEED-PRO POWERFORGED Piston Sets with Rings											
440 Engines												
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES								
8KL2266F 30	POWERFORGED	L-2266F E-424K	8 1	30-40-60								
	COMPRESSION RATIO: 8.60 DOME DESIGN: Flat FEATURES: DU	6:1 w/88cc heads t ROSHIELD® skirt coated piston										
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES								
8KL2355F 30	POWERFORGED	L-2355F E-424K	8 1	30-40-60								
	COMPRESSION RATIO:9.3DOME DESIGN:FlatFEATURES:DU	7:1 w/88cc heads t ROSHIELD® skirt coated piston										







Chrysler Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

383 Engines (4.250 Bore x 3.375 Stroke)

Dome Shape: Flat Con Rod Length (in): 6.385 Compression Distance (in): 1.920 Deck Clearance (in): .012 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.220 Pin Weight (grams): 218



CID	Dioton Sot	Co	mpressi	on Rati	o by Cy	I Head (00	Piston	Dome	ne SPEED-PRO Ring Set Part #				
	Part #	78.5	88.0					Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
389 391 394	L-2315NF 30 L-2315NF 40 L-2315NF 60	9.77 9.81 9.84	8.94 8.98 9.01	 	 	 	 	781 787 800	0.0 0.0 0.0	E-233K 30 E-233K 40 E-233K 60	R-9905 30 R-9905 60	R-9590 35 R-9590 65	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
389 391	WL-2315NF 30 WL-2315NF 40	9.77 9.81	8.94 8.98					781 787	0.0 0.0	The ring se numbers al	Yes Yes	N/R N/R		
	Application Notes: Closed chamber - 78 5cc: Open chamber - 88cc: DUBOSHIELD® skirt coated piston													

440 Engines (4.320 Bore x 3.750 Stroke)

Dome Shape: Flat Con Rod Length (in): 6.670 Compression Distance (in): 1.991 Deck Clearance (in): .089 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.220 Pin Weight (grams): 218



	Picton Sot	Co	mpressi	on Rati	io by Cy	/I Head (00	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Elute d	Lask
CID	Part #	78.5	88.0			-		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
440	L-2266F	9.23	8.58					835	0.0	E-424K			Yes	N/R
446	L-2266F 30	9.33	8.66					855	0.0	E-424K 30		R-9224 35	Yes	N/R
448	L-2266F 40	9.36	8.69					862	0.0	E-424K 40			Yes	N/R
452	L-2266F 60	9.42	8.75					875	0.0	E-424K 60		R-9224 65	Yes	N/R
	Singe Piston Part #													
440	WL-2266F	9.23	8.58					835	0.0				Yes	N/R
446	WL-2266F 30	9.33	8.66					855	0.0	The ring set	s listed for the "Pist	ton Set" part	Yes	N/R
448	WL-2266F 40	9.36	8.69					862	0.0	numbers als	so service the single	e pistons.	Yes	N/R
452	WL-2266F 60	9.42	8.75					875	0.0		5		Yes	N/R
	Application Notes: Closed chamber - 78.5cc; Open chamber - 88cc; DUROSHIELD® skirt coated piston													



Chrysler Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

440 Engines (4.320 Bore x 3.750 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 6.670 Compression Distance (in): 2.061 Deck Clearance (in): .019 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.220 Pin Weight (grams): 218

	Diston Sot	Co	mpress	ion Rat	io by Cy	/I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	78.5	88.0					Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
440	L-2355F	10.05	9.26					859	-7.0	E-424K			Yes	N/R
446	L-2355F 30	10.17	9.37					879	-7.0	E-424K 30		R-9224 35	Yes	N/R
448	L-2355F 40	10.21	9.41					886	-7.0	E-424K 40			Yes	N/R
452	L-2355F 60	10.29	9.48					899	-7.0	E-424K 60		R-9224 65	Yes	N/R
	Singe Piston Part #													
440	WL-2355F	10.05	9.26					859	-7.0				Yes	N/R
446	WL-2355F 30	10.17	9.37					879	-7.0	The ring set	ts listed for the "Pis	ton Set" part	Yes	N/R
448	WL-2355F 40	10.21	9.41					886	-7.0	numbers als	so service the sinal	e pistons.	Yes	N/R
452	WL-2355F 60	10.29	9.48					899	-7.0		5		Yes	N/R

Application Notes: 1970-72 "Six-Pack"; DUROSHIELD® skirt coated piston



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 6.768 Compression Distance (in): 2.067 Deck Clearance (in): .015 Skirt Clearance (in): .0035 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 1.094 Pin Weight (grams): 190

	Piston Sot	Compression Ratio by Cyl Head CC					00	Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Laak
CID	Part #	78.5	88.0					Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
446 448	LW-2355NF 30 LW-2355NF 40	10.35 10.39	9.52 9.56					690 694	-5.6 -5.6			R-10704 35 R-10704 65	Yes Yes	Included Included
	Application Notes: Lightweight: DUROSHIELD [®] skirt coated piston													



Chrysler Big Block - cont'd.

SPEED-PRO POWERFORGED Pistons

440 Engines (4.320 Bore x 3.750 Stroke)

Dome Shape: .140 dome Con Rod Length (in): 6.670 Compression Distance (in): 2.029 Deck Clearance (in): .051 Skirt Clearance (in): .0050 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.094 Pin Weight (grams): 191



SPEED-PRO Ring Set Part # **Compression Ratio by Cyl Head CC** Piston Dome Piston Set Fitted Lock CID Weight Volume Moly Plasma-Moly Plasma-Moly Part # 78.5 88.0 Ring Pin Direct Fit Rings (grams) (cc) File Fit Rings Rings 446 L-2295F 30 11.34 10.34 --826 12.1 R-9278 35 (L) (L) Yes Included ---------------452 L-2295F 60 11.34 10.34 836 11.1 R-9278 65 Yes Included Singe Piston Part # 826 836 The ring sets listed for the "Piston Set" part 446 WL-2295F 30 10.34 Yes 11.34 12.1 Included ------------452 WL-2295F 60 10.34 11.34 ---------11.1 numbers also service the single pistons. Yes Included Application Notes: Closed chamber - 78.5cc; Open chamber - 88cc; 60 O/S has .125 dome; DUROSHIELD® skirt coated piston



PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
383; 400 l	Engines				
Rod Set	O.E. Replacement	8-2320CP	Overplated Copper-Lead Alloy		Std-10-20-30-40-50
Main Set	O.E. Replacement; 1961-78	4094M	Overplated Copper-Lead Alloy		Std-10-20-30-40-60
Cam Set	O.E. Replacement Competition Series	1453M 2111M	Babbitt H/D Babbitt	Full round design Full round design	Std Only Std Only
426; 440 I	Engines				
Rod Set	O.E. Replacement Competition Series Competition Series Competition Series	8-2320CP 8-7135CH 8-7300CHA 8-7300SHA	Overplated Copper-Lead Alloy Super Duty Alloy Super Duty Alloy Babbitt	Chamfer; Dowel hole; Top Fuel & Funny Car Chamfer; Dowel hole; Top Fuel & Funny Car	Std-10-20-30-40-50 Std-10 Std-10 Std-1-10
Flange Set	Competition Series	7133SHC	Babbitt	Flange bearing only; Top Fuel & Funny Car	Std Only
Main Set	O.E. Replacement; 1972-73 Truck O.E. Replacement; 1963-74 Passenger O.E. Replacement; 1974-79 Competition Series Competition Series	4095M 4924MA 5025MA 119M 142M	Overplated Copper-Lead Alloy A-Series aluminum bearings A-Series aluminum bearings Super Duty Alloy Super Duty Alloy	Full groove Partial groove Partial groove 3/4 Groove 3/4 Groove; Top Fuel	Std-10-20-30-40 Std-10-20-30 Std-10-20-30 Std-10 Std-110
Cam Set	O.E. Replacement Competition Series	1453M 2111M	Babbitt H/D Babbitt	Full round design Full round design	Std Only Std Only

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.

PERFORMANCE ENGINE BEARINGS

Chrysler Big Block - cont'd.										
ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES					
488; Viper	488; Viper V10 Engines									
Main Set										
	Competition Series	156M	Super Duty Alloy	3/4 Groove	Std-1-1X					

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES	
383; 400;	426; 440 Engines			
Oil Pump				
	O.E. Replacement High Volume High Pressure	224-4174 224-4174V 224-43366A		
Pump Shaft	-			
-	O.E. Replacement	224-6174		

PERFORMANCE CAMS

Big Block	Big Block										
	CAM &	CAM	IDLE	POWER	DUR	TION	VALV	E LIFT	LOBE		
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP	
CS-661 CS-1098R CS-1148R	KC-661 KC-1148R	Pro-3000 Pro-2000 Pro-3000	Good Smooth Good	2000-4500 1500-4000 2000-5500	214/225 204/214 224/224	292/309 278/288 289/289	.449 .420 .455	.464 .443 .455	115 112 112	46 51 48	
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NOT	HT-976 (VS-865R VSR-7003 See note TES: VK-174R	Std.) HT-2011R 3R s 4 groove; VK-66R 2	(Race) groove; VK-13	38R 1 groove					

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. I	Replacem	ent Valve					
383; 40	00; 413; 426	; 440 Engines					
Exh	aust						
	1.598 1.740	V-1339 V-1900	.3715 .3717	4.890 4.884	45 45.30	21-2N 21-4N	1966-67; 4 groove stem 1968-76; 4 groove stem
Inta	ke						
	2.080 2.080	V-1386 V-2065	.3725 .3721	4.868 4.878	45 45	SIL-1 SIL-XBE	All Exc. '70-71 w/3-2 Bbl. Carbs.; 2 groove stem 2 groove stem
POW	ERFORGE	ED Stainless	Steel Va	alve			
Exh	aust						
	1.740 1.811	V-8036R V-8011R	.3720 .3720	4.894 4.894	45 45	21-2N 21-4N	
Inta	ke						
	2.079 2.140	V-8012R V-8013R	.3724 .3720	4.884 4.882	45 45	21-4N 21-2N	
Valve	Guide - N	langanese E	Bronze				
		VG-7004R VG-7503R	.3725 .3725	2.375 2.500			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal

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SPEED PRO







Chi	rysler B	ig Bloc	K - cont'd				
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH ANG	LE MATERIAL	NOTES	
Valve	Stem Sea	I					
383; 40	00; 413; 426;	440 Engines					
		ST-2004	.3710			Rubber/PTFE insert; .562 guide dia.; Installation re	equires
		ST-2019R	.3720			PTFE; .531 guide dia.; Installation requires valve g machining	juide
	EED				V	ALVETRAIN COMPONE	ENTS
ENGINE	P/N		MATERIAL		SPECIFICATION	S NOTES	
361;3	383; 400; 4	13; 426; 44	10 Engines	6			
Comple	ete Timina Set	s					
	ČTS-1 CTS-1	104R 125R	Performan Performan	ce Roller; .250" Double Roller ce Roller; .250" Double Roller	3 Keyway 3 Keyway	1 bolt cam 3 bolt cam	
	CTS-3	525TX9R	Billet Rolle	r; .250" Double Roller	9 Keyway	3 bolt cam; Incl. roller thrust brg.	
	CTS-3	625TX9R	Competition	Roller; Premium .250" Double Ro	ller 9 Keyway	3 bolt cam; Incl. roller thrust brg.	
383; 4	400; 413; 4	26; 440 En	gines				
Push R	ods						
	RP-30	31	Stock Type	9	5/16 dia.	383; 1959-67	
	RP-32	21R	Chrome M	oly	5/16 dia.	440; 1968-79	
	RP-33	20R	Hardened	Chrome Moly	3/8 dia.	426 Wedge	
Rocker	Arms						
	R-828		O.E. Right	Hand		Non-adj.	

Rocker Shaft RS-612

R-829

O.E. Left Hand

Stock Type



. . .

PERFORMANCE ENGINE BEARINGS

Non-adj.

Fora	L4				
ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
1.6L Eng	ines				
Rod Set	O.E. Replacement	4-2785CP	Overplated Copper-Lead Alloy		Std-10-20-30
Main Set	O.E. Replacement	4865M	Overplated Copper-Lead Alloy		Std-10-20
Cam Set	O.E. Replacement	1459M	Babbitt		Std Only
Pin Bushing	O.E. Replacement	2789Y20			
2.0L Eng	ines				
Cam Set	O.E. Replacement	1412M	Babbitt		Std Only
2.0L Zete	ec DOHC Engines				
Main Set	Competition Series	158M	Super Duty Alloy	3/4 Groove	Std Only
2.3L OH	C Engines				
Rod Set	O.E. Replacement Competition Series	4-3545A 4-7180CH	A-Series aluminum bearings Super Duty Alloy		Std255075-1.00MM Std-1-1X-10

PERFORMANCE ENGINE BEARINGS

Ford L4 - cont'd.

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
2.3L OHC	Engines - cont'd.				
Main Set					
	O.E. Replacement; Through 1988 Competition Series	4979M 127M	Overplated Copper-Lead Alloy Super Duty Alloy	3/4 Groove	Std255075-1.00MM Std-10
Cam Set					
	O.E. Replacement	1443M	Babbitt		Std Only
Aux. Shaft Se	et				
	O.E. Replacement	1460M	Babbitt		Std Only

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES						
2.3L OHC	2.3L OHC Engines								
Oil Pump									
	O.E. Replacement O.E. Replacement High Volume	224-41160 224-43405 224-41160V	Before 4/08/85; Exc. turbo w/Turbo Not for use w/Aluminum oil pan						
Oil Pump Scre	een								
	O.E. Replacement O.E. Replacement	224-12160 224-11160	Exc. Pinto, Bobcat, Mustang II Pinto, Bobcat, Mustang II						
Pump Shaft									
-	O.E. Replacement	224-61160							

PERFORMANCE CAMS

140 (2.3L) Engines										
	CAM &	CAM	IDLE	POWER	DURATION		VALVE LIFT		LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1156R		Pro-3000	Good	1500-5000	220/220	282/282	.454	.454	112	46
Hydraulic		LIFTERS	HT-2012	(Std.)						
		VALVE SPRING	VS-857							
		LOCKS	See note	s						
		APPLICATION NOTES: VK-205 4 groove; VK-315R 1 groove								

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH		ANGLE	MATERIAL	NOTES
O.E.	Replacem	ent Valve						
2.3L E	ingines							
Inta	a ke 1.735	V-2170	.3419	4.787		45	SIL-1	
POWERFORGED Competition Series Stainless Steel Valve								
Ext	haust 1.590	V-2423R	.3410	4.848	+.050	45	21-4N	For small base circle cams; Shorten for stock cams

VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS NOTES							
2.3L Er	2.3L Engines									
Follower										
	R-873	Stock Type								

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PRO

PRO


VALVETRAIN COMPONENTS

PERFORMANCE PISTONS

Ford L4 - cont'd.

ENGINE P/N

2.3L Engines - cont'd.

Timing Components

222-14

Timing Belt

MATERIAL



Ford Modular V8

SPEED-PRO Hypereutectic Piston Sets with Rings

4.6L 2V Engines

not in inginot				
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KH591CP .50MM	Hypereutectic	H591CP E-916K	8 1	.5075-1.00MM
	COMPRESSION RATIO: 9.45 DOME DESIGN: .152 FEATURES: DUF	:1 w/63cc heads dish IOSHIELD® skirt coated piston		

SPECIFICATIONS

NOTES

PERFORMANCE PISTONS

SPEED-PRO Hypereutectic Pistons

4.6L (281) Engines (3.551 Bore x 3.542 Stroke)

Dome Shape: .152 x 2.70" dia. Dish Con Rod Length (in): 5.933 Compression Distance (in): 1.214 Deck Clearance (in): .001 Skirt Clearance (in): .0006 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press Pin Diameter (in): 0.866 Pin Weight (grams): 107



Piston Set		Co	mpress	ion Rati	o by Cy	I Head O	00	Piston	Dome	SPEED	-PRO Ring Set	Part #	Filter	Lask
CID	Part #	44.0	51.8					Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
281	H591CP	10.36	9.31					349	-10.5	E-916K			Yes	N/R
282	H591CP .25MM	10.42	9.35					353	-10.5				Yes	N/R
284	H591CP .50MM	10.47	9.45					357	-10.5	E-916K .50MM		R-10596 .64MM	Yes	N/R
285	H591CP .75MM	10.52	9.49					361	-10.5	E-916K .75MM		R-10596 .89MM	Yes	N/R
287	H591CP 1.00MM	10.57	9.54					365	-10.5	E-916K 1.00MM		R-10596 1.14MM	Yes	N/R
	Singe Piston Part #													
281	WH591CP	10.36	9.31					349	-10.5	WE-916K			Yes	N/R
282	WH591CP .25MM	10.42	9.35					353	-10.5				Yes	N/R
284	WH591CP .50MM	10.47	9.45					357	-10.5				Yes	N/R
285	WH591CP .75MM	10.52	9.49					361	-10.5				Yes	N/R
287	WH591CP 1.00MM	10.57	9.54					365	-10.5				Yes	N/R
	Application Notes: pistons.	2 valve	e; 1991-9	95; DUR	OSHIEL	.D [®] skirt	coated	piston; Th	e ring set	s listed for the "P	iston Set" part r	numbers also ser	vice the sir	ngle



Ford Modular V8 - cont'd.

SPEED-PRO Hypereutectic Pistons

4.6L (281) Engines (3.551 Bore x 3.542 Stroke)



Dome Shape: .060 x 2.68" dia. dish Con Rod Length (in): 5.933 Compression Distance (in): 1.214 Deck Clearance (in): .001 Skirt Clearance (in): .0006 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.866 Pin Weight (grams): 107

		mpress	ion Rati	o by Cy	/I Head (20	Diston	Domo	SPEED	-PRO Ring Set	Part #			
CID	Piston Set Part #	44.0	51.8				-	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
281	H614CP	11.67	10.32					349	-3.0	E-916K			Yes	Included
284	H614CP .50MM	11.79	10.50					357	-3.0	E-916K .50MM		R-10596 64MM	Yes	Included
285	H614CP .75MM	11.84	10.55					361	-3.0	E-916K .75MM		R-10596 89MM	Yes	Included
287	H614CP 1.00MM	11.90	10.60					365	-3.0	E-916K 1.00MM		R-10596 114MM	Yes	Included
	Singe Piston Part #													
281	WH614CP	11.67	10.32					349	-3.0	WE-916K			Yes	Included
284	WH614CP .50MM	11.79	10.50					357	-3.0				Yes	Included
285	WH614CP .75MM	11.84	10.55					361	-3.0				Yes	Included
287	WH614CP 1.00MM	11.90	10.60					365	-3.0				Yes	Included
	Application Notes	: 4 valv	e; DURC	SHIELD	® skirt o	coated pi	ston; Th	ie ring set	s listed fo	r the "Piston Set"	part numbers a	also service the s	ingle pisto	ns.
SP	EED-PRO P	OWE	RFOR	GED	Pisto	ns								
4.6	L (281) Engi	nes (3.551	Bore	x 3.5	42 Sti	oke)							
	C		-											





Dome Shape: Dish Con Rod Length (in): 5.933 Compression Distance (in): 1.214 Deck Clearance (in): .012 Skirt Clearance (in): .0035 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.866 Pin Weight (grams): 121

000

	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head	CC	Piston	Dome	SPEED	-PRO Ring Set	Part #	Fitted	Lash
CID	Part #	44.0	51.8	54.0				Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
281	L-2623F	9.77	8.84	8.61				336	-13.5	E-916K			Yes	Included
284	L-2623F .50MM	9.87	8.93	8.70				343	-13.5	E-916K .50MM		R-10596 .64MM	Yes	Included
285	L-2623F .75MM	9.92	8.97	8.74				347	-13.5	E-916K .75MM		R-10596 .89MM	Yes	Included
	Singe Piston Part #													
281	WL-2623F	9.77	8.84	8.61				336	-13.5	WE-916K			Yes	Included
	Application Notes: Cobra 4 valve, DOHC Supercharged; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

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Ford Modular V8 - cont'd.

SPEED-PRO POWERFORGED Pistons

4.6L (281) Engines (3.551 Bore x 3.542 Stroke)

Dome Shape: .150 x 2.70" dia. dish Con Rod Length (in): 5.933 Compression Distance (in): 1.214 Deck Clearance (in): .001 Skirt Clearance (in): .0030 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.866 Pin Weight (grams): 107



GDGI

	Diston Sat	Co	mpressi	on Rati	o by Cy	l Head	CC	Piston	Dome	SPEED	-PRO Ring Set	Part #		
CID	Part #	44.0	51.8					Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
281	L-2608F	10.41	9.35					333	-10.2	E-916K			Yes	Included
284	L-2608F .50MM	10.51	9.44					341	-10.2	E-916K .50MM		R-10596 .64MM	Yes	Included
285	L-2608F .75MM	10.56	9.48					345	-10.2	E-916K .75MM		R-10596 .89MM	Yes	Included
	Singe Piston Part #													
281	WL-2608F	10.41	9.35					333	-10.2	WE-916K			Yes	Included
284	WL-2608F .50MM	10.51	9.44					341	-10.2				Yes	Included
285	WL-2608F .75MM	10.56	9.48					345	-10.2				Yes	Included
	Application Notes: 2 valve; Replacement for 1991-95 applications; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

Dome Shape: .060 x 2.680" dia. dish Con Rod Length (in): 5.933 Compression Distance (in): 1.214 Deck Clearance (in): .001 Skirt Clearance (in): .0030 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.866 Pin Weight (grams): 107



DG

010	Piston Sat	Co	mpressi	on Rati	io by Cy	o by Cyl Head CC			Dome	SPEED	-PRO Ring Set	: Part #	Fitted	Lask
CID	Part #	44.0	51.8				-	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
284	L-2609F .50MM	11.88	10.50					365	-2.8	E-916K .50MM		R-10596 .64MM	Yes	Included
	Application Notes: 4 valve; DUROSHIELD [®] skirt coated piston													



Ford Modular V8 - cont'd.

SPEED-PRO POWERFORGED Pistons

5.4L (330) Engines (3.551 Bore x 4.160 Stroke)



Dome Shape: Dish Con Rod Length (in): 6.657 Compression Distance (in): 1.221 Deck Clearance (in): .118 Skirt Clearance (in): .0035 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.866 Pin Weight (grams): 121

	Diston Sat	Co	mpressi	ion Rat	io by Cy	I Head (00	Piston	Dome	SPEEL	D-PRO Ring Set	t Part #	Fitted	Look
CID	Part #	44.0) 51.8			Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring		
330 333 335	L-2622F L-2622F .50MM L-2622F .75MM	8.53 8.60 8.63	7.93 7.99 8.03	 		 	 	320 327 331	-20.5 -20.5 -20.5	E-916K E-916K .50MM E-916K .75MM		 R-10596 .64MM R-10596 .89MM	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
335	WL-2622F 75MM 8.63 8.03 331 -20.5 The ring sets listed for the "Piston Set" part numbers also service the single pistons.										ton Set" part e pistons.	Yes	Included	
Application Notes: Lightning; 2 valve; SOHC Supercharged; DUROSHIELD® skirt coated piston														

PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
4.6L Engi	nes				
Rod Set			0		
	Competition Series	8-7250CH	Super Duty Alloy		Std026026X25MM
Main Set					
	Competition Series Competition Series	148M 149M	Super Duty Alloy Super Duty Alloy	SOHC DOHC; Cobra	Std026MM Std026026X25MM
5.4L Engi	nes				
Rod Set					
	Competition Series	8-7250CH	Super Duty Alloy		Std026026X25MM
Main Set					
	Competition Series	153M	Super Duty Alloy		Std026026X25MM

VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
4.6L; 5.4L	Engines			
Complete Tin	ning Sets CTS-3676X9R	Competition Roller; Premium .	250" Double Roller 9 Keyway	4V; Incl. secondary sprockets w/chain

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Ford Small Block

SPEED-PRO Hyp	ereutectic Piston Sets w	ith Rings							
302 Engines									
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH273CP 30	Hypereutectic	H273CP E-251K	8 1	30-40-60					
	COMPRESSION RATIO: 8 DOME DESIGN: F FEATURES: [8.6:1 w/63cc heads Flat; 4 reliefs DUROSHIELD® skirt coate	ed piston						
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KH120CP 30	Hypereutectic	H120CP R-8902	8 1	30					
	COMPRESSION RATIO: 9 DOME DESIGN: F FEATURES: E	9.09:1 w/63cc heads Flat; 2 reliefs DUROSHIELD® skirt coate	ed piston; CNC machined						
SPEED-PRO PO\	WERFORGED Piston Sets	s with Rings							
302 Engines									
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KL2482F 30	POWERFORGED	L-2482F E-251K	8 1	30-40-60					
	COMPRESSION RATIO: 9 DOME DESIGN: F FEATURES: [9.13:1 w/63cc heads Flat; 4 reliefs DUROSHIELD® skirt coate	ed piston						
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KL2488F 30	POWERFORGED	L-2488F E-458K	8 1	30-40					
	COMPRESSION RATIO: 9 DOME DESIGN: F FEATURES: [9.53:1 w/63cc heads Flat; 4 reliefs DUROSHIELD® skirt coate	ed piston						
351W Engines									
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES					
8KL2446F 30	POWERFORGED	L-2446F E-251K	8 1	30-40					
COMPRESSION RATIO: 9.06:1 w/63cc heads DOME DESIGN: .110 dish FEATURES: DUROSHIELD® skirt coated piston									



SPEED-PRO Hypereutectic Pistons

289 Engines (4.000 Bore x 2.870 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.155 Compression Distance (in): 1.605 Deck Clearance (in): .011 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 152

		•		Les Dell			~~			0055		Deal #		
015	Piston Set	Co	mpress	ion Rati	o by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lock
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
289	H273CP	9.00	8.62	8.41	8.18	7.69		579	-8.0	E-251K	R-9903	R-9343 5	Yes	Included
291	H273CP 20	9.08	8.69	8.48	8.25	7.75		589	-8.0	E-251K 20	R-9903 20	R-9343 25	Yes	Included
293	H2/3CP 30	9.12	8.73	8.52	8.28	7.79		594	-8.0	E-251K 30	R-9903 30	R-9343 35	Yes	Included
294 297	H273CP 60	9.10	8.84	8.63	0.32 8.39	7.89		609	-8.0	E-251K 40	B-9903 60	R-9343 65	Yes	Included
201	Singe Piston Part #	0.2.		0.00	0.00				0.0					monadoa
289	WH273CP	9.00	8.62	8.41	8.18	7.69		579	-8.0	WE-251K			Yes	Included
291	WH273CP 20	9.08	8.69	8.48	8.25	7.75		589	-8.0				Yes	Included
293	WH273CP 30	9.12	8.73	8.52	8.28	7.79		594	-8.0	WE-251K 30		WR-9343 35	Yes	Included
294	WH273CP 40 WH273CP 60	9.16	8.77	8.55	8.32	7.82		599	-8.0	WE-251K 40			Yes	
231		J.24		0.00 @ al.:	0.03	7.03			-0.0				163	Included
	Application Notes:	DURU	SHIELD	SKIRT C	oated pi	ston; In	ie ring se	ets listed to	or the "Pis	ston Set" part n	umbers also serv	ice the single pis	tons.	
302	Engines; 1	968-7	2; '77	-Late	r Bloo	ck Wi	th 8.2	06 Dec	k Heig	ght (4.000	Bore x 3.00	0 Stroke)		
Dome Shape: .060 dish; 2 reliefs Rings: 1/16, 1/16, 3/16 Con Rod Length (in): 5.090 Pin Style: Press or Float ▲ Compression Distance (in): 1.615 Pin Diameter (in): 0.912 Deck Clearance (in): .001 Pin Weight (grams): 121														
	Piston Set	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lock
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
306	H132CP 30	9.02	8.66	8.46	8.23	7.76		514	-15.0	R-8902 30	R-9902 30	R-9771 35	Yes	Included
307	H132CP 40	9.06	8.69	8.49	8.27	7.80		519	-15.0	H-8902 40	R-9902 40	R-9771 45	Yes	Included
000	Singe Piston Part #	0.00		0.40		7 70			15.0			N/D 0774 05		
306	WH132CP 30 WH132CP 40	9.02 9.06	8.69 8.69	8.46 8.49	8.23 8.27	7.76		514 519	-15.0 -15.0		WH-9902 30 	WH-9//1 35 	Yes	Included
	Application Notes: CNC machined; Lightweight pin; DUROSHIELD [®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO Hypereutectic Pistons

302 Engines; 1968-72; '77-Later Block With 8.206 Deck Height (4.000 Bore x 3.000 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.605 Deck Clearance (in): .011 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 152



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	E.u. I	
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
302 305 306 307 311	H273CP H273CP 20 H273CP 30 H273CP 40 H273CP 60	9.36 9.44 9.49 9.53 9.61	8.96 9.04 9.08 9.12 9.20	8.74 8.82 8.86 8.90 8.97	8.50 8.57 8.61 8.65 8.72	7.99 8.06 8.09 8.13 8.20		579 589 594 599 609	-8.0 -8.0 -8.0 -8.0 -8.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
302 305 306 307 311	WH273CP WH273CP 20 WH273CP 30 WH273CP 40 WH273CP 60	9.36 9.44 9.49 9.53 9.61	8.96 9.04 9.08 9.12 9.20	8.74 8.82 8.86 8.90 8.97	8.50 8.57 8.61 8.65 8.72	7.99 8.06 8.09 8.13 8.20		579 589 594 599 609	-8.0 -8.0 -8.0 -8.0 -8.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes	: DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ton Set" part ni	umbers also serv	ice the single pis	stons.	1
	Application Notes. DOROSHIELD® skill coated piston, the ring s Dome Shape: Flat; 2 reliefs Rings: 1/16 Con Rod Length (in): 5.090 Pin Style: Compression Distance (in): 1.615 Pin Diameter Deck Clearance (in): .002 Pin Weight of Skirt Clearance (in):								5 nat ▲ 12 21				00	
	Dista Oct	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #		

	Piston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filteral	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
306	H120CP 30	10.09	9.62	9.37	9.09	8.51		560	-5.0	R-8902 30	R-9902 30	R-9771 35	Yes	Included
	Singe Piston Part #													
305 306	WH120CP 20 WH120CP 30	10.04 10.09	9.58 9.62	9.33 9.37	9.05 9.09	8.47 8.51		555 560	-5.0 -5.0		 WR-9902 30	 WR-9771 35	Yes Yes	Included Included
	Application Notes service the single	: CNC n pistons.	nachine	d; Lightw	/eight pi	n; DURC	OSHIELD	D® skirt co	ated pisto	on; The ring se	ts listed for the "Pi	iston Set" part nu	imbers als	0

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

The sealed Power standard replacement parts catalog



Ford Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

302 Engines; 1973-76 Block With 8.229 Deck Height (4.000 Bore x 3.000 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.605 Deck Clearance (in): .034 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 152

	Distan Cat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	-	
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Lock Ring
302 305 306 307 311	H273CP H273CP 20 H273CP 30 H273CP 40 H273CP 60	8.86 8.93 8.97 9.00 9.08	8.51 8.58 8.61 8.64 8.71	8.31 8.38 8.41 8.45 8.51	8.09 8.16 8.19 8.22 8.29	7.64 7.70 7.73 7.76 7.82		579 589 594 599 609	-8.0 -8.0 -8.0 -8.0 -8.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #									•				
302 305 306 307 311	WH273CP WH273CP 20 WH273CP 30 WH273CP 40 WH273CP 60	8.86 8.93 8.97 9.00 9.08	8.51 8.58 8.61 8.64 8.71	8.31 8.38 8.41 8.45 8.51	8.09 8.16 8.19 8.22 8.29	7.64 7.70 7.73 7.76 7.82	 	579 589 594 599 609	-8.0 -8.0 -8.0 -8.0 -8.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes	DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed f	or the "Pis	ston Set" part n	umbers also serv	ice the single pis	tons.	

347 Stroker; 302 Engines Using a 3.400" Crank (4.000 Bore x 3.400 Stroke)



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.400 Compression Distance (in): 1.090 Deck Clearance (in): .016 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 110

	Piston Sot	Co	mpress	ion Rati	o by Cy	I Head (00	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Finad	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
342	H139CL	10.82	10.34	10.07	9.77	9.16		393	-5.0				Yes	Included
345	H139CL 20	10.91	10.43	10.16	9.86	9.24		401	-5.0				Yes	Included
347	H139CL 30	10.96	10.47	10.20	9.90	9.28		405	-5.0		R-9968 30	R-9342 35	Yes	Included
349	H139CL 40	11.01	10.52	10.24	9.94	9.32		409	-5.0		R-9968 40	R-9342 45	Yes	Included
352	H139CL 60	11.10	10.61	10.33	10.03	9.40		417	-5.0		R-9968 60	R-9342 65	Yes	Included
	Singe Piston Part #													
347	WH139CL 30	10.96	10.47	10.20	9.90	9.28		405	-5.0			WR-9342 35	Yes	Included
349	WH139CL 40	11.01	10.52	10.24	9.94	9.32		409	-5.0				Yes	Included
	Application Notes	CNC n	nachineo single pi	d; Lightw stons.	eight; Li	ghtweig	ht pin; D	UROSHIE	ELD® skirt	coated piston	; The ring sets list	ed for the "Pistor	n Set" part	

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



SPEED-PRO Hypereutectic Pistons

347 Stroker; 302 Engines Using a 3.400" Crank (4.000 Bore x 3.400 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.400 Compression Distance (in): 1.090 Deck Clearance (in): .016 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 114



	Diaton Sat	Co	mpress	ion Rati	o by Cy	Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	-	
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
342	H146CL	10.82	10.34	10.07	9.77	9.16		410	-5.0				Yes	Included
345	H146CL 20	10.91	10.43	10.16	9.86	9.24		419	-5.0				Yes	Included
347	H146CL 30	10.96	10.47	10.20	9.90	9.28		423	-5.0		R-9968 30	R-9342 35	Yes	Included
349	H146CL 40	11.01	10.52	10.24	9.94	9.32		427	-5.0		R-9968 40	R-9342 45	Yes	Included
	Singe Piston Part #													
342	WH146CL	10.82	10.34	10.07	9.77	9.16		410	-5.0				Yes	Included
347	WH146CL 30	10.96	10.47	10.20	9.90	9.28		423	-5.0			WR-9342 35	Yes	Included

Application Notes: CNC machined; Lightweight; Tapered lightweight pin; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

351 Windsor Based Engines; 1973 & later block with 9.503 deck height (4.000 Bore x 3.500 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.956 Compression Distance (in): 1.772 Deck Clearance (in): .026 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 152



	Piston Sot	Co	mpress	ion Rati	io by Cy	Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Filter	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
351	H336CP			9.08	8.80	8.33		619	-12.0	E-251K	R-9903	R-9343 5	Yes	Included
356	H336CP 20			9.11	8.88	8.40		629	-12.0	E-251K 20	R-9903 20	R-9343 25	Yes	Included
357	H336CP 30			9.14	8.91	8.43		634	-12.0	E-251K 30	R-9903 30	R-9343 35	Yes	Included
359	H336CP 40			9.18	8.95	8.47		639	-12.0	E-251K 40		R-9343 45	Yes	Included
362	H336CP 60			9.26	9.03	8.54		649	-12.0	E-251K 60	R-9903 60	R-9343 65	Yes	Included
	Singe Piston Part #								-				•	
351	WH336CP			9.08	8.80	8.33		619	-12.0	WE-251K			Yes	Included
356	WH336CP 20			9.11	8.88	8.40		629	-12.0				Yes	Included
357	WH336CP 30			9.14	8.91	8.43		634	-12.0	WE-251K 30		WR-9343 35	Yes	Included
359	WH336CP 40			9.18	8.95	8.47		639	-12.0	WE-251K 40			Yes	Included
362	WH336CP 60			9.26	9.03	8.54		649	-12.0	WE-251K 60			Yes	Included
	Application Notes:	DURO	SHIELD	® skirt c	oated pi	ston; Th	e ring se	ets listed for	or the "Pis	ston Set" part ni	umbers also servi	ice the single pis	tons.	

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The sealed Power standard replacement parts catalog



Ford Small Block - cont'd.

SPEED-PRO Hypereutectic Pistons

393; 3.85" Stroker; 351W Engines Using a 3.850" Crank (4.00 Bore x 3.850 Stroke)





Dome Shape: .060 dish; 2 reliefs Con Rod Length (in): 5.956 Compression Distance (in): 1.615 Deck Clearance (in): .007 Skirt Clearance (in): .0015 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 121

	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Filmed	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
393 395	H132CP 30 H132CP 40	11.13 11.18	10.68 10.72	10.43 10.47	10.15 10.19	9.56 9.61		514 519	-15.0 -15.0	R-8902 30 R-8902 40	R-9902 30 R-9902 40	R-9771 35 R-9771 45	Yes Yes	Included Included
	Singe Piston Part #													
393 395	WH132CP 30 WH132CP 40	11.13 11.18	10.68 10.72	10.43 10.47	10.15 10.19	9.56 9.61		514 519	-15.0 -15.0		WR-9902 30 	WR-9771 35 	Yes Yes	Included Included

Application Notes: CNC machined; Lightweight pin; DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

SPEED-PRO POWERFORGED Pistons

289 Engines (4.000 Bore x 2.870 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.155 Compression Distance (in): 1.605 Deck Clearance (in): .011 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143

	Diston Sat	Co	mpress	ion Rati	o by Cy	l Head (00	Piston	Dome	SPEE	D-PRO Ring Set	Part #		
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
289	L-2482F	9.62	9.18	8.94	8.67	8.11		598	-2.7	E-251K	R-9903	R-9343 5	Yes	N/R
291	L-2482F 20	9.70	9.26	9.01	8.74	8.18		608	-2.7	E-251K 20	R-9903 20	R-9343 25	Yes	N/R
293	L-2482F 30	9.75	9.30	9.05	8.78	8.22		613	-2.7	E-251K 30	R-9903 30	R-9343 35	Yes	N/R
294	L-2482F 40	9.79	9.34	9.09	8.82	8.25		618	-2.7	E-251K 40		R-9343 45	Yes	N/R
297	L-2482F 60	9.87	9.42	9.17	8.89	8.32		628	-2.7	E-251K 60	R-9903 60	R-9343 65	Yes	N/R
	Singe Piston Part #													
289	WL-2482F	9.62	9.18	8.94	8.67	8.11		598	-2.7	WE-251K			Yes	N/R
291	WL-2482F 20	9.70	9.26	9.01	8.74	8.18		608	-2.7				Yes	N/R
293	WL-2482F 30	9.75	9.30	9.05	8.78	8.22		613	-2.7	WE-251K 30		WR-9343 35	Yes	N/R
294	WL-2482F 40	9.79	9.34	9.09	8.82	8.25		618	-2.7	WE-251K 40			Yes	N/R
297	WL-2482F 60	9.87	9.42	9.17	8.89	8.32		628	-2.7	WE-251K 60			Yes	N/R
	Application Notes:	1963-6	67 289 "	Hi-Po"; [UROSH	HELD® s	skirt coa	ted piston	; The ring	sets listed for t	he "Piston Set" p	art numbers also	service th	e single

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SPEED-PRO POWERFORGED Pistons

302 Engines; 1968-72; '77-Later Block With 8.206 Deck Height (4.000 Bore x 3.000 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.600 Deck Clearance (in): .016 Skirt Clearance (in): .0025 Rings: 1.5MM, 1.5MM, 3.0MM Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 131



	Diston Sot	Co	mpress	ion Rat	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Filter	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
306	LW-2616NF 30	9.73	9.30	9.07	8.80	8.26		528	-5.5	E-921K 30		R-10701 35	Yes	Included

Application Notes: Lightweight; DUROSHIELD® skirt coated piston

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.605 Deck Clearance (in): .011 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143



	Distan Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Se	t Part #	E. L.	11
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
302 305 306 307 311	L-2482F L-2482F 20 L-2482F 30 L-2482F 40 L-2482F 60	10.01 10.10 10.14 10.19 10.27	9.55 9.63 9.67 9.72 9.80	9.30 9.38 9.42 9.46 9.54	9.02 9.09 9.13 9.17 9.25	8.44 8.51 8.55 8.58 8.66	 	598 608 613 618 628	-2.7 -2.7 -2.7 -2.7 -2.7	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Singe Piston Part #							•		•				•
302 305 306 307 311	WL-2482F WL-2482F 20 WL-2482F 30 WL-2482F 40 WL-2482F 60	10.01 10.10 10.14 10.19 10.27	9.55 9.63 9.67 9.72 9.80	9.30 9.38 9.42 9.46 9.54	9.02 9.09 9.13 9.17 9.25	8.44 8.51 8.55 8.58 8.66	 	598 608 613 618 628	-2.7 -2.7 -2.7 -2.7 -2.7	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R
	Application Notes	: DURO	SHIELD)® skirt c	oated pi	ston; Th	e ring se	ets listed f	or the "Pis	ston Set" part n	umbers also serv	ice the single pis	tons.	



Ford Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

302 Engines; 1968-72; '77-Later Block With 8.206 Deck Height (4.000 Bore x 3.000 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.619 Deck Clearance (in): -.003 Skirt Clearance (in): .0018 Rings: 1.5MM, 1.5MM, 4.0MM Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143

	Diston Sot	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitted	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
302	L-2488F	10.51	9.99	9.72	9.41	8.77		583	-2.0	E-458K	R-10471	R-10470 5	Yes	N/R
305	L-2488F 20	10.60	10.09	9.80	9.49	8.85		593	-2.0	E-458K 20			Yes	N/R
306	L-2488F 30	10.65	10.13	9.85	9.53	8.89		598	-2.0	E-458K 30	R-10471 30	R-10472 35	Yes	N/R
307	L-2488F 40	10.70	10.18	9.89	9.58	8.93		603	-2.0	E-458K 40	R-10471 40	R-10472 45	Yes	N/R
311	L-2488F 60	10.80	10.27	9.98	9.66	9.01		613	-2.0	E-458K 60			Yes	N/R
	Singe Piston Part #													
302	WL-2488F	10.51	9.99	9.72	9.41	8.77		583	-2.0				Yes	N/R
305	WL-2488F 20	10.60	10.09	9.80	9.49	8.85		593	-2.0	WE-458K 20			Yes	N/R
306	WL-2488F 30	10.65	10.13	9.85	9.53	8.89		598	-2.0	WE-458K 30			Yes	N/R
307	WL-2488F 40	10.70	10.18	9.89	9.58	8.93		603	-2.0	WE-458K 40			Yes	N/R

Application Notes: 1985-87; 5.0L HO; DUROSHIELD[®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.619 Deck Clearance (in): -.003 Skirt Clearance (in): .0018 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 121

	Piston Sot	Co	mpressi	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #		
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitt	n Ring
307	LW-2488F 40	10.70	10.18	9.89	9.58	8.93		577	-2.0	R-8902 40	R-9902 40	R-9401 45 (L) Ye	s Included
	Singe Piston Part #													
307	WLW-2488F 40	10.70	10.18	9.89	9.58	8.93		577	-2.0	The ring set numbers als	s listed for the "Pisito so service the single	ton Set" part e pistons.	Ye	s Included
	Application Notes:	Lightw	eight; Dl	JROSH	IELD® s	kirt coate	ed pistor	า						

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).

▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.



SPEED-PRO POWERFORGED Pistons

302 Engines; 1973-76 Block With 8.229 Deck Height (4.000 Bore x 3.000 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.605 Deck Clearance (in): .034 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143



	Diston Sat	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Filter	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
302 305 306 307 311	L-2482F L-2482F 20 L-2482F 30 L-2482F 40 L-2482F 60	9.43 9.50 9.54 9.58 9.66	9.02 9.10 9.13 9.17 9.24	8.80 8.87 8.91 8.94 9.01	8.55 8.62 8.66 8.69 8.76	8.04 8.10 8.13 8.17 8.23		598 608 613 618 628	-2.7 -2.7 -2.7 -2.7 -2.7	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	N/R N/R N/R N/R
	Singe Piston Part #													
302 305 306 307 311	WL-2482F WL-2482F 20 WL-2482F 30 WL-2482F 40 WL-2482F 60	9.43 9.50 9.54 9.58 9.66	9.02 9.10 9.13 9.17 9.24	8.80 8.87 8.91 8.94 9.01	8.55 8.62 8.66 8.69 8.76	8.04 8.10 8.13 8.17 8.23		598 608 613 618 628	-2.7 -2.7 -2.7 -2.7 -2.7	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	N/R N/R N/R N/R N/R

Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.619 Deck Clearance (in): .020 Skirt Clearance (in): .0018 Rings: 1.5MM, 1.5MM, 4.0MM Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143



	Piston Set	Co	mpress	ion Rati	io by Cy	I Head (CC	Piston	Dome	SPEE	D-PRO Ring Set	t Part #	Fitterd	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
302	L-2488F	9.86	9.41	9.17	8.90	8.34		583	-2.0	E-458K	R-10471	R-10470 5	Yes	N/R
305	L-2488F 20	9.94	9.49	9.25	8.97	8.41		593	-2.0	E-458K 20			Yes	N/R
306	L-2488F 30	9.99	9.53	9.29	9.01	8.44		598	-2.0	E-458K 30	R-10471 30	R-10472 35	Yes	N/R
307	L-2488F 40	10.03	9.57	9.32	9.05	8.48		603	-2.0	E-458K 40	R-10471 40	R-10472 45	Yes	N/R
311	L-2488F 60	10.11	9.65	9.40	9.12	8.55		613	-2.0	E-458K 60			Yes	N/R
	Singe Piston Part #													
302	WL-2488F	9.86	9.41	9.17	8.90	8.34		583	-2.0				Yes	N/R
305	WL-2488F 20	9.94	9.49	9.25	8.97	8.41		593	-2.0	WE-458K 20			Yes	N/R
306	WL-2488F 30	9.99	9.53	9.29	9.01	8.44		598	-2.0	WE-458K 30			Yes	N/R
307	WL-2488F 40	10.03	9.57	9.32	9.05	8.48		603	-2.0	WE-458K 40			Yes	N/R
	Application Notes: DUROSHIELD® skirt coated piston: The ring sets listed for the "Piston Set" part numbers also service the single pistons.													



Ford Small Block - cont'd.

SPEED-PRO POWERFORGED Pistons

302 Engines; 1973-76 Block With 8.229 Deck Height (4.000 Bore x 3.000 Stroke)





Dome Shape: Flat; 4 reliefs Con Rod Length (in): 5.090 Compression Distance (in): 1.619 Deck Clearance (in): .020 Skirt Clearance (in): .0018 Rings: 1/16, 1/16, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 121

010	Piston Sat	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	t Part #	Citta d	Lash
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
307	LW-2488F 40	10.03	9.57	9.32	9.05	8.48		577	-2.0	R-8902 40	R-9902 40	R-9401 45 (L)	Yes	Included
	Singe Piston Part #													
307	WLW-2488F 40	10.03	9.57	9.32	9.05	8.48		577	-2.0	The ring se numbers al	ts listed for the "Pis so service the singl	ton Set" part e pistons.	Yes	Included
	Application Notes: Lightweight: DUBOSHIELD® skirt coated piston													

200

Dome Shape: Dish Con Rod Length (in): 5.090 Compression Distance (in): 1.560 Deck Clearance (in): .079 Skirt Clearance (in): .0050 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.927 Pin Weight (grams): 159

		1.1.1												
	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPEE	D-PRO Ring Set	Part #	Filter	Lask
CID	Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
302 305	L-2441F L-2441F 30	7.12 7.20	6.90 6.98	6.78 6.85	6.64 6.72	6.35 6.42		546 561	-21.1 -21.1	E-251K E-251K 30	R-9903 R-9903 30	R-9343 5 R-9343 35	Yes Yes	Included Included
	Singe Piston Part #													
302 305	WL-2441F WL-2441F 30	7.12 7.20	6.90 6.98	6.78 6.85	6.64 6.72	6.35 6.42		546 561	-21.1 -21.1	WE-251K WE-251K 30		 WR-9343 35	Yes Yes	Included Included
	Application Notes:	Chevy	piston;	DUROS	HIELD®	skirt coa	ated pist	on; The rii	ng sets lis	ted for the "Pist	on Set" part num	bers also service	e the single	e pistons.

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▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.



Fo	Ford Small Block - cont'd.													
SPEED-PRO POWERFORGED Pistons														
332	2 Stroker; 30)2 Eng	gines	Usin	g a 3.	250"	Crank	< (4.00) Bore	x 3.250 S	troke)			
Dome Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Con Rod Length (in): 5.400 Pin Style: Press or Float ▲ Compression Distance (in): 1.170 Pin Diameter (in): 0.927 Deck Clearance (in): .011 Pin Weight (grams): 131 Skirt Clearance (in): .0025 Fin Weight (grams): 131														
	Piston Set	Co	mpress	ion Rat	io by Cy	yl Head	CC	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Fitted	Look
CID	Part #	54.5	58.2	60.4	63.0	69.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
332	LW-2639NF 30	10.60	10.12	9.86	9.57	8.96		425	-5.5	E-921K 30		R-10701 35	Yes	Included
	Application Notes	: Lightw	eight; D	UROSH	IELD® s	skirt coat	ed pistor	n						
347	7 Stroker; 30)2 En g	gines	Usin	g a 3.	400"	Crank	< (4.00) Bore	x 3.400 S	troke)			
Dome Shape: Flat; 2 reliefs Rings: 1.5MM, 1.5MM, 3.0MM Con Rod Length (in): 5.400 Pin Style: Press or Float ▲ Compression Distance (in): 1.090 Pin Diameter (in): 0.927 Deck Clearance (in): .016 Pin Weight (grams): 131 Skirt Clearance (in): .0025 Pin Weight (grams): 131														
CID	Piston Set Part #	54 5	58 2	60 4	63.0	69.0		Piston Weight	Dome Volume	SPEI Moly	ED-PRO Ring Set Plasma-Moly	Plasma-Moly	Fitted	Lock
0.47	(grams) (cc						(cc)	Rings	Direct Fit Rings	File Fit Rings		ining .		
347 349	LW-2642F 30 LW-2642F 40	10.89	10.41 10.45	10.14 10.18	9.85 9.89	9.23 9.27		411 415	-5.5 -5.5	E-921K 30 E-921K 30		R-10/01 35 R-10701 35	Yes	Included

Application Notes: Lightweight; DUROSHIELD® skirt coated piston



SPEED-PRO POWERFORGED Pistons

351 Windsor Based Engines; 1973 & later block with 9.503 deck height (4.000 Bore x 3.500 Stroke)



Dome Shape: .110 dish Con Rod Length (in): 5.956 Compression Distance (in): 1.772 Deck Clearance (in): .026 Skirt Clearance (in): .0025 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143

	Piston Set		mpress	sion Rati	io by Cy	I Head	cc	Diston	Dome	SPEE	D-PRO Ring Se	t Part #		
CID	Piston Set Part #	54.5	58.2	60.4	63.0	69.0	76.2	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Fitted Pin	Lock Ring
351 357 359	L-2446F L-2446F 30 L-2446F 40	 	 	9.19 9.30 9.34	8.95 9.06 9.10	8.46 8.56 8.60	 	639 655 660	-13.2 -13.2 -13.2	E-251K E-251K 30 E-251K 40	R-9903 R-9903 30 	R-9343 5 R-9343 35 R-9343 45	Yes Yes Yes	N/R N/R N/R
	Singe Piston Part #													
351 357 359	WL-2446F WL-2446F 30 WL-2446F 40			9.19 9.30 9.34	8.95 9.06 9.10	8.46 8.56 8.60		639 655 660	-13.2 -13.2 -13.2	WE-251K WE-251K 30 WE-251K 40	 	 WR-9343 35 	Yes Yes Yes	N/R N/R N/R
	Application Notes: DUBOSHIELD® skirt coated piston: The ring sets listed for the "Piston Set" part numbers also service the single pistons													

PERFORMANCE ENGINE BEARINGS



Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons
 may require professional installation and/or machining (see Application Notes).





ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
351W En	gines - cont'd.				
Spacer Set					
•	Competition Series	145M SEMI	Bearing Spacer	351 SVO M6303-E351 crank,	0.51.41
	Competition Series	147M SEMI	Bearing Spacer	IN 351 WINdsor block	SEMI
	competition coned		Doaling opacol	351 Windsor block	SEMI
Cam Set					
	O.E. Replacement	1204M	Babbitt	Full round design	Std-10
	Competition Series	2102M	H/D Babbitt	Full round design	Sta Uniy



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
289; 302 E	Engines		
Oil Pump			
	O.E. Replacement High Volume High Pressure	224-41118 224-41128 224-43370	Incl. 224-61118 shaft
Oil Pump Sci	reen		
	O.E. Replacement O.E. Replacement	224-11118 224-14118	'80 & earlier; Exc. Fairmont, Zephyr '81 & up
Pump Shaft			
•	O.E. Replacement	224-61118	
351W Eng	gines		
Oil Pump			
•	O.E. Replacement High Volume	224-41143 224-123R	Requires 224-61143 shaft; High Performance; 25% more volume than stock
	High Volume	224-41143V	Requires 224-61143 shaft: Street Performance
Oil Pump Sci	reen		····
	O.E. Replacement	224-11143	
Pump Shaft			
	O.E. Replacement	224-61143	



PERFORMANCE CAMS

289, 302,	351W Engine	S								
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALV	'E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1158R	KC-1158R	Pro-1500	Stock	1000-4000	194/204	270/280	.424	.448	110	45
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-115R TES: 302 firing	Std.) HT-900R s 7R order; Installed heigi	(Race) hts VS-896R -	1.70, VS-155	55 - 1.82			
CS-1066R	KC-1066R	Pro-2000	Smooth	1000-4000	197/209	280/293	.416	.444	114	60
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-115R TES: 351W firir D30Z-625	Std.) HT-900R s 7R ng order; Installed he 50A	(Race) ights VS-896F	R - 1.70, VS-1	555 - 1.82	2; Ford 30	2 HO; Pa	rt No.

PERFORMANCE CAMS



Ford Small Block - cont'd.

203, 302, 3									L	1
CAM D/N	CAM &	CAM		POWER	DUR/				LOBE	
CS-1084B	KC-1084B	Pro-2000	Smooth	1500-4000	204/214	280/290	448	472	112	51
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-115R TES: 351W firir	(Std.) HT-900R ss 7R ng order; Installed he	(Race)	- 1.70, VS-1	555 - 1.82	2; SVO Pa	Irt No. M-6	6250-A332
CS-1217R		Pro-2000	Smooth	1500-4000	204/214	280/290	.448	.472	112	51
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-115R TES: 302 firing	(Std.) HT-900R ss 7R order; Installed heig	(Race) hts VS-896R -	1.70, VS-155	5 - 1.82			
CS-1020R	KC-1020R	Pro-3000	Good	2000-4500	214/224	290/300	.472	.496	112	71
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-315R TES: 302 firing	(Std.) HT-900R s 7R order; Installed heig	(Race) hts VS-896R -	1.70, VS-155	5 - 1.82;	SVO Part	No. M-62	50-312
CS-1231R		Pro-3000	Good	2000-4500	214/224	290/300	.472	.496	112	61
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-315R TES: 351W firit	(Std.) HT-900R s 7R ng order; Installed he	(Race)	R - 1.70, VS-1	555 - 1.82	2		
CS-108R	KC-108R	Pro-3000	Good	2000-4500	218/218	298/298	.460	.460	113	62
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-315R TES: 302 firing C90Z-625	(Std.) HT-900R PS 7R order; Installed heig 50-C	(Race) hts VS-896R -	1.70, VS-155	i5 - 1.82; ;	289-225 H	IP; Ford F	² art No.
CS-1063R CS-1064R CS-193R CS-1141R	KC-1063R KC-1064R KC-1141R	Pro-3000 Pro-3000 Pro-3000 Pro-3000	Good Fair Rough Fair	2000-4500 2200-5500 2800-6000 3000-6000	218/224 218/230 224/224 224/234	297/304 297/307 304/304 300/310	.458 .458 .466 .496	.464 .483 .466 .520	110 110 110 112	73 81 84 71
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-315R TES: 302 firing	(Std.) HT-900R s 7R order; Installed heig	(Race) hts VS-896R -	1.70, VS-155	5 - 1.82			<u> </u>
CS-1162R		Pro-3000	Rough	3000-6000	224/234	300/310	.496	.520	110	75
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (See note VSR-701 VK-315R TES: 351W firin	(Std.) HT-900R s 7R ng order; Installed he	(Race)	R - 1.70, VS-1	555 - 1.82	2		
CS-760	KC-760	Pro-3000 Pro-3000	Smooth	1500-5000	210/210	279/279	.445	.445	115	49
Hydraulic Roller	וויין	LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-2205 See note VSR-701 VK-115R TES: 1985-93 \$	(Std.) ss 7R 5.0L HO Engs.; 351V	V firing order;	nstalled heigh	1 .495 1ts VS-89	6R - 1.70,	VS-1555	- 1.82

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thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



289, 302, 351W Engines - cont'd.											
	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	E LIFT	LOBE		
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP	
CS-1177R		Pro-3000	Fair	2500-6000	222/232	299/309	.510	.534	112	70	
Hydraulic Roller		LIFTERS VALVE SPRING RETAINER	HT-2205 See note VSR-7017	(Std.) s 7R							
		APPLICATION NOT	ES: 5.0L H.O	Output Engs.; 351W	firing order; Ir	nstalled height	ts VS-896	R - 1.70, ^v	VS-1555 -	1.82	

2	S	PEED
	P	RO

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. F	Replaceme	nt Valve					
289 En	gines						
Exh	aust						
	1.450	V-1710	.3420	4.863	45	21-4N	1963-66
Intal	1.450 (e	V-1/84	.3415	4.873	45	21-4N	1966-68
	1.669	V-1711	.3420	4.863	45	1047	1963-64
	1.774 1.780	V-1785 V-1783	.3420 3420	4.863 4.863	45 45	SIL-1 8645	1966-68 1964-66
302 En	gines					0010	
Exh	aust						
	1.450	V-1784	.3415	4.873	45	21-4N	1968-69
	1.457	V-2429	.3414	4.942	45 45	21-4N 21-4N	1986 1978-85: 1987-92: 1993-94 Mustang Evo. Cohra
Intal	(e	V-1501	.0410	5.070	40	21-411	1970-03, 1907-32, 1993-94 Mustally Exc. Cobra
	1.774	V-1785	.3420	4.863	45	SIL-1	1968-69
	1.777	V-2430	.3420	4.942	45 45	SIL-1	1986 1969 79: w/Rall pivot rockers
	1.782	V-2045	.3420	5.070	45	SIL-1	1978-85; 1987-92; 1993-94 Mustang Exc. Cobra
351W E	Ingines						
Exh	aust						
	1.460	V-1961	.3415	5.070	45	21-4N	1978-91; w/Stamped steel fulcrum style rockers
	1.540	V-2044 V-1893	.3414 .3415	5.070	45 45	21-2N 21-4N	1975-78, WCast from ball pivot rockers
Intal	ke						
	1.782 1.842	V-2045 V-3926	.3420 .3420	5.070 5.070	45 45	SIL-1 SIL-1	1975-87; 1987-89 HO 1969-74
POWE	ERFORGED) Stainless	Steel Va	alve			
289; 30	2; 351W Eng	ines					
Exh	aust						
	1.465	V-8014R	.3415	5.085	45	21-2N	.395 tip length; 1969-94
	1.600	V-8015R V-8016R	.3415 .3415	5.085	45 45	21-2N 21-2N	.395 tip length; 1969-94
Intal	ke						
	1.850 1.941	V-8018R V-8019R	.3420 .3420	5.093 5.091	45 45	21-2N 21-2N	.395 tip length; 1969-94 .395 tip length; 1969-94
Valve	Guide - Ma	anganese E	Bronze				
		VG-7002R	.3435	2.375			Straight; Cut-to-length; .502 O.D.
		VG-7501R	.3415	2.600			Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal
Valve	Stem Seal						
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires valve guide machining
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires
		ST-2018R	.3410				varve guide machining PTFE; .531 guide dia.; Installation requires valve guide machining

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

VALVETRAIN COMPONENTS



Ford Small Block - cont'd.

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
289; 302; 3	351W Engines			
Guide Plates				
	MR-1897	Hardened Stamped Steel	For 5/16 Push Rod	ls
Push Rods				
	RP-3165	Stock Type	5/16 dia.	289; 6.801 length
	RP-3222R	Hardened Chrome Moly	5/16 dia.	289; 6.804 length
	RP-3225R	Hardened Chrome Moly	5/16 dia.	351W; Use w/cast rockers
	RP-3323R	Hardened Chrome Moly	5/16 dia.	351W; Use w/stamped rockers
De altra Arres	RP-3329R	Hardened Chrome Moly	5/10 ula.	302, 1985 W/O.E. foller carri, 1986-94
Rocker Arms	B-1091B	Stamped Steel Boller	1.6 Batio	1978-1/2 to 94: Exc. Cobra
	R-836	H/D Cast w/o Bails	1.6 Ratio	Use .240 tip valves: guide plates: screw-in studs
	R-847	Cast "Rail Type"	1.6 Ratio	1968 to 78-1/2
	R-879	Stamped Steel	1.6 Ratio	1978-1/2 to 94; Exc. Cobra
	RR-7007R	Aluminum Roller	1.6 Ratio	Requires 3/8 H/D screw-in studs; Guide plates
	RR-7008R	Aluminum Roller	1.6 Ratio	Requires 7/16 H/D screw-in studs; Guide plates
	RR-7014R	Aluminum Roller	1.7 Ratio	1970 1/2 10 94, Exc. Obbia
	RR-7026R	Stainless Steel Roller	1.6 Ratio	Requires 7/16 H/D screw-in studs; Guide plates
Rocker Adjus	tment Locks			
	MR-1858PL	3/8 Stud Diameter		For roller rockers
	MR-1000PL MR-1850DI	7/16 Stud Diameter		For soler rockers
	MR-1861PL	7/16 Stud Diameter		For stock style ball pivot rockers
Rocker Studs				
	MR-1862RS	3/8 H/D Screw-In		For stock or roller rockers
	MR-1867RS MR-1910RS	7/16 H/D Screw-In 7/16 H/D Screw-In		For roller rockers; .750 head end depth For roller rockers; .725 head end depth
Complete Tim	ing Sets			
	ČTS-1111R	Economy Double Roller	3 Keyway	1963-84, 1-piece eccentric; When depleted use CTS- 1135NB
	CTS-1119R	Economy Double Roller	3 Keyway	1984 & UP, 2-piece eccentric; When depleted use CTS- 1138NR
	CTS-1135NR	Performance Roller; .250" Double Roller	3 Keyway	1963-84; 289 Exc. HO, 302 HO, 351W Exc. HO; 351W HO to 03/21/1984; Factory 1-piece fuel pump
	CTS-1138NR	Performance Roller; .250" Double Roller	3 Keyway	1972-01; 302 Exc. HO, 302 HO from 03/21/1984, 351W Exc. HO; Factory 2-piece fuel pump eccentric
	CTS-3535X9R	Billet Roller; .250" Double Roller	9 Keyway	1963-84; 289 Exc. HO, 302 HO, 351W Exc. HO, 351W HO to 03/21/1984; Factory 1-piece fuel pump eccentric
	CTS-3635X9R	Competition Roller; Premium .250" Double Roll	er 9 Keyway	1963-84; 289 Exc. HO, 302 HO, 351W Exc. HO, 351W HO to 03/21/1984; Factory 1-piece fuel pump eccentric
Boss 302	Engines			
Push Rods				
	RP-3187	Hardened Stock Type	5/16 dia.	
De altre de la	KP-3224K	Hardened Unrome Moly	5/16 dia.	
HOCKER ARMS	RR-7009R	Aluminum Roller	1.73 Ratio	Requires 7/16 H/D screw-in studs; Guide plates
Rocker Adjus	tment Locks			· · · · · ·
	MR-1859PL	7/16 Stud Diameter		For roller rockers
Dealer Of t	WIR-100 IPL	// 10 Stud Diameter		FOR STOCK STYLE DAIL PIVOT FOCKERS
HOCKER Studs	MB-1867BS	7/16 H/D Screw-In		For roller rockers: .750 head end depth
	MR-1910RS	7/16 H/D Screw-In		For roller rockers; .725 head end depth

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



Ford Cleveland/Modified V8

SPEED-PRO POWERFORGED Piston Sets with Rings								
351C Engines								
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES				
8KL2379F 30	POWERFORGED	L-2379F E-251K	8 1	30-40				
	COMPRESSION RATIO: 8.9:1 DOME DESIGN: Flat; FEATURES: DUR	RATIO: 8.9:1 w/76cc heads Flat; 2 reliefs DUROSHIELD® skirt coated piston						



PERFORMANCE PISTONS

Ford Cleveland/Modified

SPEED-PRO Hypereutectic Pistons

351 Cleveland Engines (4.000 Bore x 3.500 Stroke)

Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.780 Compression Distance (in): 1.645 Deck Clearance (in): .031 Skirt Clearance (in): .0010 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.912 Pin Weight (grams): 152



	Piston Set		mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	Dome SPEED-PRO Ring Set Part #			Fitted	
CID	Part #	58.6	63.0	67.0	76.2	78.4		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
351 355 357 359 362	H555CP H555CP 20 H555CP 30 H555CP 40 H555CP 60	10.51 10.60 10.64 10.69 10.77	9.99 10.07 10.11 10.15 10.24	9.56 9.64 9.68 9.72 9.80	8.72 8.79 8.83 8.86 8.93	 		569 579 584 589 599	-2.0 -2.0 -2.0 -2.0 -2.0	E-251K E-251K 20 E-251K 30 E-251K 40 E-251K 60	R-9903 R-9903 20 R-9903 30 R-9903 60	R-9343 5 R-9343 25 R-9343 35 R-9343 45 R-9343 65	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Singe Piston Part #													
351 355 357 359 362	WH555CP WH555CP 20 WH555CP 30 WH555CP 40 WH555CP 60	10.51 10.60 10.64 10.69 10.77	9.99 10.07 10.11 10.15 10.24	9.56 9.64 9.68 9.72 9.80	8.72 8.79 8.83 8.86 8.93	 		569 579 584 589 599	-2.0 -2.0 -2.0 -2.0 -2.0	WE-251K WE-251K 30 WE-251K 40 WE-251K 60	 	 WR-9343 35 	Yes Yes Yes Yes Yes	Included Included Included Included Included
	Application Notes: DUROSHIELD® skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

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The sealed Power standard replacement parts catalog



Ford Cleveland/Modified - cont'd.

SPEED-PRO POWERFORGED Pistons

351 Cleveland Engines (4.000 Bore x 3.500 Stroke)



Dome Shape: Flat; 2 reliefs Con Rod Length (in): 5.780 Compression Distance (in): 1.647 Deck Clearance (in): .029 Skirt Clearance (in): .0015 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.912 Pin Weight (grams): 143

Piston Set		Compression Ratio by Cyl Head CC						Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Lask
CID	Part #	58.6	63.0	67.0	76.2	78.4		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	LOCK Ring
351	L-2379F	10.63	10.09	9.66	8.79			608	-1.5	E-251K	R-9903	R-9343 5	Yes	N/R
357	L-2379F 30	10.76	10.22	9.78	8.90			623	-1.5	E-251K 30	R-9903 30	R-9343 35	Yes	N/R
359	L-2379F 40	10.80	10.26	9.82	8.94			627	-1.5	E-251K 40		R-9343 45	Yes	N/R
	Singe Piston Part #													
351	WL-2379F	10.63	10.09	9.66	8.79			608	-1.5	WE-251K			Yes	N/R
357	WL-2379F 30	10.76	10.22	9.78	8.90			623	-1.5	WE-251K 30		WR-9343 35	Yes	N/R
359	WL-2379F 40	10.80	10.26	9.82	8.94			627	-1.5	WE-251K 40			Yes	N/R
	Application Notes: DUROSHIELD [®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													

PERFORMANCE ENGINE BEARINGS



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
351C; 351I	M; 400 Engines		
Oil Pump			
	O.E. Replacement High Volume	224-41166 224-41166V	
Oil Pump Scre	een		
	O.E. Replacement	224-11166	

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OIL PUMPS AND ACCESSORIES

Ford Cleveland/Modified - cont'd.

PRODUCT

NOTES

351C; 351M; 400 Engines - cont'd.

O.E. Replacement

FEATURES

Pump Shaft

224-61166

P/N



PERFORMANCE CAMS

351C, 351	M, 400 Engin	es								
	CAM &	CAM	IDLE	POWER	DUR	ATION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY RANGE		.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-650	KC-650	Pro-2000	Smooth	1000-4000	206/221	287/307	.481	.490	115	63
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (VS-1555 VSR-7018 VK-115R TES: 1971-72 3	Std.) HT-900R(8R 351; CJ w/4Bbl. Carb	(Race) .; Ford Part N	o. D2ZZ-6250	I-B			
CS-1161R CS-1085R CS-1010R CS-1021R CS-1021R CS-173R	KC-1010R KC-1021R KC-173R	Pro-1500 Pro-2000 Pro-2000 Pro-3000 Pro-3000	Stock Smooth Smooth Good Fair	1000-4000 1500-4000 1500-4000 2000-4500 2500-5500	194/204 204/214 208/208 214/224 219/219	272/282 282/292 284/284 292/302 308/308	.458 .484 .484 .510 .505	.484 .510 .484 .536 .505	110 112 111 112 112 114	45 51 62 61 62
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NO	HT-900 (VS-1555 VSR-7018 VK-115R TES: Use VK-2	Std.) HT-900R (8R 205R and VSR-7015F	(Race) R w/Multigroov	re valve stems	8	·	·	·



PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. I	Replaceme	ent Valve					
351C E	Engines						
Exh	aust						
	1.655 1.710	V-2030 V-1879	.3414 .3415	5.050 5.050	45 45	21-4N 21-2N	w/2 Bbl. Carb. w/4 Bbl. Carb
Inta	ke						
	2.041	V-2075	.3420	5.231	45	SIL-1	w/2 Bbl. Carb.
351M;	400 Engines						
Exh	aust						
	1.655	V-2030	.3414	5.050	45	21-4N	1975-77
	1.656	V-2095	.3414	5.050	45	21-4N	1978-82
Inta	ke	V 0140	0.400	F 001	45	011 4	1070 00: 1
	2.040	V-2142 V-2075	.3420 .3420	5.231	45 45	SIL-1 SIL-1	1978-82; 1 groove stem 1975-78: 4 groove stem
POW	ERFORGE	D Stainles	s Steel V	alve			
351C;	351M; 400 Er	ngines					
Exh	aust	•					
	1.710	V-8020R	.3415	5.056	45	21-2N	
Inta	ke						
	2.190	V-8021R	.3415	5.246	45	21-2N	
POW	ERFORGE	D Competi	tion Seri	es Stainless Ste	el Valve	- With H	ligh Flow Undercut Stem
Exh	aust						
	1.710	V-2491R	.3415	5.054	45	21-2N	

PERFORMANCE VALVES

For	d Clevel	and/Mo	dified	- cont'd.			
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
Valve	Guide - Ma	nganese E	Bronze				
351C; 3	351M; 400 Eng	gines					
		VG-7002R VG-7501R	.3435 .3415	2.375 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal
Valve	Stem Seal						
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires valve guide machining
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining

VALVETRAIN COMPONENTS







Ford 390; 427; 428

SPEED-PRO POWERFORGED Pistons

390 Engines (4.050 Bore x 3.780 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 6.490 Compression Distance (in): 1.776 Deck Clearance (in): .015 Skirt Clearance (in): .0020 Rings: 5/64, 3/32, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.975 Pin Weight (grams): 151



	Piston Sot	Co	mpress	ion Rati	io by Cy	Head (CC	Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Leek
CID	Part #	67.1	68.0	71.0	74.0			Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
390	L-2291F	9.87	9.78	9.50	9.24			633	-10.0	E-180K			Yes	Included
393	L-2291F 20	9.91	9.83	9.55	9.28			644	-10.0	E-180K 20			Yes	Included
396	L-2291F 30	10.00	9.91	9.62	9.36			650	-10.0	E-180K 30		R-9220 35	Yes	Included
398	L-2291F 40	10.04	9.95	9.66	9.40			656	-10.0	E-180K 40			Yes	Included
402	L-2291F 60	10.12	10.03	9.75	9.48			667	-10.0	E-180K 60			Yes	Included
	Singe Piston Part #													
390	WL-2291F	9.87	9.78	9.50	9.24			633	-10.0				Yes	Included
393	WL-2291F 20	9.91	9.83	9.55	9.28			644	-10.0	The ring of	a listed for the "Dist	on Cotll nort	Yes	Included
396	WL-2291F 30	10.00	9.91	9.62	9.36			650	-10.0	The ring set		ion Set part	Yes	Included
398	WL-2291F 40	10.04	9.95	9.66	9.40			656	-10.0	numbers als	so service the single	e pistons.	Yes	Included
402	WL-2291F 60	10.12	10.03	9.75	9.48			667	-10.0				Yes	Included
	Application Notes: DUROSHIELD® skirt coated piston													

428 Engines (4.130 Bore x 3.980 Stroke)

Dome Shape: .085 dish; 4 reliefs Con Rod Length (in): 6.490 Compression Distance (in): 1.674 Deck Clearance (in): .017 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 0.975 Pin Weight (grams): 151



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	Diston Sot	Co	ompress	sion Rat	io by Cy	Head	CC	Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Lash
CID	Part #	67.1	68.0	71.0	74.0			Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
428	L-2303NF		10.52	10.22	9.94			672	-10.3	E-261K			Yes	Included
433	L-2303NF 30		10.66	10.35	10.07			689	-10.3	E-261K 30			Yes	Included
435	L-2303NF 40		10.70	10.40	10.11			695	-10.3	E-261K 40			Yes	Included
439	L-2303NF 60		10.79	10.48	10.19			706	-10.3	E-261K 60			Yes	Included
	Singe Piston Part #													
428	WL-2303NF		10.52	10.22	9.94			672	-10.3				Yes	Included
433	WL-2303NF 30		10.66	10.35	10.07			689	-10.3	The ring set	ts listed for the "Pist	on Set" part	Yes	Included
435	WL-2303NF 40		10.70	10.40	10.11			695	-10.3	numbers als	so service the single	e pistons.	Yes	Included
439	WL-2303NF 60		10.79	10.48	10.19			706	-10.3		0	1	Yes	Included
	Application Notes: Cobra Jet; DUROSHIELD [®] skirt coated piston													

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PERFORMANCE ENGINE BEARINGS

Eard 200, 407, 400

Fora 3	90; 427; 428 - cont	d.			
ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
390; 427;	428 Engines				
Rod Set					
	O.E. Replacement Competition Series	8-3230CP 8-7170CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-10-20-30-40-50 Std-1-10-20
Main Set					
	O.E. Replacement; 1961-63 O.E. Replacement; 1964-75 Competition Series	4020M 4261M 125M	Overplated Copper-Lead Alloy Overplated Copper-Lead Alloy Super Duty Alloy	3/4 Groove	Std-10 Std-1-10-20-30-40-50-60 Std-10
Cam Set					
	O.E. Replacement; Exc. side oiler Aftermarket Genesis Block	1445M 1268M	Babbitt Babbitt		Std Only Std Only
Pin Bushing					
	O.E. Replacement	2304V			

OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
390; 427;	428 Engines		
Oil Pump			
	O.E. Replacement High Volume High Pressure	224-41173 224-41177 224-43365A	
Oil Pump Sci	reen		
	O.E. Replacement	224-14158	
Pump Shaft			
-	O.E. Replacement	224-61114	

PERFORMANCE CAMS

390; 427; 428 Engines

	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	e lift	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1102R CS-1011R CS-1025R	KC-1011R KC-1025R	Pro-2000 Pro-3000 Pro-3000	Smooth Smooth Good	1500-4000 1500-4000 2000-4500	204/214 214/214 214/224	282/292 292/292 292/302	.484 .510 .510	.510 .510 .536	112 110 112	51 60 61
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-2083 VS-1554 VSR-7003 VK-138R	(Std.) 3R						

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	A	ANGLE	MATERIAL	NOTES
0.E. F	Replaceme	ent Valve						
390; 42	27; 428 Engii	nes						
Exh	aust							
	1.558	V-1853	.3715	5.436	4	15	21-4N	
	1.652	V-1875	.3705	5.426	4	15	21-2N	428CJ & SCJ
Inta	ke							
	2.027	V-1539	.3716	5.446	4	15	SIL-1	
	2.087	V-1876	.3710	5.447	3	30	SIL-1	428CJ & SCJ

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PERFORMANCE VALVES

For	d 390;	427; 428	- cont'd				
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
POW	ERFORGE	ED Stainless	Steel V	alve			
390; 42	27; 428 Engi	ines					
Exh	aust						
	1.556 1.654	V-8023R V-8024R	.3715 .3710	5.439 5.437	45 45	21-2N 21-2N	428CJ & SCJ
Inta	ke						
	2.027 2.090	V-8025R V-8026R	.3715 .3715	5.440 5.446	45 30	21-2N 21-2N	428CJ & SCJ
Valve	Guide - M	Manganese B	Bronze				
		VG-7004R VG-7503R	.3725 .3725	2.375 2.500			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2004 seal
Valve	Stem Sea	al					
		ST-2004	.3710				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2019R	.3720				PTFE; .531 guide dia.; Installation requires valve guide machining



VALVETRAIN COMPONENTS

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
390; 427; 4	28 Engines			
Push Rods				
	RP-3227R RP-3230R	Chrome Moly Chrome Moly	3/8 dia. 3/8 dia.	Use w/Non-adj. rockers Use w/Adj. rockers
Rocker Arms				
	R-814	Stock Type	1.73 Ratio	Non-adj.; Use RP-3227R Push Rods
Rocker Shaft				
	RS-621	Stock Type		Not for racing use
Ford 3	52; 360; 390;	427; 428		
352; 360; 3	390; 427; 428 Engi	nes		
Complete Tim	ing Sets			
•	ČTS-1108R	Performance Roller; .250" Double Roller	3 Keyway	
	CTS-3608X9R	Competition Roller; Premium .250" Double Rolle	er 9 Keyway	



PERFORMANCE PISTONS

Ford 429; 460

SPEED-PRO POWERFORGED Piston Sets with Rings												
429 Engines												
PART NUMBER	PISTON TYPE	COMPONENT	COMPONENT QTY	AVAILABLE SIZES								
8KL2366F 30	POWERFORGED	L-2366F E-296K	8 1	30-40								
	COMPRESSION RATIO: 10.2 DOME DESIGN: Flat; FEATURES: DUR	6:1 w/77cc heads 1 relief IOSHIELD® skirt coated piston										



Ford 429; 460 - cont'd.

SPEED-PRO POW	ERFORGED Piston Set	s w	ith Rings		
460 Engines					
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KL2404F 30	POWERFORGED		L-2404F E-296K	8 1	30-40-60
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	9.02:1 .180 c DURC	I w/77cc heads Jish DSHIELD® skirt coated piston		
PART NUMBER	PISTON TYPE		COMPONENT	COMPONENT QTY	AVAILABLE SIZES
8KL2443NF 30	POWERFORGED		L-2443NF E-296K	8 1	30-60
	COMPRESSION RATIO: DOME DESIGN: FEATURES:	10.55 .400 c DURC	:1 w/92cc heads dome DSHIELD® skirt coated piston		

PERFORMANCE PISTONS



SP	SPEED-PRO Hypereutectic Pistons													
460) Engines (4	.360 I	Bore	x 3.85	0 Str	oke)								
	Dome Shape: Flat; 2 reliefs Rings: 5/64, 5/64, 3/16 Compression Distance (in): 6.605 Pin Style: Press Compression Distance (in): 1.752 Pin Diameter (in): 1.040 Deck Clearance (in): .040 Pin Weight (grams): 229 Skirt Clearance (in): .0015 SPEED-BBO Bing Set Part #													
	Compression Ratio by Cyl Head CC Piston Dome SPEED-PRO Ring Set Part #													
CID Piston Set Part # 72.0 73.5 77.0 92.0 97.0 Weight (grams) (cc) Rings Direct Fit Rings File Fit Rings File Fit Rings														Ring
460	H535CP	10.69	10.54	10.22	9.04	8.71		753	-4.2	E-296K			Yes	N/R
464	H535CP 30	10.77	10.62	10.29	9.11 9.14	8.81		768	-4.2	E-296K 30			Yes	N/R
468	H535CP 40	10.85	10.70	10.37	9.17	8.84		773	-4.2	E-296K 40			Yes	N/R
473	H535CP 60	10.93	10.78	10.45	9.24	8.91		783	-4.2	E-296K 60			Yes	N/R
-	Singe Piston Part #	r								1			1	
460 464 466 468 473	460 WH535CP 10.69 10.54 10.22 9.04 8.71 753 -4.2 464 WH535CP 20 10.77 10.62 10.29 9.11 8.77 763 -4.2 466 WH535CP 30 10.81 10.66 10.33 9.14 8.81 768 -4.2 The ring sets listed for the "Piston Set" part Yes N/R 468 WH535CP 40 10.85 10.70 10.37 9.17 8.84 773 -4.2 numbers also service the single pistons. Yes N/R 473 WH535CP 60 10.93 10.45 9.24 8.91 783 -4.2 Yes N/R													
	Application Notes: 1972-90; Late model heads are 92-97cc; DUROSHIELD® skirt coated piston													

Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons 122 may require professional installation and/or machining (see Application Notes).



Ford 429; 460 - cont'd.

SPEED-PRO POWERFORGED Pistons

429 Engines (4.360 Bore x 3.590 Stroke)

Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.890 Deck Clearance (in): .032 Skirt Clearance (in): .0035 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182



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											00			
	Diston Set	Co	mpress	ion Rati	o by Cy	I Head C	C	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
429 435 437	L-2366F L-2366F 30 L-2366F 40	10.65 10.77 10.81	10.49 10.61 10.65	10.15 10.26 10.30	8.91 9.01 9.05	8.57 8.67 8.70	 	807 822 828	-1.5 -1.5 -1.5	E-296K E-296K 30 E-296K 40	 	 	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
429 435 437	WL-2366F WL-2366F 30 WL-2366F 40	10.65 10.77 10.81	10.49 10.61 10.65	10.15 10.26 10.30	8.91 9.01 9.05	8.57 8.67 8.70	 	807 822 828	-1.5 -1.5 -1.5	The ring set numbers als	ts listed for the "Pist so service the single	on Set" part e pistons.	Yes Yes Yes	Included Included Included

Application Notes: 1972-87; Late model heads are 92-97cc; DUROSHIELD® skirt coated piston

Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.890 Deck Clearance (in): .020 Skirt Clearance (in): .0035 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182



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	Picton Sot	Co	mpress	ion Rati	o by Cy	I Head C	00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Elited	Lask
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
429 435 437	L-2366F L-2366F 30 L-2366F 40	10.97 11.10 11.14	10.80 10.93 10.97	10.43 10.56 10.60	9.13 9.23 9.27	8.77 8.87 8.90	 	807 822 828	-1.5 -1.5 -1.5	E-296K E-296K 30 E-296K 40	 	 	Yes Yes Yes	Included Included Included
	Singe Piston Part #													
429 435 437	WL-2366F WL-2366F 30 WL-2366F 40	10.97 11.10 11.14	10.80 10.93 10.97	10.43 10.56 10.60	9.13 9.23 9.27	8.77 8.87 8.90	 	807 822 828	-1.5 -1.5 -1.5	The ring set numbers als	ts listed for the "Pist so service the single	on Set" part pistons.	Yes Yes Yes	Included Included Included
	Application Notes	: 1970 1	I/2-71; C	UROSH	IELD® s	skirt coat	ed pisto	n						



Ford 429; 460 - cont'd.

SPEED-PRO POWERFORGED Pistons

429 Engines (4.360 Bore x 3.590 Stroke)



Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.890 Deck Clearance (in): .010 Skirt Clearance (in): .0035

Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182

Fitted

Pin

Yes

Yes

Yes

Yes

Yes

Yes

Lock

Ring

Included

Included

Included

Included

Included

Included

	00		0									
	Diston Sot	Co	mpress	ion Rati	io by Cy	l Head C	C	Piston	Dome	SP	EED-PRO Ring Set	Part #
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings
429	L-2366F	11.26	11.08	10.69	9.31	8.94		807	-1.5	E-296K		
435	L-2366F 30	11.39	11.21	10.82	9.43	9.05		822	-1.5	E-296K 30		
437	L-2366F 40	11.44	11.26	10.86	9.46	9.08		828	-1.5	E-296K 40		
	Singe Piston Part #											
429	WL-2366F	11.26	11.08	10.69	9.31	8.94		807	-1.5			0.1

9.05 9.08

9.43 9.46

The ring sets listed for the "Piston Set" part numbers also service the single pistons.

Application Notes: 1968-70 1/2; DUROSHIELD® skirt coated piston

10.82

10.86

11.21 11.26

460 Engines (4.360 Bore x 3.850 Stroke)

11.39 11.44

435 437

WL-2366F 30

WL-2366F 40



Dome Shape: .180 dish Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .036 Skirt Clearance (in): .0020

-1.5 -1.5

Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.040 Pin Weight (grams): 182

CID Piston Set		Co	mpress	ion Rati	io by Cy	I Head C)C	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Filled	Lask
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
460	L-2404F	9.26	9.15	8.91	8.03	7.78		790	-22.0	E-296K			Yes	N/R
466	L-2404F 30	9.37	9.26	9.02	8.12	7.86		809	-22.0	E-296K 30			Yes	N/R
468	L-2404F 40	9.40	9.29	9.05	8.15	7.89		815	-22.0	E-296K 40			Yes	N/R
473	L-2404F 60	9.47	9.36	9.12	8.21	7.95		827	-22.0	E-296K 60			Yes	N/R
	Singe Piston Part #													
460	WL-2404F	9.26	9.15	8.91	8.03	7.78		790	-22.0				Yes	N/R
466	WL-2404F 30	9.37	9.26	9.02	8.12	7.86		809	-22.0	The ring set	s listed for the "Pist	on Set" part	Yes	N/R
468	WL-2404F 40	9.40	9.29	9.05	8.15	7.89		815	-22.0	numbers als	so service the sinale	pistons.	Yes	N/R
473	WL-2404F 60	9.47	9.36	9.12	8.21	7.95		827	-22.0		J		Yes	N/R
Application Notes: 1972-90; Late model heads are 92-97cc; D						; DURC)SHIELD®	skirt coa	ted piston					

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Speed-Pro pistons are sold in weight matched engine sets. Due to ongoing improvements, some images may not be representative. Before selecting or installing parts, thoroughly read the Engine Builders Guidelines and Product Selection Guidelines sections of the Speed-Pro Performance Engine Parts paper or on-line catalog. Some pistons may require professional installation and/or machining (see Application Notes).



Ford 429; 460 - cont'd.

SPEED-PRO POWERFORGED Pistons

460 Engines (4.360 Bore x 3.850 Stroke)

Dome Shape: .180 dish Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .024 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.040 Pin Weight (grams): 182



CID	Piston Set	Co	mpress	ion Rati	io by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lash
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pitted	Ring
460	L-2404F	9.48	9.37	9.12	8.19	7.92		790	-22.0	E-296K			Yes	N/R
466	L-2404F 30	9.59	9.48	9.22	8.28	8.01		809	-22.0	E-296K 30			Yes	N/R
468	L-2404F 40	9.63	9.51	9.26	8.31	8.04		815	-22.0	E-296K 40			Yes	N/R
473	L-2404F 60	9.70	9.59	9.33	8.38	8.11		827	-22.0	E-296K 60			Yes	N/R
5	Singe Piston Part #													
460	WL-2404F	9.48	9.37	9.12	8.19	7.92		790	-22.0				Yes	N/R
466	WL-2404F 30	9.59	9.48	9.22	8.28	8.01		809	-22.0	The ring set	ts listed for the "Pist	on Set" part	Yes	N/R
468	WL-2404F 40	9.63	9.51	9.26	8.31	8.04		815	-22.0	numbers als	so service the single	pistons.	Yes	N/R
473	WL-2404F 60	9.70	9.59	9.33	8.38	8.11		827	-22.0		6	•	Yes	N/R

Application Notes: 1970 1/2-71; DUROSHIELD® skirt coated piston

Dome Shape: .180 dish Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .014 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 1.040 Pin Weight (grams): 182



	Diston Sat	Co	mpress	ion Rat	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #		
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
460	L-2404F	9.67	9.55	9.29	8.32	8.05		790	-22.0	E-296K			Yes	N/R
466	L-2404F 30	9.40	8.42	8.14		809	-22.0	E-296K 30			Yes	N/R		
468	L-2404F 40	9.83	9.71	9.44	8.45	8.18		815	-22.0	E-296K 40		Yes	N/R	
473	L-2404F 60	9.90	9.78	9.51	8.52	8.24		827	-22.0	E-296K 60			Yes	N/R
	Singe Piston Part #													
460	WL-2404F	9.67	9.55	9.29	8.32	8.05		790	-22.0				Yes	N/R
466	WL-2404F 30	9.79	9.67	9.40	8.42	8.14		809	-22.0	The ring set	ts listed for the "Pist	on Set" part	Yes	N/R
468	468 WL-2404F 40 9.83 9.71 9.44 8.45 8.18							815	-22.0	numbers al	so service the single	nistons	Yes	N/R
473	WL-2404F 60	9.90	9.78	9.51	8.52	8.24		827	-22.0	numbere us	so service the single	piotono.	Yes	N/R
Application Notes: 1968-70 1/2; DUROSHIELD [®] skirt coated piston														



Ford 429; 460 - cont'd.

SPEED-PRO POWERFORGED Pistons

460 Engines (4.360 Bore x 3.850 Stroke)



Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .036 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182

CID	Picton Sot	Co	mpress	ion Rati	o by Cy	I Head (00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Look
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
466 473	LW-2602NF 30 LW-2602NF 60	10.94 11.07	10.79 10.91	10.45 10.57	9.23 9.33	8.89 8.99		678 695	-3.9 -3.9	E-296K 30 E-296K 60			Yes Yes	Included Included
	Application Notes: Lightweight; 1972-90; DUROSHIELD® skirt (skirt coa	ted pistor	1					



Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .024 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182

CID	Diston Sot	Co	mpress	ion Rati	o by Cy	I Head O	00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Eiste d	Lash
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
466 473	LW-2602NF 30 LW-2602NF 60	11.16 11.29	11.01 11.13	10.66 10.78	9.41 9.52	9.07 9.17		678 695	-3.9 -3.9	E-296K 30 E-296K 60			Yes Yes	Included Included
	Application Notes: Lightweight; 1970 1/2-71; DUROSHIELD [®] skirt coated piston													



Dome Shape: Flat; 1 relief Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .014 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182

	Diston Sot	Co	mpress	ion Rati	o by Cy	I Head C	C)	Piston	Dome	SPEI	ED-PRO Ring Set	Part #	Filled	Lask
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
466 473	LW-2602NF 30 LW-2602NF 60	11.49 11.63	11.34 11.46	10.98 11.10	9.70 9.80	9.34 9.44		678 695	-3.9 -3.9	E-296K 30 E-296K 60			Yes Yes	Included Included
	Application Notes: Lightweight; 1968-70 1/2; DUROSHIELD [®] skirt coated piston													

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Ford 429; 460 - cont'd.

SPEED-PRO POWERFORGED Pistons

460 Engines (4.360 Bore x 3.850 Stroke)

Dome Shape: .350 dome Con Rod Length (in): 6.605 Compression Distance (in): 1.756 Deck Clearance (in): .036 Skirt Clearance (in): .0040 Rings: 5/64, 5/64, 3/16 Pin Style: Press or Float ▲ Pin Diameter (in): 1.040 Pin Weight (grams): 182



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												1000011 0100		
	Diston Sot	Co	mpress	sion Rat	io by Cy	I Head O	00	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lask
CID	Part #	72.0	73.5	77.0	92.0	97.0		Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
466 473	L-2443NF 30 L-2443NF 60			12.49 12.63	10.73 10.85	10.26 10.38		741 759	14.0 14.0	E-296K 30 E-296K 60			Yes Yes	Included Included
	Singe Piston Part #													
466 473	466 WL-2443NF 30 12.49 10.73 10.26 473 WL-2443NF 60 12.63 10.85 10.38								14.0 14.0	The ring set numbers als	ts listed for the "Pist so service the single	on Set" part pistons.	Yes Yes	Included Included
	Application Notes: 1972-90; Dome machining may be reg'd w/heads 77cc or less; DUROSHIELD® skirt coated piston													



PERFORMANCE ENGINE BEARINGS

ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
429; 460 I	Engines				
Rod Set					
	O.E. Replacement Competition Series	8-3360CPA 8-7185CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-1-10-20-30-40 Std-10-20
Main Set					
	O.E. Replacement Competition Series	4907M 134M	Overplated Copper-Lead Alloy Super Duty Alloy	3/4 Groove	Std-1-10-20-30-40 Std-1X-10-20
Cam Set					
	O.E. Replacement Competition Series	1414M 2104M	Babbitt H/D Babbitt	Full round design Full round design	Std Only Std Only



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
429; 460 E	Engines		
Oil Pump			
	O.E. Replacement High Volume	224-41139 224-41139V	Exc. CJ, SCJ; Use w/Press-in screen Use w/Bolt-on screen
Oil Pump Sci	reen		
	O.E. Replacement O.E. Replacement O.E. Replacement	224-14230 224-14160 224-12139	"Long" style bolt on CJ, SCJ; Bolt-on Exc. CJ, SCJ; Press-in
Pump Shaft			
-	O.E. Replacement	224-61127	

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

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PERFORMANCE CAMS

Ford 429; 460 - cont'd.

429; 460 Eı	ngines									
	CAM &	CAM	IDLE	POWER	DURA	TION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1155R CS-1086R CS-1159R CS-196R	KC-1155R KC-1086R KC-1159R KC-196R	Pro-1500 Pro-2000 Pro-3000 Pro-3000	Stock Smooth Good Good	1000-3500 1500-4000 1500-4500 2000-4500	194/204 204/214 214/224 218/218	272/282 282/292 292/302 299/299	.458 .484 .510 .495	.484 .510 .536 .495	110 112 112 110	45 51 61 79
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-900 (S VS-1605R VSR-7017 VK-115R	6td.) HT-900R	(Race)					

PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. F	Replaceme	nt Valve					
429 En	gines						
Exh	aust						
	1.653	V-1984	.3419	4.983	45	21-4N	1973
	1.654	V-1849	.3420	5.083	45	21-2N	1968-72; Exc. Police, Cobra Jet
Inte	1.720 ko	V-1933	.3420	000.0	45	SIL-740	1970-71, Police, Cobra Jel
inta	2 083	V-1850	3420	5 288	45	SII -1	1968-72: Exc. Police. Cobra Jet
	2.083	V-3929	.3419	5.198	45	SIL-1	1973
460 En	igines						
Exh	aust						
	1.653	V-1984	.3419	4.983	45	21-4N	1973-86; Exc. Police
	1.654	V-1849	.3420	5.083	45	21-2N	1968-72 1987 94: Stallita faca
Inta	1.004	V-43/1A	.3419	4.903	40	X750	1907-94, Stellite lace
inta	1.977	V-2452	.3419	5.180	45	SIL-1	1987-92
	2.083	V-1850	.3420	5.288	45	SIL-1	1968-72
	2.083	V-3929	.3419	5.198	45	SIL-1	1973-86; Exc. 1973-74 Police
POW	ERFORGE	O Stainless	Steel V	alve			
429; 46	60 Engines						
Exh	aust						
	1.650	V-8034R	.3414	5.074	45	21-2N	
	1.752	V-8027R	.3415	5.079	45	21-2N	
Inta	ke	V 0005D	0445	F 000	45	01.01	
	2.080	V-8035R V-8028R	.3415 .3415	5.296	45 45	21-2N 21-2N	
Valve	Guide - Ma	anganese l	Bronze				
		VG-7002R	.3435	2.375			Straight: Cut-to-length: .502 O.D.
		VG-7501R	.3415	2.600			Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal
Valve	Stem Seal						
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires
		ST-2018R	.3410				valve guide machining PTFE; .531 guide dia.; Installation requires valve guide machining

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VALVETRAIN COMPONENTS

Ford 429; 460 - cont'd.

ENGINE	P/N	MATERIAL	SPECIFICATIONS	NOTES
429; 460 E	ngines			
Push Rods				
i uomineuo	RP-3185	Stock Type	5/16 dia.	429; 460 From 4/01/69-1971; Exc. CJ, SCJ, Police
	RP-3160 RP-3164	Hardened Stock Type Hardened Stock Type	5/16 dia. 5/16 dia.	1972-93; 1970-71 CJ, SCJ, Police 429; Before 4/01/69
	RP-3251R	Hardened Chrome Moly	5/16 dia.	1972-93; 1970-71 CJ, SCJ, Police
Rocker Arms				
	R-855 R-1033	Stock Type Stock Type	1.73 Ratio 1.73 Ratio	Non-adj.; Fulcrum type Adj., Ball pivot type
	RR-7009R RR-7015R	Aluminum Roller Aluminum Roller	1.73 Ratio 1.73 Ratio	Requires 7/16 H/D screw-in studs; Guide plates Fits '72-93, Incl. mounting hardware
Rocker Adjust	tment Locks			
	MR-1859PL MR-1861PL	7/16 Stud Diameter 7/16 Stud Diameter		For roller rockers For stock style ball pivot rockers
Rocker Studs				
	MR-1867RS	7/16 H/D Screw-In		CJ, SCJ; For roller rockers; .750 head end depth
Complete Tim	ing Sets			
	ČTS-1122R	Performance Roller; .250" Double Roller	3 Keyway	1968-71 429, 460; Factory timing TDC
	CTS-3522X9R	Billet Roller; .250" Double Roller	9 Keyway	1968-71 429, 460; Factory timing TDC
	CTS-3622X9R	Competition Roller; Premium .250" Double Rolle	er 9 Keyway	1968-71 429, 460; Factory timing TDC



PERFORMANCE PISTONS

Oldsmobile V8

SPEED-PRO POWERFORGED Pistons

350 Engines (4.057 Bore x 3.385 Stroke)

Dome Shape: .076 x 2.44" dia. Dish Con Rod Length (in): 6.000 Compression Distance (in): 1.612 Deck Clearance (in): .025 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.980 Pin Weight (grams): 194



	Piston Sot	Co	mpress	ion Rati	io by Cy	I Head	CC	Piston	Dome	SPE	ED-PRO Ring Set	Part #	Fitted	Lock
CID	Part #	62.5	64.0	70.0	72.0	75.0	80.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
355	L-2321F 30	9.83	9.67	9.09	8.91	8.66	8.28	621	-5.8	E-297K 30			Yes	N/R
	Singe Piston Part #													
355	WL-2321F 30	9.83	9.67	9.09	8.91	8.66	8.28	621	-5.8				Yes	N/R
	Application Notes: DUROSHIELD [®] skirt coated piston; The ring sets listed for the "Piston Set" part numbers also service the single pistons.													



Oldsmobile V8 - cont'd.

SPEED-PRO POWERFORGED Pistons

350 Engines (4.057 Bore x 3.385 Stroke)





Dome Shape: Flat Con Rod Length (in): 6.000 Compression Distance (in): 1.612 Deck Clearance (in): .025 Skirt Clearance (in): .0025

Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.980 Pin Weight (grams): 194

	Piston Sot	Co	mpress	ion Rat	io by Cy	Head	CC	Piston	Dome	SPEI	Part #	Fitted	Look	
CID	Part #	62.5	64.0	70.0	72.0	75.0	80.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
350 355	L-2320F L-2320F 30	10.36 10.49	10.18 10.31	9.53 9.64	9.33 9.44	9.05 9.16	8.62 8.73	641 655	0.0 0.0	E-297K E-297K 30		Yes Yes	N/R N/R	
Singe Piston Part #														
350 WL-2320F 10.36 10.18 9.53 9.33 9.05 8.62 641 0.0 The ring sets listed for the "Piston Set" part numbers also service the single pistons.										Yes Yes	N/R N/R			
Application Notes: 1968-70 w/Outside Air Induction; W-31; DUROSHIELD® skirt coated piston														

455 Engines (4.125 Bore x 4.250 Stroke)



Dome Shape: .142 dish Con Rod Length (in): 6.735 Compression Distance (in): 1.735 Deck Clearance (in): .030 Skirt Clearance (in): .0030

Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.980 Pin Weight (grams): 187

CID	Piston Set Part #	Compression Ratio by Cyl Head CC						Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Lask
		62.5	64.0	70.0	72.0	75.0	80.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
455	L-2323F	10.70	10.55	10.00	9.83	9.58	9.21	674	-18.0	E-243K		R-5879 5	Yes	N/R
461	L-2323F 30	10.83	10.68	10.12	9.95	9.70	9.32	690	-18.0	E-243K 30	R-10374 30	R-5879 35	Yes	N/R
463	L-2323F 40	10.88	10.73	10.16	9.99	9.74	9.36	696	-18.0	E-243K 40			Yes	N/R
468	L-2323F 60	10.97	10.81	10.25	10.07	9.82	9.43	707	-18.0	E-243K 60	R-10374 60	R-5879 65	Yes	N/R
Singe Piston Part #														
455	WL-2323F	10.70	10.55	10.00	9.83	9.58	9.21	674	-18.0	Yes N/R The ring sets listed for the "Piston Set" part Yes N/R numbers also service the single pistons. Yes N/R Yes N/R Yes N/R			N/R	
461	WL-2323F 30	10.83	10.68	10.12	9.95	9.70	9.32	690	-18.0				N/R	
463	WL-2323F 40	10.88	10.73	10.16	9.99	9.74	9.36	696	-18.0				N/R	
468	WL-2323F 60	10.97	10.81	10.25	10.07	9.82	9.43	707	-18.0				N/R	
	Application Notes: DUROSHIELD [®] skirt coated piston													

PERFORMANCE ENGINE BEARINGS



ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES				
350; 403 Engines									
Rod Set									
	O.E. Replacement	8-3045A	A-Series aluminum bearings	Std-10-20-30-40					
Main Set									
	O.E. Replacement	4281M	Overplated Copper-Lead All	Std-1-10-20-30					
Cam Set									
	O.E. Replacement; 1968-77 O.E. Replacement; 1978-80	1234M 1466M	Babbitt Babbitt	Full round design	Std Only Std Only				

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PERFORMANCE ENGINE BEARINGS

Oldsmobile V8 - cont'd.

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ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES			
400; 455 Engines								
Rod Set								
	Competition Series	8-7040CH	Super Duty Alloy		Std-10			
Main Set								
	Competition Series	108M	Super Duty Alloy	1/2 Groove	Std-10-20			
Cam Set								
	O.E. Replacement	1234M	Babbitt	Full round design	Std Only			



OIL PUMPS AND ACCESSORIES

PRODUCT	FEATURES	P/N	NOTES
350; 389;	400; 455 Engines		
Oil Pump			
	O.E. Replacement High Volume	224-41203 224-41203V	Use 224-11203V screen
Oil Pump So	creen		
	O.E. Replacement O.E. Replacement O.E. Replacement	224-11203 224-11203V 224-12203	Exc. Toronado Screen for 224-41203V Toronado
Oil Pump Sh	naft		
	O.E. Replacement	224-61203	



PERFORMANCE CAMS

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350; 455	Engines									
	CAM &	CAM	IDLE	POWER	DUR	TION	VALV	E LIFT	LOBE	
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP
CS-1024R CS-1023R	KC-1024R KC-1023R	Pro-2000 Pro-3000	Smooth Good	1500-4000 2000-4500	204/214 214/224	280/290 290/300	.448 .472	.472 .496	112 112	51 61
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-951 (VS-896R VSR-701 [°] VK-115R	Std.) HT-951R 7R	(Race)					
CS-198R		Pro-3000	Fair	2500-5500	224/234	300/310	.496	.520	112	71
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-951 (VS-896R VSR-701 [°] VK-315R	Std.) HT-951R 7R	(Race)					
CS-176R		Pro-5000	Fair	3000-6200	232/232	322/322	.474	.474	113	82
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS APPLICATION NOTE	HT-951 (VS-896R VSR-701 VK-315R S: W-30; GN	Std.) HT-951R 7R // Part No. 402194	(Race)					

PERFORMANCE VALVES



OI	Oldsmobile V8 - cont'd.											
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES					
O.E.	. Replaceme	nt Valve										
350 E	Engines											
E	khaust											
	1.502 1.562 1.622 1.622 1.624	V-2061 V-1770 V-1942 V-2028 V-1772	.3423 .3422 .3423 .3423 .3423 .3422	4.688 4.728 4.708 4.675 4.695	30 44 30 30 45	21-4N 21-2N 21-2N 21-2N 21-4N	1977-80 1968-71; w/o Outside Air Induction 1972 1973-76 1968-71; w/Outside Air Induction					
In	take											
	1.875 1.876 1.992	V-1995 V-1773 V-1775	.3428 .3425 .3430	4.667 4.738 4.709	44 45 44	1547 EN-52 SIL-1	1973-80 1968-71; w/o Outside Air Induction; 1972 1968-71; w/Outside Air Induction					
400 E	Engines											
E	thaust	V-1772	.3422	4.695	45	21-4N	1965-69					
In	take											
	1.992 2.063	V-1775 V-1776	.3430 .3427	4.709 4.718	44 30	SIL-1 1047	1966-69 1966-69					
455 E	Engines											
E	khaust											
	1.622 1.624 1.684	V-2028 V-1772 V-1943	.3423 .3422 .3423	4.675 4.695 4.675	30 45 30	21-2N 21-4N 21-2N	1973 w/TH400 trans; '74 w/o Outside Air Induction 1968-71; '72-74 w/M/T or Outside Air Induction Exc. M/T; w/Outside Air Induction					
In	1.992 2.063	V-1775 V-1776	.3430 .3427	4.709 4.718	44 30	SIL-1 1047	1968-74 w/o Outside Air Induction or Hi-Perf.; 1975-76 all 1968-74; w/Outside Air Induction or Hi-Perf					
Valv	ve Guide - Ma	anganese	Bronze									
350;	400; 455 Engin	es										
	_	VG-7002R VG-7501R	.3435 .3415	2.375 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal					
Valv	ve Stem Seal											
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires					
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires					
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining					

VALVETRAIN COMPONENTS



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may require professional installation and/or machining (see Application Notes).



Pontiac V8

SPEED-PRO POWERFORGED Pistons

400 Engines (4.120 Bore x 3.750 Stroke)

Dome Shape: Flat; 4 reliefs Con Rod Length (in): 6.625 Compression Distance (in): 1.714 Deck Clearance (in): .021 Skirt Clearance (in): .0020 Rings: 5/64, 5/64, 3/16 Pin Style: Press Pin Diameter (in): 0.980 Pin Weight (grams): 194



	Diston Sat	Co	mpress	ion Rati	io by Cy	/I Head	CC	Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	
CID	Part #	69.0	72.0	87.0	96.0	111.0	114.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	LOCK Ring
400	L-2262F	10.11	9.82	8.59	8.01	7.21	7.07	589	-6.7	E-299K			Yes	N/R
404	L-2262F 20	10.22	9.92	8.68	8.09	7.28	7.14	599	-6.7	E-299K 20			Yes	N/R
406	L-2262F 30	10.24	9.94	8.70	8.11	7.30	7.16	604	-6.7	E-299K 30		R-9228 35	Yes	N/R
408	L-2262F 40	10.28	9.98	8.74	8.14	7.33	7.19	609	-6.7	E-299K 40			Yes	N/R
412	L-2262F 60	10.37	10.07	8.81	8.21	7.39	7.25	620	-6.7	E-299K 60			Yes	N/R
	Singe Piston Part #													
400	WL-2262F	10.11	9.82	8.59	8.01	7.21	7.07	589	-6.7				Yes	N/R
404	WL-2262F 20	10.22	9.92	8.68	8.09	7.28	7.14	599	-6.7	The ring oct	a liated for the "Diat	on Cot" nort	Yes	N/R
406	WL-2262F 30	10.24	9.94	8.70	8.11	7.30	7.16	604	-6.7	The fing set		ion Set part	Yes	N/R
408	WL-2262F 40	10.28	9.98	8.74	8.14	7.33	7.19	609	-6.7	numbers also service the single pistons. Yes				N/R
412	WL-2262F 60	10.37	10.07	8.81	8.21	7.39	7.25	620	-6.7				Yes	N/R
	Application Notes: 1971-79 w/4 Bbl. Carb.; 1967-70 w/2 Bbl. Carb.; DUROSHIELD® skirt coated piston													

Dome Shape: .225 dome Con Rod Length (in): 6.625 Compression Distance (in): 1.715 Deck Clearance (in): .020

Skirt Clearance (in): .0050

Rings: 1/16, 1/16, 1/8 Pin Style: Press or Float ▲ Pin Diameter (in): 0.980 Pin Weight (grams): 194



	Piston Set Part #	Co	Compression Ratio by Cyl Head CC				Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Look	
CID		69.0	72.0	87.0	96.0	111.0	114.0	Weight (grams)	Weight Volume grams) (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
406 412	L-2279NF 30 L-2279NF 60	12.39 12.37	11.94 11.93	10.14 10.15	9.31 9.34	8.23 8.26	8.05 8.08	589 605	10.0 8.9			R-9255 35 (L)	Yes Yes	Included Included
	Application Notes: 60 O/S has .190 dome; DUROSHIELD® skirt coated piston													

Unless otherwise indicated, parts listed in this catalog are not intended for use in emission controlled vehicles that must comply with federal, state, and/or local emission regulations. Replacement parts for emission certified O.E. engine combinations are listed in the Sealed Power standard replacement parts catalog.

▲ "Float or Press" pins are floated and include lock rings. Floated pins can also be pressed.

(L) Low Tension Plasma-Moly File Fit Rings.

PERFORMANCE PISTONS



Pontiac V8 - cont'd.

SPEED-PRO POWERFORGED Pistons

455 Engines (4.151 Bore x 4.210 Stroke)



Dome Shape: Flat; 4 reliefs Con Rod Length (in): 6.625 Compression Distance (in): 1.497 Deck Clearance (in): .008 Skirt Clearance (in): .0030 Rings: 5/64, 1/16, 3/16 Pin Style: Press Pin Diameter (in): 0.980 Pin Weight (grams): 194

	Piston Sot	Co	Compression Ratio by Cyl Head CC				Piston	Dome	SPEED-PRO Ring Set Part #			Fitted	Lask	
CID	Part #	69.0	72.0	87.0	96.0	111.0	114.0	Weight (grams)	Volume (cc)	Moly Rings	Plasma-Moly Direct Fit Rings	Plasma-Moly File Fit Rings	Pin	Ring
455	L-2359NF	11.72	11.37	9.89	9.18	8.23	8.07	580	-6.7	E-300K			Yes	N/R
463	L-2359NF 30	11.87	11.51	10.01	9.30	8.34	8.17	595	-6.7	E-300K 30			Yes	N/R
465	L-2359NF 40	11.93	11.56	10.05	9.34	8.37	8.20	600	-6.7	E-300K 40			Yes	N/R
469	L-2359NF 60	12.03	11.66	10.14	9.42	8.44	8.27	609	-6.7	E-300K 60			Yes	N/R
				<u> </u>										

Application Notes: 1970-76 Exc. Super Duty; DUROSHIELD® skirt coated piston

PERFORMANCE ENGINE BEARINGS



ENGINE	APPLICATION	P/N	MATERIAL	FEATURES	SIZES
350; 389;	400 Engines				
Rod Set					
	O.E. Replacement Competition Series	8-1555CPA 8-7050CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-10-20-30-40 Std-10-20
Main Set					
	O.E. Replacement Competition Series	4040M 113M	Overplated Copper-Lead Alloy Super Duty Alloy	1/2 Groove 3/4 Groove	Std-1-10-20-30 Std-10-20
Cam Set					
	O.E. Replacement	1220M	Babbitt		Std Only
421; 428;	455 Engines				
Rod Set					
	O.E. Replacement Competition Series	8-1555CPA 8-7050CH	Overplated Copper-Lead Alloy Super Duty Alloy		Std-10-20-30-40 Std-10-20
Main Set					
	O.E. Replacement; 1961-76 Competition Series	4221M 151M	Overplated Copper-Lead Alloy Super Duty Alloy	1/2 Groove 3/4 Groove	Std-10-20-30 Std-10
Cam Set					
	O.E. Replacement; 1961-62 O.E. Replacement; 1963-76	1146M 1220M	Babbitt Babbitt		Std Only Std Only

OIL PUMPS AND ACCESSORIES

0	S	DF	ED
57	D		
			4

PRODUCT	FEATURES	P/N	NOTES						
350; 389; 4	350; 389; 400; 455 Engines								
Oil Pump	High Pressure	224-43364S	Incl. screen						
Pump Shaft	O.E. Replacement	224-61236							

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may require professional installation and/or machining (see Application Notes).



PERFORMANCE CAMS

Pontiac V8 - cont'd.

350, 400, 4	350, 400, 455 Engines											
	CAM &	CAM	IDLE	POWER	DURATION		VALVE LIFT		LOBE			
CAM P/N	LIFTER KIT	SERIES	QUALITY	RANGE	.050 LIFT	.006 LIFT	INT.	EXH.	C/L	OVERLAP		
CS-1038R CS-1022R	KC-1038R KC-1022R	Pro-2000 Pro-3000	Smooth Good	1500-4000 2000-4500	204/214 214/224	278/288 288/298	.420 .443	.443 .465	110 112	55 61		
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-951 (VS-890R VSR-7018 VK-115R	Std.) HT-951R (BR	(Race)							
CS-1175R	KC-1175R	Pro-3000	Fair	2500-5500	224/234	298/308	.465	.488	112	71		
Hydraulic		LIFTERS VALVE SPRING RETAINER LOCKS	HT-951 (VS-1606 VSR-7018 VK-115R	Std.) HT-951R (BR	(Race)							



PERFORMANCE VALVES

ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E. I	Replaceme	ent Valve					
350 En	gines						
Exh	aust						
	1.660	V-1823	.3410	5.082	45	21-2N	1968; w/4 Bbl. Carb.; w/M/T
	1.660	V-1832	.3405	4.984	44	21-2N	1968-70 w/2 Bbl. Carb.; 1971-72
	1.661	V-1963	.3410	4.961	44	21-2N	1973 Exc. WH, YH, YJ, YW; 1974-77 Exc. 1975 Y, D
	1.772	V-1902	.3411	4.976	45	21-4N	1973; WH, YH, YJ, YW
Inta	ke						
	1.960	V-1824	.3415	5.089	29	1047	1968; w/M/T
	1.960	V-1964	.3415	4.980	44	1047	1971-74
	2.110	V-1903	.3420	4.982	29	1047	1975-77
389 En	igines						
Exh	aust						
	1.640	V-1813	.3410	4.876	45	21-4N	1965-66; 10.5:1 C.R.
Inta	ke						
	1.882	V-1532	.3409	4.854	30	EN-52	1961-62 Exc. 425A: 1963-64 10.5:1 C.R.
	1.919	V-1743	.3407	4.894	30	1047	1965-66; 10.5:1 C.R.
400 En	gines						
Exh	aust						
	1.640	V-1813	.3410	4.876	45	21-4N	1967: 10.5:1 C.R.: Exc. Firebird
	1.660	V-1823	.3410	5.082	45	21-2N	1968-69 10.5:1 C.R. w/2 Bbl. Carb.; 1970 w/4 Bbl. Carb. WE,
							YD, XY, XZ
	1.660	V-1832	.3405	4.984	44	21-2N	1968-72; w/2 Bbl. Carb.; 8.6:1 C.R.
	1.661	V-1963	.3410	4.961	44	21-2N	1973 Exc. WH, YH, YS, YW; 1974-79
	1.772	V-1902	.3411	4.976	45	21-4N	1973; WH, YH, YJ, YW
	1.772	V-3923	.3409	5.091	44	21-4N	1968-69 w/4 Bbl. Carb.; 1970 Ram Air III w/MT
	1.775	V-1946	.3409	5.051	45	21-4N	1970; w/4 Bbl. Carb.; Exc. Ram Air
Inta	ke						
	1.919	V-1743	.3407	4.894	30	EN-52	1967; 10.5:1 C.R.
	1.960	V-1824	.3415	5.089	29	1047	1968-69; w/2 Bbl. Carb.; w/M/T
	1.960	V-1964	.3415	4.980	44	1047	1970-74; w/2 Bbl. Carb.
	2.110	V-1826	.3415	5.098	30	8645	1967 10.75:1C.R.; 1968-70 Ram Air III w/4 Bbl. Carb.
	2.110	V-1903	.3420	4.982	29	1047	1971-74 w/4 Bbl. Carb.; 1975-76
POW	ERFORGE	D Stainles	s Steel V	alve			
Fxh	aust						
	1 770	V-8030B	3410	5 090	44	21-2N	
Inte	1.770	V-005011	.0410	5.030	44	C1-C1N	
inta	0.110	V 0001D	0415	E 007	00	01.01	
	2.110	V-8031R	.3415	5.097	29	21-2IN	

PERFORMANCE VALVES



Po	ntiac V8	3 - cont'd.					
ENGINE	HEAD DIA.	P/N	STEM DIA.	LENGTH	ANGLE	MATERIAL	NOTES
0.E.	Replaceme	ent Valve					
455 Ei	ngines						
Ext	naust						
	1.660 1.660 1.772	V-1832 V-1967 V-1902	.3405 .3410 .3411	4.984 4.870 4.976	44 44 45	21-2N 21-2N 21-4N	1970; YH Engs. 1971 w/2 Bbl. Carb.; 1972-74 Exc. Super Duty 1970 Exc. YH Engs.; 1971-72 HO
Inta	ake						
	1.960 2.110 2.110	V-1964 V-1903 V-1920	.3415 .3420 .3415	4.980 4.982 4.880	44 29 29	1047 1047 1047	1970; YH Engs. 1970 Exc. YH Engs.; 1971-72 HO 1971-74; w/4 Bbl. Carb. Exc. HO, Super Duty
Valve	e Guide - M	langanese	Bronze				
350; 4	00; 455 Engir	nes					
		VG-7002R VG-7501R	.3435 .3415	2.375 2.600			Straight; Cut-to-length; .502 O.D. Flanged; Cut-to-length; .502 O.D.; Pre-cut for ST-2003 seal
Valve	e Stem Sea	l					
		ST-2001	.3410				Rubber/PTFE insert; .562 guide dia.; Installation requires
		ST-2003	.3410				Rubber/PTFE insert; .531 guide dia.; Installation requires
		ST-2018R	.3410				PTFE; .531 guide dia.; Installation requires valve guide machining

VALVETRAIN COMPONENTS



ENGINE P/N MATERIAL		MATERIAL	SPECIFICATIONS	NOTES
350; 389	; 400; 455 Engines			
Complete T	iming Sets			
	ČTS-1112R	Performance Roller; .250" Double Roller	3 Keyway	
	CTS-3512X9R	Billet Roller; .250" Double Roller	9 Keyway	
	CTS-3612X9R	Competition Roller; Premium .250" Double Rolle	er 9 Keyway	
350; 400	; 455 Engines			
Push Rods				
	RP-3213R	Hardened Chrome Moly	5/16 dia.	389; 1960-66
	RP-3229R	Hardened Chrome Moly	5/16 dia.	400, 455; 1968-76; Use w/guide plates
Rocker Arm	IS			
	R-1032	Stock Type	1.5 Ratio	400, 455; 1968-76; Exc. Ram Air IV
	R-848	Stock Type	1.5 Ratio	389; 1959-66
	R-850	Stock Туре	1.65 Hatio	Ram Air IV; Use W///16 H/D screw-in studs
	RR-7008R	Aluminum Roller	1.6 Ratio	Requires 7/16 H/D screw-in studs; Guide plates
Rocker Adju	ustment Locks			
-	MR-1859PL	7/16 Stud Diameter		For roller rockers
	MR-1861PL	7/16 Stud Diameter		For stock style ball pivot rockers
Rocker Stud	ds			
	MR-1867RS	7/16 H/D Screw-In		For polylocks; .750 head end depth



Bearing Technology

BEARINGS

Material Selection for Performance

When selecting bearings, engine builders commonly focus on getting the proper clearances and maintaining adequate oil pressure. Durability is expected from any bearing that is chosen, and the advantages of different lining materials may not be considered. When an engine's operating conditions are considered, and bearing materials are chosen accordingly, the likelihood of success is greater.

In street driven applications there are a number of materials that will do an excellent job. Each material has advantages in terms of resistance to corrosion, rate of wear, and fatigue strength. The latter characteristic is most critical in racing engines that operate under high loads, generate considerable heat, and may be subjected to occasional detonation. No bearing

can withstand detonation, but the use of superior materials can improve the bearing's load carrying capability.

Federal-Mogul heritage of industry leading technology is reflected in the Sealed Power and Speed-Pro engine bearing product lines. We offer unique materials and alloys engineered for demanding applications. Speed-Pro engine bearings are specifically tailored to withstand punishing racing conditions.

Material Descriptions:

H-14 Super Duty Alloy (CH)

Our unique high performance H-14 lining material is bonded to a high strength AK1020 steel backing for unparalleled bearing durability in high load racing engines. This material will outperform competitor products by a wide margin in virtually any application from street performance to all out racing. We highly recommend this material for any performance use. (Except for blown race applications, which use our Babbitt bearings)



Copper-Lead (CP)

This material is referred to as H-24, and is noted for it's desirable fatigue resistance and strength characteristics. It provides the embedability and conformability required in many applications. This is our standard material, and is easily comparable to many competitor's performance bearings. Suitable for both street and moderate competitive use, but not as durable as our H-14 Alloy in racing usage.



Babbitt (SH)

Intended for applications which require high embedability and conformability, such as blown fuel or alcohol engines. Not recommended in engines that are intended for longer service life.

Aluminum (AP)

Provides excellent fatigue resistance and conformability, along with the corrosion resistant properties associated with aluminum. Primarily street use along with mild competition.



Aluminum Alloy (RA)

Specified for applications where a high degree of corrosion and wear resistance is desired. Street use only.

H-14 Alloy – Speed-Pro Engine Bearings (when strong is better than pretty!)

The unique H-14 lining material found in Speed-Pro bearings was specifically designed for high performance, and has a far greater load capacity than any other material. We bond this lining to an extra high strength steel backing, creating the best performance bearing in the industry. These materials are Federal-Mogul exclusives, and are not available from any other source.

One key to reducing fatigue wear in a bearing is to keep the overplate thickness to a minimum. The thinner material will less susceptible to repeated deformation under load. The only downside to the very thin overplate layer is a reduction in embedability – the bearing surface is more susceptible to damage from debris. Frequent oil changes and religious maintenance are mandatory when using Speed-Pro bearings, a small price to pay for the increase in durability.

Speed-Pro bearings have an unusual appearance. They lack the traditional white/gray color because the flash tin plate process has been eliminated. Flash tin plating enhances cosmetic appearance and provides a measure of break in protection, but the tin may migrate across the steel back under racing conditions and cause undesirable high spots on the I.D. of the bearing. These high spots can intrude into the oil clearance and become concentrated load areas susceptible to premature fatigue. The tin may also migrate into the lining material, reducing its strength. As an added benefit, elimination of the flash tin plate allows greater dimensional accuracy. If your engine will be used in competition, or for high performance street use, we highly recommend that you select Speed-Pro rod bearing and main bearing sets.



Design Features – Crush, Chamfer, Dowel Holes, and Oil Grooves

The basic design parameters for engine bearings are normally dependent on the engine and rotating component manufacturers. The width and diameter of the crankshaft journals, rod "big ends," and block housing bores are selected to provide adequate bearing surface area and acceptable component strength. Within these limitations, Federal-Mogul engineers work with a variety of design features to create the optimal bearing for any given application.

Crush

Crush refers to the press fit that results from having a small section of the bearing extended above the housing bore when the bearing half is in set in place. Federal-Mogul's performance bearings have additional crush built into the design. This "extra" material helps to force the outside diameter of the bearing against the rod or main bore when the assembly is torqued to specification. By increasing the surface contact between the bearing and it's bore, crush helps to compensate for bore distortion and aids in heat transfer. This is critical because the lubricating oil will break down and cause bearing failure if the area gets too hot.

Chamfer

Performance engines often require added crankshaft strength, which mandates special bearings. Racing crankshafts employ a larger diameter "fillet radius" in the area where the rod journal meets the counterweight. This rounded inside corner increases crankshaft strength, but can interfere with the rod bearing. Many of our performance rod bearings feature a "chamfer" which provides the side clearance necessary for these cranks. The chamfer is only on the edge of the bearing that is alongside the crankshaft counterweight, thus maintaining as much bearing surface area as possible. Even when using our chamfered bearings, it is advisable to check for adequate clearance in the chamfer area, as different aftermarket crankshaft manufacturers incorporate various fillet radius diameters into their designs. Inadequate clearance in the fillet radius area will cause "edge loading" on the side of the bearing, resulting in premature wear and eventual failure.

Dowel Holes

Several of our racing bearings incorporate a dowel hole. In drag racing applications that utilize aluminum connecting rods, a dowel pin is utilized to positively locate the rod bearing. Without this locating pin, the bore distortion and thermal expansion inherent in aluminum rods would reduce the bearing's crush, and may allow it to spin in the rod's bore. The pin fits into a hole located on the lower shell of the bearing, and is not usually required with steel connecting rods. Since the lower shell is not as highly loaded as is the upper, the dowel hole does not affect bearing performance – even when left unused.





3/4 Oil Grooves – the best solution for race engine durability

There are many schools of thought on the correct type and size of oil grooves in a bearing. Common variations include everything from no grooves at all, to "full grooves", which are machined around the internal circumference of the entire bearing. Arguments center around the relative importance of main bearing surface area available for load capacity verses adequate oil supply to the rod bearing. The greater the surface area, the more load a bearing can handle. Without adequate oiling, the rod bearings will fail. Federal-Mogul's solution to this problem is the 3/4 groove, which maintains the full surface area in the most highly loaded portion of the main bearing, while permitting improved oil flow to the rod bearing. This unique design gives the best of both worlds - ultimate high strength with outstanding lubrication characteristics. Speed-Pro main bearing sets featuring the 3/4 groove design are now available for a wide variety of GM, Ford, and Chrysler engines.

Contoured Flange design – doubles thrust load capacity

Federal-Mogul's Speed-Pro main bearing sets incorporate a unique "ramp and flat" flange bearing design, which greatly increases the thrust load capacity of the bearings under high stress operating conditions. This patented design uses a series of formed "ramp and flat" hydrodynamic profiles, which channel oil onto the surface of the thrust face. Race applications using high clutch loads, or frequent "on and off" throttle transitions will greatly benefit from this innovation. You can recognize bearings featuring the contoured flange by the three vertical grooves machined into the flange surface, compared to the common "thumbnail" shaped oil reliefs found on standard passenger car bearings.



Enlarged View of Thrust Face Pad Section

Manufacturing Technology – Bored verses Broached

Federal-Mogul has recently invested in new CNC technology to change the way many of our racing bearings are manufactured. The broaching process that had been used produces an excellent quality part – but the new CNC boring technology delivers even greater dimensional accuracy, and insures more consistent sizing and geometry over the entire production run. Bearings manufactured with the new CNC boring process can be readily identified by the fine pattern of machined "grooves" that run around the bearing's inside diameter.

Clearances

The clearance specifications shown in this catalog are arithmetic ranges showing the clearances possible with parts meeting factory specifications. These are not clearance recommendations! Performance machinists often desire clearances different than those suggested by the engine's O.E. manufacturer. If in doubt, always use the O.E. specifications. Most racing engine builders target a clearance range between .0025"-.003". Larger bearing clearances are not normally recommended. They will result in lower oil pressure, and may dictate use of a high volume oil pump. Current professional race teams are actually leaning toward reduced clearances, due to greater machining accuracy and better internal oil control. Bearing clearances can be measured using Plastigage, but quality performance oriented machinists will use a dial bore gage for greater accuracy. In either case, clearances must be measured "vertically," since the bearing's wall thickness will vary as you move closer to the parting line.

Oil Pressure

A commonly accepted reference is to maintain a minimum oil pressure of 10 lbs. per 1000 RPM. Many engine builders prefer to have more pressure than a stock oil pump will provide, particularly at lower engine speeds. Larger bearing clearances will result in reduced oil pressure, particularly at low engine speeds. Other causes of low oil pressure include worn lifter bores, excessive cam bearing clearance, air leaks or restrictions in the oil pump inlet tube or screen, and excessive internal clearances in the oil pump itself. A high volume oil pump will increase oil pressure up to the point where the relief valve opens.

Coatings

DUROSHIELD[®] coating is a polymer matrix enhanced with moly and tungsten disulphide. The polymer is hydrophylic – it actually absorbs and holds oil. The coated bearings deliver added insurance for extreme use. They may be "burnished" with a clean shop cloth and oil – but no abrasives.



Crankshaft Grinding and Polishing



When ground, the surface of a crankshaft will develop microscopic peaks which are "tipped" in the direction that the sparks spray during grinding (see the illustration above). This is particularly true of cast iron crankshafts – including many "new" cranks from offshore suppliers. If these peaks point toward the oil film area when the engine is running, lubrication is interrupted, and the bearing will show premature wear. It is important that the crankshaft be ground and final polished so that these peaks are tipped opposite the direction that the crank rotates when it is installed in the engine, this is referred to as the "favorable" direction.

We recommend grinding the crank in the "favorable" direction, followed by a multi-step polishing process using progressively finer paper. The first polishing operation uses 280 grit paper with the shaft rotating in the reverse direction – this helps to "knock off" some of the raised material left over from grinding. The second polishing process uses 320 grit paper, and the crank should be rotating in the "favorable" direction. A third step polish with a very fine (400 grit) paper is optional, but should again be done in the "favorable" direction. If the thrust surface was contacted during the resizing operation it must also be polished.

Specialty Tools and Supplies

Federal-Mogul supplies a variety of tools and supplies that will make your rebuilding job go more smoothly, and will enhance the durability of finished engines.

Plastigage

A quick and easy device for checking bearing clearances. Available in three ranges to cover most applications. Ten strips per package, a



measurement gauge is printed on each wrapper.

SPG-1 (green)	.001002 measurement range
SPR-1 (red)	.002003 measurement range
SPB-1 (blue)	.003004 measurement range

Bolt Protectors BP-1

These flexible rubber covers install over the rod bolts, and protect the crankshaft from damage during engine assembly. (100 per box)



Assembly Lube 55400

The ideal assembly lubricant for all engine components. Provides excellent break in protection, then dissolves completely in oil once the engine is running. 4 ounce bottles provide enough lube for a complete engine assembly.





Installation Guidelines

When installing new bearings there are certain items that require careful attention.

- 1. All rods, rod caps, and main caps should be marked before disassembly, so that they may be reinstalled in their original positions. Permanent ink or machinist dye markings are preferable, as hammer type stamps can add potential stress risers and may cause deformation of connecting rods and main caps.
- 2. Rod and main bearing bores should be inspected with a dial bore gauge to check for out of round or taper conditions that would shorten the service life of the new bearings. Any housing bore that measures out of specifications should be resized. Many professional machinists will recondition all connecting rods and align hone the block as part of their regular engine rebuilding procedure.
- **3.** The crankshaft's journals must be carefully measured and be within manufacturer's tolerances, they must be smooth, and free of burrs. Everything must be spotlessly clean.
- **4.** NEVER use any kind of abrasive pad, cloth, or paper on the bearing surface prior to installation. The overplate layer on an engine bearing may be as thin as .0005", any abrasive used will reduce bearing life.
- 5. Coated bearings may be "burnished" with engine oil and CLEAN shop cloth.
- 6. The bearings should be positioned in the rods or main saddles dry, and the bearing surfaces should be lubricated before crankshaft installation.
- 7. Exercise extreme care when installing the rods. Use our bolt protectors on the rod bolts to prevent nicks to the crankshaft.
- 8. Bolt threads should be clean and lightly lubricated.
- 9. Check bearing clearances with Plastigage or a dial bore gage.
- **10.** All bolts must be properly torqued to the manufacturer's specifications.
- The engine should be prelubricated before it is started. Many newer engine designs use a crankshaft driven oil pump that can't be driven by a drill motor.



BEARING SET	DATA		SHAFT,	HOUSING, and CL	EARANCE SE	PECIFICATIONS for	STANDAR	D BEARINGS		
P/N	Set Contents	Pos.	Min. Shaft	Max. Shaft	Min. Housing	Max. Housing	Min. Clearance	Max. Clearance	Max. Wall	Max. Length
107M	Performance Main Set		Buick	V6		Super Duty Allov	,	3/4 Groove		
7116CH	Main Brg.	1-3	2.4990	2.5000	2.6870	2.6880	.0005	.0030	.0935	.8690
7117CH	Flange	2	2.4990	2.5000	2.6870	2.6880	.0005	.0030	.0935	1.0580
7118CH	Main Brg.	4	2.4990	2.5000	2.6870	2.6880	.0005	.0030	.0935	.8690
108M	Performance Main Set		Oldsmobile	V8		Super Duty Alloy		3/4 Groove		
7042CH	Main Brg.	2-4	2.9993	3.0003	3.1880	3.1890	.0005	.0035	.0936	.9800
7042CHA	Main Brg.	1	2.9993	3.0003	3.1880	3.1890	.0005	.0035	.0936	.9800
7043CH 7044CH	Main Bro	5 5	2.9993	3 0003	3 1880	3 1890	.0005	.0035	.0930	1.1950
112M	Borformance Main Set	0	Pontiao	V9	0.1000	Super Duty Alloy	.0010	3/4 Groovo	.0002	1.0200
7121CHA	Main Bro.	1-2-3	2,9990	3.0000	3,1880	3,1890	.0016	.0036	.0932	.9430
7122CHA	Flange	4	2.9990	3.0000	3.1880	3.1890	.0006	.0036	.0937	.0100
7123CHA	Main Brg.	5	2.9990	3.0000	3.1880	3.1890	.0016	.0036	.0932	1.5850
119M	Performance Main Set		Chrysler	Big Block		Super Duty Alloy	,	3/4 Groove		
7146CH	Main Brg.		2.7495	2.7505	2.9425	2.9430	.0008	.0033	.0956	.8750
7148CH	Flange	3	2.7495	2.7505	2.9425	2.9430	.0008	.0033	.0956	1.2240
120M	Performance Main Set		Chrysler	Small Block		Super Duty Alloy		3/4 Groove		
7149CHA	Main Brg.	1-2-4	2.8095	2.8106	3.0025	3.0030	.0005	.0027	.0959	.8870
7151CHA	Flange Main Bra	3	2.8095	2.8105	3.0025	3.0030	.0005	.0027	.0959	1.1520
71520HA	Main Bry.	5	2.8095	2.0105	3.0025	3.0030	.0005	.0027	.0959	1.2590
125M	Performance Main Set	1045	0 7404	390, 427, 428	0.0/10	Super Duty Alloy	0005	3/4 Groove	0060	0120
7172CHA	Flance	1-2-4-5	2.7404 2.7484	2.7492	2.9412	2.9420	.0005	.0026	.0960	1 1180
107M	Parformanco Main Sot	0	Ford	14	2.0112	Super-Duty Alley		3/4 Groovo	.0000	1.1100
7181CHA	Plain	1-2-4-5	2,3982	2,3990	2,5902	2.5910	.0005	.0026	.0956	.9500
7182CHA	Flange	3	2.3982	2.3990	2.5902	2.5910	.0005	.0026	.0951	1.1950
129M	Performance Main Set		Ford	Small Block		Super-Duty Alloy	1	3/4 Groove		
7184CHA	Flange	3	2.2482	2.2490	2.4412	2.4420	.0005	.0026	.0961	1.1330
7183CHA	Main Brg.		2.2482	2.2490	2.4412	2.4420	.0005	.0026	.0961	.8900
C129M	Performance Main Set		Ford	Small Block		Super-Duty Alloy	; Coated	3/4 Groove		
7184CHA	Flange	3	2.2482	2.2490	2.4412	2.4420	.0005	.0026	.0961	1.1330
7183CHA	Main Brg.		2.2482	2.2490	2.4412	2.4420	.0005	.0026	.0961	.8900
130M	Performance Main Set		Ford	Small Block		Super-Duty Alloy	; Coated	3/4 Groove		
7156CHB	Flange Main Bra	3	2.9994	3.0002	3.1922	3.1930	.0005	.0026	.0965	.8400
7157CHA	Main Brg.		2.9994	3.0002	3.1922	3.1930	.0005	.0026	.0965	1.133
C130M	Performance Main Set	0	Ford	Small Block	0 1000	Super-Duty Alloy	; Coated	3/4 Groove	0065	8400
7157CHA	Main Bro	3	2.9994 2.9994	3.0002	3 1922	3 1930	.0005	.0026	.0905	.0400
124M	Porformance Main Set		Ford	120 160	0.TOLL	Super-Duty Alloy	.0000	3/4 Groovo	.0000	1.100
7186CH	Main Bro.		2,9994	3.0002	3,1922	3.1930	.0005	.0026	.0960	.9500
7187CH	Flange	3	2.9994	3.0002	3.1922	3.1930	.0005	.0030	.0958	1.1200
136M	Performance Main Set		Chevrolet	Big Block		Babbitt		3/4 Groove		
7058SH	Main Brg.		2.7482	2.7492	2.9370	2.9380	.0006	.0032	.0936	1.0070
7059SH	Flange	5	2.7482	2.7492	2.9370	2.9380	.0006	.0032	.0936	1.8110
139M	Performance Main Set		Chevrolet	Small Block		Super Duty Alloy		3/4 Groove		
7081CHB	Main Brg.		2.4479	2.4488	2.6406	2.6415	.0010	.0038	.0954	.8070
7082CHB	Flange	5	2.4479	2.4488	2.6406	2.6415	.0010	.0038	.0954	1.7180
C139M	Performance Main Set		Chevrolet	Small Block		Super Duty Alloy	; Coated	3/4 Groove		
7081CHB	Main Brg.	-	2.4479	2.4488	2.6406	2.6415	.0010	.0038	.0954	.8070
7082CHD	Flange	5	2.4479	2.4400	2.0400	2.0415	.0010	.0038	.0954	1.7180
140M	Performance Main Set		Chevrolet	Small Block	0.0400	Super Duty Alloy	0005	3/4 Groove	0055	0070
7091CHA	Flance	5	2.0404	2.0493	2.0400	2.0415	.0005	.0031	.0955	.0070
C140M	Performance Main Cet	0	Chevrolat	Small Blook	2.0400	Super Duty Allow	· Coated	3/4 Groove	.0000	
7091CHA	Main Bro.		2,6484	2.6493	2,8406	2.8415	, 0001eu	.0031	0955	.8070
7092CHA	Flange	5	2.6479	2.6488	2.8406	2.8415	.0008	.0036	.0955	1.7180
141M	Performance Main Set		Chevrolet	Big Block		Super Duty Allov		3/4 Groove		
7058CHA	Main Brg.		2.7482	2.7492	2.9370	2.9380	.0005	.0034	.0937	1.0070
7059CHA	Flange	5	2.7482	2.7492	2.9370	2.9380	.0005	.0034	.0937	1.8110
C141M	Performance Main Set		Chevrolet	Big Block		Super Duty Alloy	; Coated	3/4 Groove		
7058CHA	Main Brg.		2.7482	2.7492	2.9370	2.9380	.0005	.0034	.0937	1.0070
7059CHA	Flange	5	2.7482	2.7492	2.9370	2.9380	.0005	.0034	.0937	1.8110
142M	Performance Main Set		Chrysler	426, 440		Babbitt		3/4 Groove; Top fuel		
7131SHC	Main Brg.		2.7495	2.7505	2.9425	2.9430	.0005	.0025	.0958	.9420



BEARING SET	T DATA		SHAFT,	HOUSING, and CLE	ARANCE SI	PECIFICATIONS for	STANDAR	D BEARINGS	Mov	Мах
P/N	Set Contents	Pos.	Shaft	Shaft	Housing	Housing	Clearance	Clearance	Wax.	Length
142M 7133SHC	Performance Main Set	3	Chrysler 2 7495	426, 440 2 7505	2 9425	Babbitt 2 9430	0005	3/4 Groove; Top	fuel 0958	1 2240
144M	Performance Main Set	1.5	Ford	Small Block	2.0417	Super Duty Alloy	0005	0027	0060	9400
	Main Bry.	1-0	2.7404	2.7492	2.9417	2.9420	.0005	.0027	.0902	.0400
3701CA 3702CA	Performance Main Set Performance Main Space Performance Main Space	rs 1-2-4-5 rs 3	Ford	Small Block		Bearing Spacers		351 SVO M6303-E3	51 Crank in 351 W	Vindsor block
146M	Performance Main Set		Ford	Cleveland/Modifi	ied V8	Super Duty Alloy	,	3/4 Groove		
7176CHB	Plain	1-2-4-5	2.7484	2.7492	2.9417	2.9425	.0005	.0027	.0962	.8800
/1//CHB	Flange	3	2.7484	2.7492	2.9417	2.9425	.0005	.0027	.0962	1.1180
147M SEMI 3701CA 3701CAA	Performance Main Set Performance Main Space Performance Main Space	rs 1-2-4-5 rs 3	Ford	Small Block		Bearing Spacers		Use w/Factory 351	C crank in 351 W	indsor block
148M	Performance Main Set		Ford	4.6L SOHC		Super Duty Alloy		3/4 Groove		
1987W	Thrust Washer	T.W.5							.0940	
7251CH	Plain	1-2-3-4	2.6568	2.6576	2.8505	2.8512	.0005	.0026	.0962	.7200
7252CH	Flange	5	2.6568	2.6576	2.8505	2.8512	.0005	.0025	.0960	.8890
149M	Performance Main Set	ТЖБ	Ford	4.6L DOHC		Super Duty Alloy		3/4 Groove	0040	
7253CH	Plain	1-2-3-4	2,6568	2,6576	2,8505	2,8512	.0005	.0019	.0940	7580
7254CH	Flange	5	2.6568	2.6576	2.8505	2.8512	.0005	.0019	.0968	.8910
151M	Performance Main Set		Pontiac	V8		Super Duty Alloy		3/4 Groove		
7196CH	Plain	1-2-3	3.2495	3.2500	3.4380	3.4385	.0006	.0026	.0937	.9430
7197CH	Flange	4	3.2495	3.2500	3.4380	3.4385	.0006	.0026	.0937	1.1950
7198CH	Plain	5	3.2495	3.2500	3.4380	3.4385	.0006	.0026	.0937	1.5950
152M	Performance Main Set		Chevrolet	Small Block	0 7500	Super Duty Alloy		3/4 Groove	0050	0050
7203CH	Plain	1-2-4-5	2.5588	2.5593	2.7509	2.7515	.0006	.0023	.0950	.8050
720401	Fialitye	3	2.0000	2.0090	2.7509	2.7314	.0000	.0023	.0950	1.0270
153M	Thrust Washer	5	Ford	wodular v8		Super Duty Alloy		3/4 Groove	1151	2 9250
153M	Main Brg.	1	2,6567	2,6577	2.8504	2,8512	.0005	.0026	.0962	.7580
153M	Main Brg.	2-3-4-5	2.6567	2.6577	2.8504	2.8512	.0005	.0026	.0962	.7870
156M	Performance Main Set		Chrvsler	Viper V10		Super Duty Allov		3/4 Groove		
7102CH	Main Brg.	1-2-4-5	2.9996	3.0004	3.1925	3.1930	.0005	.0028	.0958	.8770
7103CH	Flange	3	2.9996	3.0004	3.1925	3.1930	.0005	.0028	.0958	1.1520
157M	Performance Main Set		Buick	V8 455		Super Duty Alloy	,	3/4 Groove		
7261CH	Main Brg.	1-2-4	3.2495	3.2505	3.4380	3.4390	.0005	.0035	.0935	.8690
7262CH	Flange Main Bro	3	3.2495	3.2505	3.4380	3.4390	.0005	.0035	.0935	1.0580
1203011	Derfermense Mein Set	0	0.2490	0.2000	3.4300	Super Duty Alley	.0005	.0000	.0900	1.1400
7306CH	Performance Main Set	1-2-4-5	2 2827	2 2835	2 4520	2 4528	0006	0032	0834	7710
7307CH	Flange	3	2.2827	2.2835	2.4520	2.4528	.0006	.0032	.0839	.9730
159M 7194CH	Performance Main Set Main Brg		Honda 2.1644	L4 DOHC 2.1652	2.3230	Super-Duty Alloy 2.3238	.0005	3/4 Groove .0024	.0790	.7870
162M	Performance Main Set		Chevrolet	Big Block		Super Duty Alloy		3/4 Groove		
7311CH	Plain	1-2-3-4	2.4980	2.4990	2.6870	2.6880	.0006	.0034	.0937	1.0470
7312CH	Flange	5	2.4980	2.4990	2.6870	2.6880	.0014	.0044	.0933	1.8110
4020M	Main Set		Ford	390, 427, 428	0.0440	Overplated Copper	-Lead Alloy	0000	0000	0400
2301CP	Main Brg. Flance	З	2.7484	2.7492	2.9412	2.9420	.0005	.0026	.0960	.9120
4040M	Main Sat	0	Dentice	1/0	2.0412	Overplated Copper		1/2 Groove	.0000	1.1200
2336CP	Main Bro		2 9990	3 0000	3 1880	3 1890	0005	0035	0938	9380
2337CP	Flange	4	2.9990	3.0000	3.1880	3.1890	.0005	.0035	.0937	1.1350
2339CP	Main Brg.	5	2.9990	3.0000	3.1880	3.1890	.0005	.0035	.0938	1.5900
4094M	Main Set		Chrysler	Big Block		Overplated Copper	-Lead Alloy			
2321CP	Main Brg.		2.6245	2.6255	2.8175	2.8180	.0008	.0033	.0956	.9490
2322CP	Flange	3	2.6245	2.6255	2.8175	2.8180	.0008	.0033	.0956	1.2240
4095M	Main Set		Chrysler	Big Block		Overplated Copper	-Lead Alloy	Full Groove		
2331CP	Main Brg.	0	2.7495	2.7505	2.9425	2.9430	.0008	.0033	.0956	.9490
23330P	riange	3	2.7495	2.7505	2.9425	2.9430	.0008	.0033	.0956	1.2240
4124MA	Main Set		Chevrolet	L6	0.4000	A-Series aluminu	m bearings	0000	0055	0070
2558RA	Main Brg. Flance	7	2.2983	2.2993	2.4906	2.4916	.0005	.0029	.0955	.8070
20001A	riange	1	2.2303	2.2330	2.4300	2.4310	.0005	.0025	.0900	1.0090



BEARING SET			SHAFT.	HOUSING, and CL	EARANCE SE	PECIFICATIONS for	r STANDAR	DBEARINGS		
			Min.	Max.	Min.	Max.	Min.	Max.	Max.	Max.
P/N	Set Contents	Pos.	Shaft	Shaft	Housing	Housing	Clearance	Clearance	Wall	Length
4125M	Main Set		Ford	Small Block		Overplated Copper	-Lead Alloy			
2601CP	Main Brg.	0	2.2482	2.2490	2.4412	2.4420	.0005	.0024	.0962	.8800
2603CP	Flange	3	2.2482	2.2490	2.4412	2.4420	.0005	.0024	.0962	1.1330
4221M	Main Set		Pontiac	V8	0.4000	Overplated Copper	-Lead Alloy	1/2 Groove	0000	0.400
2901AP	Main Brg.	1	3.2495	3.2500	3.4380	3.4385	2000. 2000	.0025	.0938	.9430
2903AP	Main Bro	5	3.2495	3.2500	3.4380	3.4385	.0005	.0020	.0938	1.5950
1261M	Main Set	Ŭ	Ford	390 /27 /28	0.1000	Overnlated Conner	vollA heal-	10020		
2301CP	Main Bro.		2.7484	2.7492	2.9412	2.9420	.0005	.0026	.0960	.9120
2304CP	Flange	3	2.7484	2.7492	2.9412	2.9420	.0005	.0026	.0960	1.1180
4281M	Main Set		Oldsmobile	V8		A-Series aluminu	m bearings			
3046RA	Main Brg.	2-4	2.4983	2.4993	2.6870	2.6880	.0005	.0035	.0936	.9800
3046RAA	Main Brg.	1	2.4983	2.4993	2.6870	2.6880	.0005	.0035	.0936	.9800
3047RA	Flange Main Dra	3	2.4983	2.4993	2.6870	2.6880	.0005	.0035	.0936	1.1950
3048RA	Main Brg.	5	2.4983	2.4993	2.6870	2.6880	.0013	.0043	.0932	1.6300
4400MA	Main Set		Chevrolet	Big Block	0.0070	A-Series aluminu	m bearings	0001	0007	1 0 4 7 0
3191CP 3192CP	Flance	5	2.7400	2.7495	2.9370	2.9380	.0005	.0031	.0937	1.0470
4410M	Main Sat	5	Pulok	<u>Vo</u>	2.0070	Overplated Copper	Lood Allow	.0001	.0007	1.0110
3206CP	Main Set		2 9995	3 0005	3 1880	3 1890	-Lead Alloy	0035	0935	8690
3207CP	Flange	3	2.9995	3.0005	3,1880	3.1890	.0005	.0035	.0935	1.0580
3208CP	Main Brg.	5	2.9995	3.0005	3.1880	3.1890	.0005	.0035	.0935	.8690
4663M	Main Set		Chevrolet	Small Block		Overplated Copper	-Lead Allov			
3201CP	Main Brg.		2.4484	2.4493	2.6406	2.6415	.0005	.0029	.0956	.8070
3202CP	Flange	5	2.4479	2.4488	2.6406	2.6415	.0006	.0034	.0956	1.7170
4664M	Main Set		Buick	V8		Overplated Copper	-Lead Alloy			
3321CP	Main Brg.		3.2495	3.2505	3.4380	3.4390	.0005	.0035	.0935	.8690
3322CP	Flange	3	3.2495	3.2505	3.4380	3.4390	.0005	.0035	.0935	1.0580
3323CP	Main Brg.	5	3.2495	3.2505	3.4380	3.4390	.0005	.0035	.0935	1.1480
4865M	Main Set		Ford	L4	0.0710	Overplated Copper	-Lead Alloy	0000	0700	1 0050
27866P	Main Brg.		2.1253	2.1201	2.2710	2.2715	.0005	.0028	.0722	1.0050
4907M	Main Set		Ford	429, 460	0 1000	Overplated Copper	-Lead Alloy	0000	0050	0500
3361CP	Flance	3	2.9994 2.9994	3.0002	3.1922	3.1930	.0005	.0030	.0958	.9500
402201	Main Sot	0	Chryclor	Small Block	0.1022		m boarings	.0000	.0000	1.1200
2131BAA	Main Bro.		2.4995	2.5005	2,6925	2.6930	.0006	.0027	.0957	.8770
2132RAA	Flange	3	2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	1.1520
2143RAA	Main Brg.	4	2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	1.3270
4924MA	Main Set		Chrysler	Big Block		A-Series aluminu	m bearings	Partial Groove		
2332RA	Main Brg.		2.7495	2.7505	2.9425	2.9430	.0006	.0027	.0957	.9490
2333RA	Flange	3	2.7495	2.7505	2.9425	2.9430	.0006	.0027	.0957	1.2240
4925M	Main Set		Ford	Cleveland/Modi	fied V8	A-Series aluminu	m bearings			
3401RA	Main Brg.	0	2.7484	2.7492	2.9417	2.9425	.0005	.0023	.0962	.8800
3402RA	Flange	3	2.7484	2.7492	2.9417	2.9425	.0005	.0023	.0962	1.1180
4926MA	Main Set		Chevrolet	Small Block	0.0406	A-Series aluminu	m bearings	0007	0055	9070
3420RA 3427RA	Flance	5	2.0404	2.6493	2.0400	2.0415	.0005	.0027	.0955	.0070
1019101	Main Sat	0	Chryclor	Small Block	2.0100		m boarings	.0002	.0000	1.7100
3451BAA	Main Bro.		2.8095	2.8105	3.0025	3.0030	.0005	.0023	.0959	.8770
3452RA	Flange	3	2.8095	2.8105	3.0025	3.0030	.0005	.0023	.0959	1.1520
3453RA	Main Brg.	5	2.8095	2.8105	3.0025	3.0030	.0005	.0023	.0959	1.2590
4950M	Main Set		AMC	V8		Overplated Copper	-Lead Alloy			
3311CPB	Main Brg.		2.7482	2.7489	2.9410	2.9420	.0005	.0028	.0958	.9460
3312CPA	Flange	3	2.7482	2.7489	2.9410	2.9420	.0005	.0028	.0958	1.2700
4979M	Main Set		Ford	L4		Overplated Copper	-Lead Alloy			
3546CP	Main Brg.	0	2.3982	2.3990	2.5902	2.5910	.0005	.0026	.0956	.9500
304/08	гапуе	3	2.3982	2.3990	2.5902	2.5910	.0005	.0026	.0956	1.1950
4999MA	Main Set		Chrysler	Small Block	2 0005	A-Series aluminu	m bearings	0000	0050	0770
3452RAA	Flange	3	2.8095	2.0105	3.0025	3.0030	.0005	.0023	0959	.8770
3453RA	Main Bro.	5	2.8095	2.8105	3.0025	3.0030	.0005	.0023	.0959	1.2590
5024MA	Main Set	•	Chrysler	Small Block		A-Series aluminu	m bearings			
2131RAA	Main Brg.		2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	.8770
2132RAB	Flange	3	2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	1.1520



BEARING SET	Γ DATA		SHAFT,	HOUSING, and CI	LEARANCE SI	PECIFICATIONS	for STANDAR	DBEARINGS		
P/N	Set Contents	Pos.	Min. Shaft	Max. Shaft	Min. Housing	Max. Housing	Min. Clearance	Max. Clearance	Max. Wall	Max. Length
5024MA	Main Set	5	Chrysler 2 4995	Small Block	2 6925	A-Series alumi	num bearings	0027	0957	1 3270
5025MA	Main Brg.	5	Chrysler	Big Block	2.0020		num bearings	Partial Groove	.0001	1.0270
2332RA	Main Brg.		2.7495	2.7505	2.9425	2.9430	.0006	.0027	.0957	.9490
2333RA	Flange	3	2.7495	2.7505	2.9425	2.9430	.0006	.0027	.0957	1.2240
5037M	Main Set		AMC	V8		Overplated Cop	per-Lead Alloy			
3311CPA	Main Brg.		2.7482	2.7489	2.9410	2.9420	.0005	.0028	.0958	.9280
3312CPA	Flange	3	2.7482	2.7489	2.9410	2.9420	.0005	.0028	.0958	1.2700
5078M	Main Set		Ford	Small Block		Overplated Cop	per-Lead Alloy			
3701CP	Main Brg.	0	2.9994	3.0002	3.1922	3.1930	.0005	.0026	.0960	.8400
37020P	Flarige	3	2.9994	3.0002	3.1922	3.1930	CUUU.	.0020	.0960	1.1330
5085M	Main Set Main Bro		2 4484	2 //03	2 6/06	Overplated Cop	per-Lead Alloy	0020	0056	8070
3202CP	Flange	4	2.4479	2.4488	2.6406	2.6415	.0005	.0023	.0956	1.7170
5090MA	Main Set		Chevrolet	V6		A-Series alumi	num bearings			
3766RA	Main Brg.	1	2.4937	2.4946	2.6870	2.6879	.0008	.0033	.0958	.9700
3767RA	Main Brg.	2	2.4937	2.4946	2.6870	2.6879	.0008	.0033	.0958	.7420
3768RA	Flange	3	2.4937	2.4946	2.6870	2.6879	.0008	.0033	.0958	.9420
3769RA	Main Brg.	4	2.4937	2.4946	2.6870	2.6879	.0011	.0035	.0956	1.2480
5095MA	Main Set	0.4	Chrysler	Small Block	0 6005	A-Series alumi	num bearings	0007	0057	0770
2131RAA 2131RAB	Main Brg.	2-4 1	2.4995	2.5005	2.0925	2.6930	.0008	.0027	.0957	.0770 8770
2132RAB	Flange	3	2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	1.1520
2143RAA	Main Brg.	5	2.4995	2.5005	2.6925	2.6930	.0006	.0027	.0957	1.3270
5107M	Main Set		Ford	Small Block		Overplated Cop	per-Lead Alloy			
3381CPA	Main Brg.		2.9994	3.0002	3.1922	3.1930	.0005	.0026	.0960	.8400
3382CPB	Flange	3	2.9994	3.0002	3.1922	3.1930	.0005	.0026	.0960	1.1330
7144MA	Main Set		Buick	V6	0.0070	A-Series alumi	num bearings	0000	0000	0000
3111APA 3112APA	Main Brg. Flange	2	2.4988	2.4998	2.6870	2.6880	8000.	.0029	.0932	.8690
3113APA	Main Brg.	4	2.4988	2.4998	2.6870	2.6880	.0008	.0029	.0932	.8690
7298MA	Main Set		Chevrolet	Small Block		A-Series alumi	num bearings			
4511A	Main Brg.	1-2-4-5	2.5588	2.5593	2.7509	2.7514	.0006	.0023	.0955	.8050
4512A	Flange	3	2.5588	2.5593	2.7509	2.7514	.0006	.0023	.0955	1.0270
994M	Main Set		Chevrolet	Small Block		A-Series alumi	num bearings			
2023CPA	Flange Main Bra	5	2.2978	2.2988	2.4906	2.4916	.0006	.0036	.0956	1.7180
2000NA			2.2903	2.2995	2.4900	2.4910	.0005	.0029	.0955	.0070
2021DB	Cam Set	1	1 8682	1 8692	2 0190	2 0210	0007	nn43	0744	7400
2022DR	Cam Brg.	2	1.8682	1.8692	2.0090	2.0210	.0010	.0052	.0694	.7450
2023DR	Cam Brg.	3-4	1.8682	1.8692	1.9990	2.0010	.0007	.0043	.0644	.7400
2024DR	Cam Brg.	5	1.8682	1.8692	2.0090	2.0110	.0007	.0043	.0694	.9400
1146M	Cam Set		Pontiac	V8		Babbitt		Full Round Design		
1557DR	Cam Brg.	1	1.8992	1.8997	2.0297	2.0317	.0012	.0033	.0644	1.0600
1004M	Cam Sot		Ford	Small Block	2.0291	Pabbitt	.0012	Eull Bound Design	.0044	.0000
2601DB	Cam Set	1	2 0805	2 0815	2 2030	2 2050	0005	0039	0602	6600
2602DR	Cam Brg.	2	2.0655	2.0665	2.1880	2.1900	.0005	.0039	.0602	.6600
2603DR	Cam Brg.	3	2.0505	2.0515	2.1730	2.1750	.0005	.0039	.0602	.6600
2603DRI	Cam Brg.	4	2.0355	2.0365	2.1580	2.1600	.0005	.0039	.0602	.6600
2604DR	Cam Brg.	5	2.0205	2.0215	2.1430	2.1450	.0005	.0039	.0602	.6600
1220M 1550DB	Cam Set		1 8002	V8 1 8007	2 0207	2 0317	0012	Full Round Design	0644	6800
10040	Cam Sot		Oldomobilo	1.0337	2.0231	Dabbitt	.0012	Eull Bound Design	.0044	.0000
3046DR	Cam Bro	1	2.0365	2,0373	2,1680	2,1695	.0015	.0050	.0646	.6930
3047DR	Cam Brg.	2	2.0165	2.0173	2.1480	2.1495	.0012	.0050	.0646	.6880
3048DR	Cam Brg.	3	1.9965	1.9973	2.1280	2.1295	.0012	.0050	.0646	.6880
3048DRI	Cam Brg.	4	1.9765	1.9773	2.1080	2.1095	.0012	.0050	.0646	.6880
3049DR	Cam Brg.	5	1.9565	1.9573	2.0880	2.0895	.0012	.0050	.0646	.6880
1235M	Cam Set	4	Chevrolet	Small Block	0.0100	Babbitt	0007	Full Hound Design	0744	7/00
2021DR 2022DR	Cam Brg.	ا 2-5	1.8682	1.8692	2.0190	2.0210	.0007	.0043	.0744	.7400
2023DR	Cam Brg.	3-4	1.8682	1.8692	1.9990	2.0010	.0007	.0043	.0644	.7400
1255M	Cam Set		Chevrolet	Big Block		Babbitt		Grooved		
3191DRI	Cam Brg.	1	1.9487	1.9497	2.1395	2.1405	.0005	.0031	.0941	.8700



BEARING SET	DATA		SHAFT, I	HOUSING, and CLE	EARANCE SP	PECIFICATIONS f	or STANDAR	D BEARINGS		
P/N	Set Contents	Pos.	Min. Shaft	Max. Shaft	Min. Housing	Max. Housing	Min. Clearance	Max. Clearance	Max. Wall	Max. Length
1255M	Cam Set		Chevrolet	Big Block		Babbitt		Grooved		
3192DRI	Cam Brg.	2	1.9487	1.9497	2.1295	2.1305	.0005	.0030	.0891	.9900
3193DRI	Cam Brg.	3-4	1.9487	1.9497	2.1195	2.1205	.0005	.0031	.0841	.9900
3194DR	Cam Brg.	5	1.9487	1.9497	2.1295	2.1305	.0007	.0033	.0894	.9900
1268M	Cam Set		Ford	390, 427, 428		Babbitt		Full Round Design		
2301DRA	Cam Brg.	1	2.1238	2.1248	2.3095	2.3105	.0023	.0049	.0913	.6250
3208DR	Cam Brg.	2,3,4	2.1238	2.2148	2.3095	2.3105	.0021	.0053	.0913	.5650
3209Dh		5	2.1230	2.2140	2.3093	2.3100	.0021	.0000	.0913	.5050
1401M	Cam Set	4	AMC 0 1105	V8 0 1005	0.0455	Badditt	0005		0600	0200
3312DB	Cam Brg	2	2.1195	2.1205	2.2400	2.2400	.0005	.0030	.0620	.9200
3313DR	Cam Brg.	3	2.0595	2.0605	2.1855	2.1865	.0005	.0030	.0620	.6400
3313DRI	Cam Brg.	4	2.0295	2.0305	2.1555	2.1565	.0005	.0030	.0620	.6400
3314DR	Cam Brg.	5	1.9995	2.0005	2.1255	2.1265	.0005	.0030	.0620	.6400
1403M	Cam Set		Ford	Cleveland/Modif	ied V8	Babbitt		Full Round Design		
2601DRI	Cam Brg.	1	2.1238	2.1248	2.2490	2.2510	.0007	.0043	.0616	.6650
2602DR	Cam Brg.	2	2.0655	2.0665	2.1880	2.1900	.0005	.0039	.0602	.6600
2603DR	Cam Brg.	3	2.0505	2.0515	2.1730	2.1750	.0005	.0039	.0602	.0000
2604DR	Cam Brg.	5	2.0335	2.0215	2.1300	2.1450	.0005	.0039	.0602	.6600
1404M	Cam Set		Chevrolet	Big Block		Babbitt		Full Bound Design		
3191DRI	Cam Brg.	1	1.9487	1.9497	2.1395	2.1405	.0005	.0031	.0941	.8700
3192DRI	Cam Brg.	2-5	1.9487	1.9497	2.1295	2.1305	.0005	.0030	.0891	.9900
3193DRI	Cam Brg.	3-4	1.9487	1.9497	2.1195	2.1205	.0005	.0031	.0841	.9900
1412M	Cam Set		Ford	L4		Babbitt		Full Round Design		
3366DR	Cam Brg.	1	1.6531	1.6539	1.7750	1.7760	.0011	.0035	.0800	.7900
3367DR	Cam Brg.	2	1.7563	1.7571	1.8780	1.8790	.0009	.0033	.0800	.6700
3300DhA		3	1.// IZ	1.7720	1.0930	1.0940	.0010	.0034	.0000	.0230
1414M	Cam Set		0 1020	429, 460	2 2/05	2 2505	0007	Full Round Design	0620	5950
3301DHI			2.1230	2.1240	2.2490	2.2303	.0007	.0033	.0020	.3030
1422M 3466DR	Cam Set	1	2 1300	V8 2 1310	2 2500	2 2600	001/		0630	1 3800
3467DB	Cam Brg.	1	2.1300	2.1310	2.2590	2.2600	.0014	.0040	.0630	1.0000
1443M	Cam Set		Ford	14		Babbitt		Full Bound Design		
3547DR	Cam Brg.		1.7713	1.7720	1.9006	1.9016	.0010	.0039	.0638	.6880
1445M	Cam Set		Ford	390, 427, 428		Babbitt		Full Round Design		
2301DRA	Cam Brg.	1	2.1238	2.1248	2.3095	2.3105	.0023	.0049	.0913	.6250
2302DR	Cam Brg.	2	2.1238	2.1248	2.2945	2.2955	.0015	.0047	.0841	.6250
2303DR	Cam Brg.	3	2.1238	2.1248	2.2795	2.2805	.0013	.0039	.0766	.6200
2303DRI	Cam Brg.	4	2.1238	2.1248	2.2645	2.2655	.0013	.0039	.0691	.6200
2304Dh		5	2.1200	2.1240	2.2490	2.2000	.0013	.0039	.0010	.0000
1451M 1841DBI	Cam Set	1		1 0000	2 1205	2 1305	0015		0645	8650
2132DB	Cam Brg	2	1.9900	1.9830	2.1295	2.1305	0015	0041	0645	7600
2133DR	Cam Brg.	4	1.9510	1.9520	2.0825	2.0835	.0015	.0041	.0645	.7600
2133DRI	Cam Brg.	3	1.9670	1.9680	2.0985	2.0995	.0015	.0041	.0645	.7600
2134DR	Cam Brg.	5	1.5605	1.5615	1.6920	1.6930	.0015	.0041	.0645	.9400
1453M	Cam Set		Chrysler	Big Block		Babbitt		Full Round Design		
2321DRI	Cam Brg.	1	1.9980	1.9990	2.1295	2.1305	.0015	.0041	.0645	.7500
2322DR 2323DP	Cam Brg.	2	1.9820	1.9830	2.1135	2.1145	.0015	.0041	.0645	.7500
2323DR	Cam Brg	3 4	1.9070	1.9660	2.0900	2.0995	.0015	.0041	.0645	.0700 7470
2324DR	Cam Brg.	5	1.7480	1.7490	1.8795	1.8805	.0015	.0041	.0645	.7500
1459M	Cam Set		Ford	L4		Babbitt		Full Round Design		
2786DRA	Cam Brg.	1	1.5597	1.5605	1.6885	1.6895	.0014	.0038	.0633	.7900
2787DRA	Cam Brg.	2	1.5597	1.5605	1.6885	1.6895	.0014	.0038	.0633	.6850
2788DRA	Cam Brg.	3	1.5597	1.5605	1.6885	1.6895	.0014	.0038	.0633	.7900
1463M	Cam Set		Chevrolet	V6		Babbitt		Full Round Design		
2021DR	Cam Brg.	1	1.8682	1.8692	2.0190	2.0210	.0007	.0043	.0744	.7400
2022DR 2023DR	Cam Brg	2-4	1.6082	1.8692	2.0090	2.0110	.0010	.0052	0644	.7450 7400
1466M	Cam Set	0	Oldsmobile	V8	1.0000	Babbitt		Full Bound Design	.0011	
3046DRI	Cam Bro	1	2.0365	2.0373	2,1680	2.1695	.0015	.0044	.0646	6930
3047DR	Cam Brg.	2	2.0165	2.0173	2.1480	2.1495	.0012	.0050	.0646	.6880
3048DR	Cam Brg.	3	1.9965	1.9973	2.1280	2.1295	.0012	.0050	.0646	.6880
3048DRI	Cam Brg.	4	1.9765	1.9773	2.1080	2.1095	.0012	.0050	.0646	.6880



BEARING SET	DATA		SHAFT, HOUSING, and CLEARANCE SPECIFICATIONS for STANDARD BEARINGS									
P/N	Set Contents	Pos.	Min. Shaft	Max. Shaft	Min. Housing	Max. Housing	Min. Clearance	Max. Clearance	Max. Wall	Max. Length		
1466M	Cam Set	F	Oldsmobile	V8	0.0000	Babbitt	0010	Full Round Design	0646	6990		
3049DR	Calli Brg.	C	Chrysler	Freil Block	2.0880	2.0695	.0012	.000	.0646	.0000		
1904IVI	Com Bra	1	1 0090	1 0000	0 1005	0 1205	0015		0645	9650		
	Calli Biy.	1	1.9900	1.9990	2.1290	2.1303	.0015	.0041	.0040	.0000		
2104DN 2451DD	Calli Biy.	5	1.0000	1.0010	0.1125	0.1145	.0015	.0041	.0040	.9400		
3431DR	Calli Big.	2	1.9620	1.9630	2.1130	2.1140	.0015	.0041	.0040	.0200		
3432DN 3452DD	Cam Brg	3	1.9070	1.9000	2.0900	2.0995	.0015	.0041	.0040	.0150		
3433Dh	Gain big.	4	1.9510	1.9020	2.0025	2.0000	.0015	.0041	.0045	.0150		
1755M	Cam Set		Buick	V6		Babbitt		Full Round Design				
2556DR	Cam Brg.		1.8682	1.8692	1.9990	2.0010	.0010	.0052	.0644	.7200		
1874M	Cam Set		Chevrolet	Big Block		Babbitt		Bowtie Blocks				
3193DRI	Cam Brg.	1-5	1.9487	1.9497	2.1195	2.1205	.0005	.0031	.0841	.9900		
1888M	Cam Set		Chevrolet	Small Block		Babbitt		Full Round Design				
4511DR	Cam Brg.	1-5	2.1650	2.1669	2.3276	2.3295	.0010	.0038	.0801	.6300		
4512DR	Cam Brg.	2-4	2.1650	2.1669	2.3177	2.3197	.0010	.0038	.0752	.6300		
4513DR	Cam Brg.	3	2.1650	2.1669	2.3079	2.3098	.0010	.0038	.0702	.6300		
1898M	Cam Set		Chevrolet	346 LS1		Babbitt		Full Round Design				
4509DB	Cam Brg	1-5	2 165	2 1669	2 3473	2 3492	0004	0063	0899	6496		
4511DB	Cam Brg	2-4	2 165	2 1669	2.3276	2 3295	001	0038	0801	6300		
4513DB	Cam Brg	3	2 165	2 1669	2 3079	2 3098	001	0038	0702	6300		
01001	Oam Cat	Ŭ	Ohermelet	Cmall Blook	2.0070			Full Decimal Decima	.0702			
2100M	Cam Set	1		5 Mail Block	2 0100		0007		0744	7400		
7100DR	Carli Brg.	1	1.0002	1.0092	2.0190	2.0210	.0007	.0043	.0744	.7400		
7100DR	Calli Big.	2-0	1.0002	1.0092	2.0090	2.0010	.0010	.0052	.0694	.7450		
7107Dh	Calli Biy.	3-4	1.0002	1.0092	2.0000	2.0010	.0007	.0043	.0044	.7400		
2101M	Cam Set		Chevrolet	Big Block		H/D Babbitt		Full Round Design				
7108DR	Cam Brg.	1	1.9487	1.9497	2.1395	2.1405	.0005	.0031	.0941	.8600		
7109DR	Cam Brg.	2-5	1.9487	1.9497	2.1295	2.1305	.0005	.0031	.0891	.9900		
7110DR	Cam Brg.	3-4	1.9487	1.9497	2.1195	2.1205	.0005	.0031	.0841	.9900		
2102M	Cam Set		Ford	Small Block		H/D Babbitt		Full Round Design				
7112DR	Cam Brg.	2	2.0805	2.0815	2.1880	2.1890	.0050	.0095	.0602	.6600		
7113DR	Cam Brg.	3	2.0805	2.0815	2.1730	2.1740	.0050	.0095	.0602	.6600		
7114DR	Cam Brg.	4	2.0805	2.0815	2.1580	2.1590	.0050	.0095	.0602	.6600		
7115DR	Cam Brg.	5	2.0805	2.0815	2.1430	2.1440	.0050	.0095	.0602	.6600		
7118DR	Cam Brg.	1	2.0805	2.0815	2.2035	2.2050	.0050	.0095	.0602	.6600		
2104M	Cam Set		Ford	429, 460		H/D Babbitt		Full Round Design				
7116DR	Cam Brg.	1-5	2.1238	2.1248	2.2495	2.2505	.0007	.0033	.0620	.5850		
2106M	Cam Set		Chevrolet	Small Block		H/D Babbitt		Full Bound Design				
7107DB	Cam Brg	1-5	1 8682	1 8692	2 0000	2 0010	0007	0043	0644	7400		
		15	1.0002	1.0032	2.0000	2.0010	.0007	.0040	.00++	.7400		
2111M	Cam Set		Chrysler	Big Block		H/D Babbitt		Full Round Design				
7128DR	Cam Brg.	1	1.9980	1.9990	2.1295	2.1305	.0015	.0041	.0645	.7500		
7129DR	Cam Brg.	2	1.9820	1.9830	2.1135	2.1145	.0015	.0041	.0645	./500		
7130DR	Cam Brg.	3	1.9670	1.9680	2.0985	2.0995	.0015	.0041	.0645	.6700		
7131DR	Cam Brg.	4	1.9510	1.9520	2.0825	2.0835	.0015	.0041	.0645	./4/0		
7132DR	Cam Brg.	5	1.7480	1.7490	1.8795	1.8805	.0015	.0041	.0645	.7500		
8-1555CPA	Rod Set		Pontiac	V8		Overplated Copp	per-Lead Alloy					
1555CPA	Rod Brg.		2.2488	2.2498	2.3745	2.3750	.0009	.0034	.0619	.8860		
8-2020CP	Rod Set		Chevrolet	Small Block		Overplated Copp	per-Lead Alloy					
2020CP	Rod Brg.		1.9990	2.0000	2.1247	2.1252	.0005	.0032	.0621	.8420		
8-2130CP	Rod Set		Chrvsler	Small Block		Overplated Copp	er-Lead Allov					
2130CP	Rod Brg.		2.1240	2.1250	2.2500	2.2507	.0005	.0029	.0624	.8480		
9-000CD	Pod Sot		Chryclar	Rig Block		Overplated Copp	or-Load Allov					
2320CP	Rod Bra		2 37/10	2 3750	2 5000	2 5005		0020	0623	0320		
202001	nou big.		2.0740	2.07.00	2.5000	2.0000	.0005	.0023	.0020	.3020		
8-2500RAA	Hod Set		Buick	V8	0.40.7	A-Series alumin	num bearings			=		
2500RAA	Rod Brg.		1.9995	2.0005	2.1247	2.1252	.0005	.0028	.0620	.7420		
8-2555CP	Rod Set		Chevrolet	Small Block		Overplated Copp	per-Lead Alloy					
2555CP	Rod Brg.		2.0990	2.1000	2.2247	2.2252	.0005	.0028	.0622	.8420		
8-2600CP	Rod Set		Ford	Small Block		Overplated Copp	er-Lead Allov					
2600CP	Rod Bra.		2.1228	2.1236	2.2390	2.2398	.0005	.0022	.0577	.7260		
0.0045	Ded Cet		Olderschill	1/0	2.2000	A Casico alumit	heading -					
0-3045A	HOU SET		Olasmobile	0 1040	0.0405	A-Series alumin	ium bearings	0000	0610	0010		
3043A	nuu biy.		2.1238	2.1248	2.2495	2.2000	.0009	.0039	.0019	.0310		
8-3190A	Rod Set		Chevrolet	Big Block		A-Series alumin	num bearings					
3190A	Rod Brg.		2.1990	2.2000	2.3247	2.3252	.0005	.0028	.0622	.8920		



BEARING SET	DATA	SHAFT	, HOUSING, and CLE	ARANCE S	PECIFICATIONS for	STANDAR	RD BEARINGS		
P/N	Set Contents	Min. Pos. Shaft	Max. Shaft	Min. Housina	Max. Housing	Min. Clearance	Max. Clearance	Max. Wall	Max. Length
8-3230CP	Rod Set	Ford	390, 427, 428		Overplated Copper-	-Lead Allov			g
3230CP	Rod Brg.	2.4380	2.4388	2.5907	2.5915	.0005	.0025	.0755	.7340
8-3310CPA 3310CPA	Rod Set Rod Brg.	AMC 2.0948	290, 304, 343, 36 2.0955) 2.2080	Overplated Copper- 2.2085	-Lead Alloy .0005	.0027	.0560	.8370
8-3320CP	Rod Set	Buick	V8		Overplated Copper-	-Lead Alloy			
3320CP	Rod Brg.	2.2490	2.2500	2.3740	2.3745	.0005	.0027	.0619	.8260
3360CPA 3360CPA	Rod Set Rod Brg.	2.4992	4 29, 460 2.5000	2.6522	2.6530	.0005	.0024	.0762	.8660
8-3380CPA 3380CPA	Rod Set Rod Brg.	Ford 2.3103	Small Block 2.3111	2.4265	Overplated Copper- 2.4273	Lead Alloy .0005	.0026	.0577	.7260
8-3385CP 3385CP	Rod Set Rod Bra.	AMC 2.2485	V8 2.2492	2.3745	Overplated Copper- 2.3750	-Lead Alloy .0007	.0029	.0623	.8050
8-3400CP	Rod Set	Ford	Cleveland/Modifi	ed V8	Overplated Copper-	-Lead Alloy			
3400CP	Rod Brg.	2.3103	2.3111	2.4361	2.4369	.0005	.0026	.0625	.7260
4-3545A 3545A	Rod Set Set Only	Ford 2.0465	2.3L OHC 2.0472	2.1720	A-Series aluminur 2.1728	n bearings .0005	.0026	.0624	.8000
4-2785CP 2785CP	Rod Set Rod Brg.	Ford 1.9370	L4 1.9375	2.0825	Overplated Copper- 2.0830	-Lead Alloy .0005	.0024	.0723	.8800
6-2500RAA	Rod Set	Buick	V6	2 12/7	A-Series aluminur	n bearings	0028	0620	7420
6-3760A	Rod Set	Buick	V6	2.1247	A-Series aluminur	n bearings	.0020	.0020	.7420
3760A	Rod Brg.	2.2487	2.2495	2.3740	2.3745	.0007	.0030	.0619	.7210
7025CH	Rod Pair Rod Brg.	Chevrolet 1.9984	V6 1.9993	2.1245	Super Duty Alloy 2.1255	.0014	.0037	.0618	.7185
4-7180CH 7180CH	Performance Rod Set Set Only	Ford 2.0465	L4 2.0472	2.1720	Super Duty Alloy 2,1728	.0005	.0026	.0624	.8000
6-7085CH	Performance Rod Set	Chevrolet	V6	0.0747	Super Duty Alloy	0010	0025	0600	7520
6-7120CH	Performance Bod Set	Z.2492 Buick	V6	2.3/4/	Super Duty Allov	.0010	Increased Length	.0020	.7550
0 / 120011	Set only	2.2487	2.2495	2.3738	2.3745	.0005	.0030	.0619	.7350
8-7040CH	Performance Rod Set Set only	Oldsmobile 2.4988	V8 2.4998	2.6243	Super Duty Alloy 2.6250	.0005	.0032	.0620	.8310
8-7050CH	Performance Rod Set	Pontiac	V8 2 2498	2 3745	Super Duty Alloy	0009	0034	0619	8860
8-7065CH	Performance Rod Set	Chevrolet	Small Block	0.1047	Super Duty Alloy	0005	0000	0001	7050
8-70650HA	Set only Performance Rod Set	Chevrolet	2.0000	2.1247	2.1252 Super Duty Alloy	.0005	.0030	.0621	.7950
0-7003011A	Set only	1.9990	2.0000	2.1247	2.1252	.0005	.0030	.0621	.7950
C8-7065CH C87065CH	Performance Rod Set Set only	Chevrolet 1.9990	Small Block 2.0000	2.1247	Super Duty Alloy 2.1252	; Coated .0005	.0030	.0621	.7950
C8-7065CHA	Performance Rod Set	Chevrolet	Small Block		Super Duty Alloy	; Coated			
C87065CHA	Set only	1.9990	2.0000	2.1247	2.1252	.0005	.0030	.0621	.7950
8-7095CH	Performance Rod Set Set only	Chevrolet 2.0990	Small Block 2.1000	2.2247	Super Duty Alloy 2.2252	.0005	.0028	.0622	.8420
8-7100CH	Performance Rod Set Set only	Chevrolet 2.0990	Small Block 2.1000	2.2247	Super Duty Alloy 2.2252	.0005	Chamfer .0028	.0622	.8420
8-7100CHA	Performance Rod Set	Chevrolet	Small Block	2 22/17	Super Duty Alloy	0005	Chamfer; Dowel	0622	8420
C8-7100CH	Performance Rod Set	Chevrolet	Small Block	2.2241	Super Duty Alloy	; Coated	Chamfer	.0022	.0420
C87100CH	Set only	2.0990	2.1000	2.2247	2.2252	.0005	.0028	.0621	.8420
C87100CHA C87100CHA	Set only	2.0990	2.1000	2.2247	2.2252	.0005	.0028	.0621	.8420
8-7125CH	Performance Rod Set Set Only	Chrysler 2.1240	Small Block 2.1250	2.2500	Super Duty Alloy 2.5070	.0005	.0029	.0624	.8475
7133SHC	Performance Rod Bearing	Chrysler 2 7495	Big Block	2 9425	2 9430	0005	0025	0958	1 2240
8-7135CH	Performance Rod Set	Chrysler	Big Block	0.5000	Super Duty Alloy		Chamfer		1.2270
8-715504	Set only Performance Pod Sot	2.3/40	2.3750	2.5000	2.5005 Super Duty Allow	.0004	.0029	.0623	.9090
5-11550H	Set only	2.3103	2.3111	2.4265	2.4273	.0005	.0026	.0577	.7210



BEARING SET	DATA		SHAFT,	HOUSING, and CLE	ARANCE S	PECIFICATIONS for	STANDAF	RD BEARINGS	Max	Max
P/N	Set Contents	Pos.	Shaft	Max. Shaft	Min. Housing	Max. Housing	Clearance	e Clearance	Wax. Wall	Length
C8-7155CH C87155CH	Performance Rod Set Set only		Ford 2.3103	Small Block 2.3111	2.4265	Super Duty Alloy 2.4273	; Coated .0005	.0018	.0577	.7210
8-7160CH 7160CH	Performance Rod Set Set only		Ford 2.1228	Small Block 2.1236	2.2390	Super Duty Alloy 2.2398	.0008	.0037	.0568	.7210
C8-7160CH C87160CH	Performance Rod Set Set only		Ford 2.1228	Small Block 2.1236	2.2390	Super Duty Alloy 2.2398	; Coated .0008	.0037	.0568	.7210
8-7170CH	Performance Rod Set Set only		Ford 2.4380	390, 427, 428 2.4388	2.5907	Super Duty Alloy 2.5915	.0009	.0035	.0755	.7340
8-7175CH	Performance Rod Set Set only		Ford 2.3103	Cleveland/Modifie 2.3111	ed V8 2.4261	Super Duty Alloy 2.4269	.0005	.0026	.0625	.7260
8-7185CH	Performance Rod Set Set only		Ford 2.4992	429, 460 2.5000	2.6522	Super Duty Alloy 2.6530	.0005	.0026	.0761	.8660
8-7190CH 7190CH	Performance Rod Set Set only		Chevrolet 1.8885	Small Block 1.8890	2.0150	Super Duty Alloy 2.0155	.0006	.0026	.0627	.7270
4-7195CH 7195CH	Performance Rod Set Set only		Honda 1.8880	2.2L SOHC, DOHC 1.8897	2.0079	Super Duty Alloy 2.0087	.0005	.0022	.0594	.7470
8-7195CH 7195CH	Performance Rod Set Set only		Chevrolet 1.8880	Small Block 1.8897	2.0079	Super Duty Alloy 2.0087	.0005	Honda .0022	.0594	.7470
C8-7195CH C87195CH	Performance Rod Set Set only		Chevrolet 1.8880	Small Block 1.8897	2.0079	Super Duty Alloy 2.0087	; Coated .0005	Honda .0022	.0594	.7470
8-7200CH 7200CH	Performance Rod Set Set only		Chevrolet 2.1988	Big Block 2.1998	2.3247	Super Duty Alloy 2.3252	.0009	.0034	.0620	.8650
8-7200CHA 7200CHA	Performance Rod Set Set only		Chevrolet 2.1988	Big Block 2.1998	2.3247	Super Duty Alloy 2.3252	.0009	Chamfer; Dowel .0034	.0620	.8650
8-7200SHA 7200SHA	Performance Rod Set Set only		Chevrolet 2.1988	Big Block 2.1998	2.3247	Babbitt 2.3252	.0009	Chamfer; Dowel .0034	.0620	.8650
C8-7200CH C87200CH	Performance Rod Set Set only		Chevrolet 2.1988	Big Block 2.1998	2.3247	Super Duty Alloy 2.3252	; Coated .0009	.0034	.0620	.8650
C8-7200CHA C87200CHA	Performance Rod Set Set only		Chevrolet 2.1988	Big Block 2.1998	2.3247	Super Duty Alloy 2.3252	; Coated .0009	.0034	.0620	.8650
8-7250CH 7250CH	Performance Rod Set Set only		Ford 2.0860	4.6L 2.0867	2.2388	Super Duty Alloy 2.2396	.0001	.0026	.0760	.8260
8-7260CH 7260CH	Performance Rod Set Set only		Buick 2.2490	V8 455 2.2500	2.3740	Super Duty Alloy 2.3745	.0005	.0027	.0619	.8260
8-7300CHA 7300CHA	Performance Rod Set Set only		Chrysler 2.3740	Big Block 2.3750	2.5000	Super Duty Alloy 2.5005	.0014	Chamfer; Dowel .0035	.0618	.8890
8-7300SHA 7300SHA	Performance Rod Set Set only		Chrysler 2.3740	Big Block 2.3750	2.5000	Babbitt 2.5005	.0014	Chamfer; Dowel .0035	.0618	.8840
8-7310CHA 7310CHA	Performance Rod Set Set only		Chevrolet 1.8885	Big Block 1.8890	2.0150	Super Duty Alloy 2.0155	.0006	.0026	.0627	.8960
8-7315CH 7315CH	Performance Rod Set Set only		Chevrolet 1.8885	Big Block 1.8890	2.0150	Super Duty Alloy 2.0155	.0006	.0026	.0627	.7920
1460M 3548DR 3549DR	Aux. Shaft Set Aux Brg. Aux Brg.	1 2	Ford 1.6520 1.6520	L4 1.6530 1.6530	1.7970 1.7770	Babbitt 1.7980 1.7780	.0012 .0012	Full Round Design .0044 .0044	.0714 .0614	.5050 .5050
1834V20NH	Pin Bushing		Chevrolet	Small Block		Bronze		No Oil Hole; Extra M	laterial	
2134Y	Pin Bushing		Chrysler	Small Block		Bronze				
2304V	Pin Bushing		Ford	390, 427, 428		Bronze				
2304VNH	Pin Bushing		Chevrolet	Big Block		Bronze		No Oil Hole		
2789Y20	Pin Bushing		Ford	L4		Bronze				



Design Characteristics

Speed-Pro provides a broad selection of precision engineered performance camshafts. Although there are some pretty serious racing cams in our line, our primary focus is on entry level racing and street performance. Speed-Pro has cam profiles that will deliver added "grunt" for a tow vehicle, add some extra "snap" to your daily driver, or generate maximum power for racing applications. We offer a wide variety of camshaft lifter designs as well – hydraulic, solid, hydraulic roller, and solid roller. Each cam is specifically designed to work with the specified lifter type – they cannot be interchanged. Below we will list the various types of cams available, their particular advantages, and their recommended uses.

Mechanical (Solid) Lifter Cams

The advantages of mechanical (or solid) lifter cams over comparable hydraulic cams are an extended operating RPM range, and the potential for more aggressive cam profiles. Mechanical lifters are not subject to the RPM limitations associated with hydraulic cams, but are equally inexpensive, thus many racing applications will use them. Mechanical lifter camshafts will usually feature wilder profiles than hydraulics, to better utilize the high RPM capabilities the lifters provide. Negatives associated with mechanical lifters include the fact that they require some form of valvetrain lash adjustment to maintain a given amount of "lash", or clearance. These cams will also be comparatively noisy, and will require regular maintenance to keep lash within specifications.

Mechanical Roller Cams & Lifters

These are the products of choice for professional racing effort – where the rules permit their use. Mechanical (or solid) roller lifters offer extremely high RPM potential when accompanied with the correct valvetrain

hardware. The roller design also accommodates lift and duration profiles unobtainable with flat bottomed lifters. Negatives that accompany mechanical roller lifter combinations are the same

as those for standard mechanical lifters, along with a high initial cost. An added downside has more to do with usage of these cams – these combinations tend to be very highly stressed, and must have frequent maintenance to keep them at peak efficiency.

Hydraulic Roller Cams & Lifters

This combination is the result of continued effort to realize efficiency improvements in valvetrain componentry by the Original Equipment Manufacturers. By incorporating the roller concept used in racing applications to reduce friction, and adding to it the hydraulic lifter's ability to operate quietly without frequent maintenence, we have what is likely the best possible combination for a street driven vehicle. Hydraulic Roller combinations are guiet, and require little or no service after the initial installation. Due to the roller design, these cams can offer lift and duration profiles unobtainable with non-roller type lifters. The roller design gives a significant reduction in friction, resulting in a power and mileage increase independent of the cam's profile. The few downsides for the performance customer are a rather high initial cost and a low RPM ceiling due to the hydraulic lifter's weight and design.

Hydraulic Cams & Lifters

These are direct replacements for the cam and lifters that originally come in the vast majority of passenger cars and trucks. The greatest single advantage of hydraulic lifters is that they are self adjusting to eliminate valvetrain noise. They are inexpensive and reliable. Installation is usually quite straight-forward, with a simple initial adjustment to provide .040-.060 of lifter preload, and little or no maintenance afterward. Cams intended for use with hydraulic lifters reflect the characteristics of the lifter's design, with an emphasis on low end and midrange performance. Most cams targeted for street and RV performance are of the hydraulic lifter design.

The only downside to traditional hydraulic lifter cams lies in the inherent RPM limitations which they are subject to. Traditional hydraulic lifters lose their ability to maintain valve adjustment and control beyond 6000 RPM. Speed-Pro offers special race hydraulic lifters that extend the functional operating range beyond 6500 RPM.





Speed-Pro Camshaft Performance Codes and Selection Guidelines

Speed-Pro Performance Camshafts are power coded in order to make cam selection easier. Each camshaft has been assigned a category which describes it's operating characteristics when installed in a particular engine. The categories start with Pro-1500, and extend through Pro-5000 in order of relative power potential.

The Pro-1500, Pro-2000, and Pro-3000 series of cams are specifically designed for street use. These cams will deliver a significant power increase when compared to most stock camshafts. They will allow the use of most power accessories, give acceptable idle quality, and perform well in day to day driving. These are the components recommended for use in a tow vehicle, a street rod, or a muscle car. When matched with the recommended Speed-Pro and Sealed Power parts from this catalog these cams will deliver reliable performance without the added maintenance and headaches associated with "all out" racing cams.

Select camshafts within this group have been granted an E.O. number, making them legal for carbureted, emission controlled applications. This legality does not mean that they will work with all computer controlled vehicles – aftermarket tuning aids such as PROM "chips" may be required to attain good driveability in certain cases – particularly with speed density type vehicle computer systems.

Pro-4000 series cams are for dual purpose, street/strip applications, as well as for limited racing applications. These are not legal for vehicles subject to emission control legislation. These cams are usually tractable enough to use in cars that see limited street duty, but are not intended for regular daily use. They will have a decidedly rough idle, and will generate lower manifold vacuum that may not allow for power accessories. As with any racing component, more frequent inspection of the valvetrain becomes necessary when using these parts.

Pro-5000 is our designation for "Competition Series" cams – these are true racing camshafts. Included are radical hydraulic and solid lifter grinds intended for bracket racing, oval track, and limited use street vehicles; along with high RPM roller lifter profiles that deliver the horsepower needed to win at the track. The uses of these cams require that the rest of the engine be upgraded to match their RPM and power capabilities. Most of these cannot be used with vacuum driven accessories such as power brakes. These parts are not emission legal and are not intended for street use. Pro-Street type vehicles can make use of these cams, but frequent valve lash and spring inspection will be necessary, and idle quality may be marginal.

A few general rules to follow:

- A larger displacement engine is less sensitive to idle and low end torque problems associated with large cams. As an example: if a 283 and a 350 used the same cam, the 350 would idle better.
- 2) A heavier vehicle should use a smaller cam to enhance low end torque and acceleration.
- 3) A solid lifter cam will idle better than a hydraulic having similar specs, a roller will be better yet.
- Use the matching springs and retainers for each application. We do not recommend the use of Rotocoils or valve rotating devices for performance applications.
- Always check for valve spring coil bind. You must have at least .060" of additional spring travel available at maximum valve lift.
- 6) Always check piston to valve clearance, you must have a minimum of .100" in all directions.
- 7) Always follow recommended break in procedures, and use Sealed Power's 55400 Assembly Lube. On flat tappet cams using double valve springs for increased pressure, we recommend breaking in the cam with the outer springs only and then installing the inners afterward.
- 8) If you are undecided between two camshafts, pick the smaller one. You'll always be better off!





Performance Camshaft Codes

Pro-1500

Idle Quality: Stock Power Range: 1000-3500 rpm (cruise @ 1600-2200 rpm) Axle Ratio: Stock up to 3.60 Exhaust: Headers and/or **Dual Exhaust Optional** Carburetion: Small 4 bbl. Optional Compression: 9.0:1 or less Transmission: Stock Automatic or Manual Application: Computer OK, Good for Towing, "One Step Up" from Most

Pro-2000

Idle Quality:	Good
Power Range:	1500-4500 rpm (cruise @ 1800-2600 rpm)
Axle Ratio:	3.00 to 4.00
Exhaust:	Small Tube Headers and Dual Exhaust Recommended
Carburetion:	Larger 2 bbl. or Small 4 bbl. Recommended
Compression:	9.5:1 or less
Transmission:	Stock Automatic or Manual
Application:	Computer OK, May Require Aftermarket "Chip"
	2-4 in. Vacuum Loss, Good Street Performance
Dro 2000	

Stock-Cams

Pro-3000

Idle Quality:	Good to Fair					
Power Range:	2000-4800 rpm (cruise @ 2400-3200 rpm)					
Axle Ratio:	3.20 to 4.20					
Exhaust:	Headers and Dual Exhaust Recommended					
Carburetion:	4 bbl. Recommended					
Compression:	9.0:1 to 10.3:1					
Transmission:	Automatic (Aftermarket Converter Optional) or Manual					
Application:	Computer Will Require Aftermarket "Chip"					
	3-6 in. Vacuum Loss, Good Street/Strip Performance					

Pro-4000

Idle Quality:	Fair to Moderately Rough
Power Range:	3200-6500 rpm
	(cruise @ 3800-5000 rpm)
Axle Ratio:	3.70 to 4.60
Exhaust:	Headers and Dual Exhaust Required
Carburetion:	4 bbl. Required
Compression:	10.0:1 to 11.0:1
Transmission:	Modified Automatic w/2500+ Stall Converter, or Manual
Application:	Significant Vacuum Loss, May Not Run Power Accessories,
	Limited High Performance Street/Strip Usage, Bracket Racing
Pro-5000	
Idle Quality:	Rough
Power Range:	3200-6500 rpm
Axle Ratio:	4.00 or Higher
Exhaust:	Headers and Low Restriction Exhaust Required
Carburetion:	Larger CFM 4 bbl. or Two 4bbls. Required
Compression:	10.5:1 or Higher
Transmission:	Race Automatic w/3500+ Stall Converter, or Manual
Application:	Valvetrain and Engine Must Be Modified for High RPM Use
	Used in Drag Racing, Oval Track



Emission Legal Performance Cams

Speed-Pro has released a series of high performance cams designed for performance enthusiasts looking to add a little extra power to their daily transportation.

CAMSHAFTS

Speed-Pro uses the latest computer generated cam lobe profiles to significantly increase horsepower, while still retaining low end torque and drivability, making these camshafts ideal for your daily driver, or for a tow vehicle.

We have seven grinds available – select the one which best meets your needs. Shorter duration cams are recommended for heavier vehicles and for smaller displacement engines. When installed per our recommendations, these cams are compatable with most carbureted vehicle's computer and emission control equipment. Aftermarket computer "chips" may be required to optimize performance.

The camshafts listed below have received Executive Order D-292-1 from the California Air Reasearch Board, making them legal for street use in '87 & earlier carbureted vehicles with small block Chevrolet engines (262-400 ci.d.).

Speed-Pro P/N	Va L	alve .ift	Dura @.	ation 050	Lobe Center
	intake	exhaust	intake	exhaust	
CS1103R stock idle, good low end torque	.398	.420	194	204	112
CS1107R stock idle, good low end torque	.398	.443	194	214	112
CS1104R stock idle, good low end torque	.414	.414	209	209	110
CS1014R stock idle, good low end torque	.420	.442	204	214	112
CS1105R stock idle, good low end torque	.435	.455	209	216	112
CS1028R good idle, good low to midrange torque	.444	.444	214	214	112
CS1106R good idle, good low to midrange torque	.443	.465	214	224	112



How To "Degree" a Camshaft

Most performance camshafts do not have to be degreed in order to work. Degreeing is a procedure used by engine builders to optimize engine output. It is a useful way to verify correct engine assembly, and to fine tune a racing combination. If you change the cam timing, be sure to recheck piston to valve clearance. The minimum clearance is .100".

Tools Required

The degreeing procedure requires a degree wheel, a pointer, a dial indicator, and a piston stop. The degree wheel and dial indicator are machine shop tools which must be purchased. The pointer may be purchased or fabricated from a piece of wire rod. The piston stop may also be fabricated.

The crankshaft, camshaft, timing chain, and the rod and piston for the number one cylinder must be installed in order to degree the cam. Mount the degree wheel to the front of the crankshaft. Install the pointer on the engine so that it points to the zero on the degree wheel when the number one piston is at the approximate top of its travel. This initial mounting location is only used to get "in the ballpark", the exact Top Dead Center position will be determined in our next step.

Establishing Top Center

The first task is to accurately locate the Top Dead Center (TDC) of piston travel in the number one cylinder. Although it is possible to do this with the heads on the engine, it is more easily done before they have been installed. Install the piston "stop" on the number one cylinder, and rotate the crankshaft until the piston contacts the stop. Mark this spot on the degree wheel, and then rotate the crankshaft in the opposite direction until it contacts the stop again. Note the degree wheel reading. Add up the number of degrees in the narrow angle separating the two points where the stop was reached, and divide the number by two. This number of degrees will tell you where to locate the center point in between the two positions. This center point position is the actual Top Dead Center (TDC). Mark this position on the degree wheel. Remove the piston stop and rotate the crankshaft until the TDC mark lines up with the pointer. Loosen the bolt holding the degree wheel, reposition the wheel so that the zero mark is perfectly lined up with the pointer, and tighten the mounting bolt.

Measuring the Relationship of the Camshaft to the Crankshaft

Once we have located Top Dead Center, we can compare the position of the camshaft to that of the crankshaft. Camshafts are designed so that the valves open and close at specific intervals as the crankshaft rotates. The relationship between the two shafts is expressed as the variance from designed specifications, in degrees. (Note – Most camshaft specifications are expressed in "crankshaft degrees." The crankshaft rotates twice for each single turn of the camshaft .)

The reference point used for comparison is the intake lobe centerline of the cam. This spot, on the cam's number one intake lobe, is located through a similar procedure to that used to find Top Dead Center. A solid lifter is placed on the number one cylinder's intake cam lobe. A steel ball. the same diameter as the pushrod end is set into the lifter. A dial indicator is set up against the ball, to read the lifter's vertical movement as the cam rotates. Set the indicator to read near zero at a point close to the maximum lift position of the cam lobe. Rotate the cam through the high part of the lobe, noting on the degree wheel the two spots where a reading of .050 below maximum lift appear on the dial indicator, once on the lifter's way "up" on the lobe, the other on the way "down." The lobe's centerline will be located in the exact center of the two equal indicator reading points. (Note - This may not correspond to the point of maximum lift.) This centerline's position, as indicated on the degree wheel, can be compared to specifications.

A camshaft which specifies the intake centerline to be at 108 degrees after TDC, but which is at 104 degrees after TDC when checked, is considered four degrees "Advanced." If the same cam checked out at 110 degrees after TDC, it would be two degrees "Retarded." Advancing the cam from specifications will improve lower RPM performance at the cost of high speed power. Retarding the cam will enhance top end power, but will sacrifice low speed torque. While cam timing adjustment can be a useful tuning aid, it is not a substitute for correct camshaft selection. Speed-Pro offers timing sets featuring multiple keyways, which permit altering the cam timing without the use of fragile offset keys or bushings.



Basic Camshaft Terminology and Definitions

CAMSHAFTS

Base Circle

The assumed diameter of the cam lobe if there were zero lift

Cam Lift and Valve Lift



Cam Lift is the difference in dimension from the base circle-to the "tip" of the cam lobe.

Valve Lift is the height that the valve moves off of it's seat. Valve lift is calculated by multiplication of cam lift by the rocker arm ratio, minus valve lash (clearance). Maximum lift is usually limited by valve spring dimensions and by clearance between the valve and the piston.

Duration and Overlap

Duration is the amount of time, expressed in crankshaft degrees, that the valve is held open. Duration is always measured at some amount of lift, commonly .050". Longer duration camshafts generally perform better at high RPM. Valve overlap is a term descibing the amount of time in degrees that both valves are open simultaneously. Cams with more overlap are also intended for high RPM use.



Lobe Separation Angle

Expressed in degrees, the lobe seperation angle determines idle quality and torque characteristics. Tighter (108°-110°) makes more power, but idles rougher.





Performance Cams – Numerical Listing



			Lifter Cam Lift Valve Lift		Duration							
			Lifter	Can	n Lift	Valv	/e Lift	Dur	ation	Lobe	Over-	Cam
P/N	Mfgr.	Engine	Туре	Int.	Exh.	Int.	Exh.	.050 Lift	.006 Lift	C/L	lap	Series
CS-108R	Ford	Small Block	HYD	.288	.288	.460	.460	218/218	298/298	113	62	Pro-3000
CS-112R	Chevrolet	Small Block	HYD	.291	.291	.436	.436	224/224	300/300	108	84	Pro-3000
CS-113R	Chevrolet	Small Block	MECH	.2625	.2665	.395	.401	228/230	270/270	110	66	Pro-5000
CS-118R	Chevrolet	Small Block	MECH	.3227	.3227	.485	.485	254/254	295/295	114	86	Pro-4000
CS-165R	Chevrolet	Big Block	MECH	.306	.306	.520	.520	242/242	309/295	114	98	Pro-4000
CS-173B	Ford	Cleveland	HYD	292	292	505	505	219/219	308/308	114	62	Pro-3000
CS-175B	Chevrolet	Big Block	HYD	2941	2971	500	505	222/235	306/322	115	88	Pro-3000
CS-176B	Oldemobile	V8	HYD	2064	2964	.300	.303	222/200	322/322	113	82	Pro-5000
CS-170R	Chevrolet	Small Block		2004	2004	.4/7	.474	202/202	200/200	11/	78	Pro-3000
CS-19/IP	Chovrolot	Small Block		290	.230	420	.++7 /20	212/222	205/205	114	76	Pro 2000
00 105P	Chevrolet			.200	.200	.429	.429	210/210	295/295	110	75	F10-3000
CS-185R	Chevrolet	Small Block	HYD	.302	.302	.453	.453	230/230	304/304	114	55	Pro-4000
CS-186R	Chevrolet	Small Block	HYD	.320	.320	.480	.480	230/230	287/287	109	74	Pro-5000
CS-18/R	Chevrolet	Small Block	HYD	.340	.340	.510	.510	244/244	318/318	108	94	Pro-5000
CS-189R	Chevrolet	Small Block	MECH	.3863	.3863	.557	.557	274/274	312/312	110	92	Pro-5000
CS-191R	Chevrolet	Big Block	HYD	.339	.339	.576	.576	246/246	304/304	110	84	Pro-4000
CS-193R	Ford	Small Block	HYD	.291	.291	.466	.466	224/224	304/304	110	84	Pro-3000
CS-195R	Ford	Small Block	HROL	.308	.319	.493	.510	212/222	289/299	112	60	Pro-3000
CS-196R	Ford	429, 460	HYD	.2862	.2862	.495	.495	218/218	299/299	110	79	Pro-3000
CS-198R	Oldsmobile	V8	HYD	.310	.325	.496	.520	224/234	300/310	112	71	Pro-3000
CS-644	Chrysler	Small Block	HYD	.2861	.295	.429	.442	210/220	279/290	114	51	Pro-3000
CS-650	Ford	Cleveland	HYD	278	283	481	490	206/221	287/307	115	63	Pro-2000
CS-661	Chrysler	Big Block	HYD	299	309	449	464	214/225	292/309	115	46	Pro-3000
CS-760	Ford	Small Block	HROI	278	278	445	445	210/210	279/279	115	49	Pro-3000
CS-100/P	Chavralat	Big Block		.270	270	120	161	100/200	260/070	110	40	Pro. 1500
CS-1004R	Cheviolet	DIY DIUCK		.200	.273	.439	.404	190/200	200/272	110	40	F10-1500
CS-1000R	Chrysler	Small Block		.280	.280	.420	.420	204/204	2/8/2/8	110	50	Pro-2000
CS-1010R	Ford	Cleveland	HYD	.280	.280	.484	.484	208/208	284/284	111	62	Pro-2000
CS-1011R	Ford	390, 427, 428	HYD	.295	.295	.510	.510	214/214	292/292	110	60	Pro-3000
CS-1013R	Chevrolet	Small Block	HYD	.295	.310	.443	.465	214/224	288/298	112	69	Pro-3000
CS-1014R	Chevrolet	Small Block	HYD	.280	.295	.420	.443	204/214	278/288	112	51	Pro-2000
CS-1015R	Chevrolet	Big Block	HYD	.295	.310	.501	.527	214/224	292/302	112	61	Pro-3000
CS-1016R	Buick	V6	HYD	.280	.295	.448	.472	204/214	280/290	112	51	Pro-2000
CS-1019B	Chrysler	Small Block	HYD	295	.310	443	465	214/224	288/298	112	61	Pro-3000
CS-1020B	Ford	Small Block	HYD	295	.310	472	496	214/224	290/300	112	71	Pro-3000
CS-1021R	Ford	Cleveland		205	310	510	536	214/224	202/302	112	61	Pro-3000
CS-1027	Pontiao			205	210	.010	.000	014/004	202/002	112	61	Pro 2000
CS-1022R	Oldomobilo	V0		.295	.010	.443	.405	214/224	200/290	112	61	Pro 2000
00 1004D	Oldsmobile	VO		.290	.310	.472	.490	214/224	290/300	112	51	P10-3000
CS-1024R	Olasmobile	V8	HID	.280	.295	.448	.472	204/214	280/290	112	51	Pro-2000
CS-1025R	Ford	390, 427, 428	HYD	.295	.310	.510	.536	214/224	292/302	112	61	Pro-3000
CS-1026R	AMC	V8	HYD	.280	.295	.448	.472	204/214	280/290	110	55	Pro-2000
CS-1029R	Chevrolet	Big Block	HYD	.270	.270	.459	.459	204/208	298/299	112	68	Pro-2000
CS-1030R	Chevrolet	V6	HYD	.273	.273	.410	.410	202/213	269/284	113	52	Pro-2000
CS-1032R	Chevrolet	V6	HYD	.280	.280	.420	.420	208/208	280/280	110	60	Pro-2000
CS-1033R	Chevrolet	L6; 230, 250	HYD	.265	.280	.464	.490	194/204	272/282	110	45	Pro-1500
CS-1038R	Pontiac	V8	HYD	.280	.295	.420	.443	204/214	278/288	110	55	Pro-2000
CS-1043M	Chevrolet	Small Block	HYD	.2671	.2733	.400	.410	202/213	269/284	110	58	Marine
CS-1047M	Chevrolet	Big Block	HYD	300	300	510	510	224/224	293/293	115	62	Marine
CS-1049M	Chevrolet	V6	HYD	269	2764	404	.414	202/207	269/271	112	45	Marine
CS-1051M	Chevrolet	VG	HROI	260	.2704	404	/10	202/207	270/28/	112	45 55	Marino
CS-1062P	Chevrolet	Small Blook	HVD	210	320	404	.410	202/210	304/297	110	80	Pro-2000
CS-1062D	Ford	Small Plock		.012	.320	.400	.400	220/231	207/201	110	70	Pro-3000
00 1003H	Folu			.2002	.2907	.400	.404	210/224	297/304	110	13	Pro-0000
CS-1064R	Fora	Small Block	HYD	.286	.302	.458	.483	218/230	297/307	110	81	Pro-3000
CS-1066R	Ford	Small Block	HYD	.260	.278	.416	.444	197/209	280/293	114	60	Pro-2000
CS-1068M	Chevrolet	L4 181 Marine	HYD	.2529	.2529	.443	.443	204/204	281/281	109	57	Marine
CS-1069R	AMC	L6	HYD	.280	.280	.421	.421	208/208	280/280	112	56	Pro-2000
CS-1072R	Chevrolet	Big Block	HROL	.295	.300	.502	.510	216/228	288/300	112	70	Pro-3000
CS-1075R	Chevrolet	Big Block	HROL	.330	.340	.561	.578	236/246	316/324	110	100	Pro-5000
CS-1079R	Chevrolet	Small Block	HROL	.290	.308	.433	.462	198/210	273/288	112	57	Pro-2000
CS-1080R	Chevrolet	Small Block	HROL	.308	.313	.462	.470	210/215	288/284	110	68	Pro-3000
CS-1081B	Chevrolet	Small Block	HBOI	.320	.320	.480	.480	230/230	306/306	108	90	Pro-5000
CS-1084B	Ford	Small Block	HYD	280	295	448	472	204/214	280/290	112	51	Pro-2000
CS-1085P	Ford	Clavaland	HVD	280	205	191	510	204/214	282/202	110	51	Pro-2000
CS-1005H	Ford	120 160		200	205	.404 /0/	510	204/214	202/202	110	51	Pro-2000
CC 1000H	Chauralat	423,400		.200	.290	.404	010.	204/214	202/292	112	1C	F10-2000
05-108/H	Chevrolet	VO Dia Dia di	HIU	.201	.296	.420	.444	204/214	2/0/200	112	51	Pro-2000
CS-1088R	Chevrolet	BIG Block	HYD	.280	.295	.476	.501	204/214	282/292	112	51	Pro-2000
CS-1093M	Chevrolet	Big Block	HYD	.281	.296	.476	.496	214/218	289/302	115	64	Marine
CS-1095R	Chevrolet	Small Block	HYD	.300	.307	.450	.460	224/224	291/287	114	60	Pro-3000
CS-1098R	Chrysler	Big Block	HYD	.280	.295	.420	.443	204/214	278/288	112	51	Pro-2000
CS-1102R	Ford	390, 427, 428	HYD	.280	.295	.484	.510	204/214	282/292	112	51	Pro-2000
CS-1103R	Chevrolet	Small Block	HYD	.265	.280	.398	.420	194/204	268/278	112	41	Pro-1500
CS-1104B	Chevrolet	Small Block	HYD	.276	.276	.414	.414	209/209	273/273	110	45	Pro-2000
CS-1105P	Chevrolet	Small Block	HYD	290	303	435	455	209/216	283/286	112	51	Pro-2000
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Performance Cams – Numerical Listing

			Lifter	Cam	l Lift	Valve Lift		Duration		Lobe	Over-	Cam
P/N	Mfgr.	Engine	Туре	Int.	Exh.	Int.	Exh.	.050 Lift	.006 Lift	C/L	lap	Series
CS-1106R	Chevrolet	Small Block	HYD	.295	.310	.443	.465	214/224	288/298	112	61	Pro-3000
CS-1107R	Chevrolet	Small Block	HYD	.265	.295	.398	.443	194/214	268/288	112	46	Pro-1500
CS-1127R	Chevrolet	Small Block	ROLL	.420	.420	.630	.630	256/258	292/296	106		Pro-5000
CS-1135R	Chevrolet	Big Block	ROLL	.400	.400	.680	.680	261/271	296/306	108		Pro-4000
CS-1137R	Chevrolet	Big Block	ROLL	.366	.366	.623	.623	246/246	288/288	110		Pro-4000
CS-1138R	Chevrolet	Small Block	HYD	.310	.310	.465	.465	224/224	298/298	112	66	Pro-3000
CS-1139R	Chevrolet	Big Block	HYD	.310	.325	.527	.553	224/232	302/304	114	63	Pro-3000
CS-1141R	Ford	Small Block	HYD	.310	.325	.496	.520	224/234	300/310	112	71	Pro-3000
CS-1145R	Chevrolet	Small Block	MECH	.306	.323	.459	.485	242/254	295/310	116	90	Pro-4000
CS-1146R	Chevrolet	Small Block	HYD	.340	.355	.510	.533	244/254	318/328	112	91	Pro-5000
CS-1148R	Chrysler	Big Block	HYD	.303	.303	.455	.455	224/224	289/289	112	48	Pro-3000
CS-1150R	Chevrolet	Small Block	HYD	.265	.280	.398	.420	194/204	268/278	104	57	Pro-1500
CS-1151R	Chevrolet	Small Block	HYD	.280	.295	.420	.443	204/214	278/288	110	55	Pro-2000
CS-1152R	Chevrolet	Small Block	HROL	.319	.334	.479	.501	222/232	297/307	114	67	Pro-3000
CS-1155R	Ford	429, 460	HYD	.265	.280	.458	.484	194/204	272/282	110	45	Pro-1500
CS-1156R	Ford	L4	HYD	.270	.270	.454	.454	220/220	282/282	112	46	Pro-3000
CS-1158R	Ford	Small Block	HYD	.265	.280	.424	.448	194/204	270/280	110	45	Pro-1500
CS-1159R	Ford	429, 460	HYD	.295	.310	.510	.536	214/224	292/302	112	61	Pro-3000
CS-1161R	Ford	Cleveland	HYD	.265	.280	.458	.484	194/204	272/282	110	45	Pro-1500
CS-1162R	Ford	Small Block	HYD	.310	.325	.496	.520	224/234	300/310	110	75	Pro-3000
CS-1165R	Buick	V8	HYD	.295	.310	.469	.493	214/224	290/300	112	61	Pro-3000
CS-1167R	Chevrolet	Big Block	HYD	.295	.295	.501	.501	214/214	292/292	114	52	Pro-3000
CS-1168R	Chevrolet	Small Block	HYD	.325	.325	.488	.488	232/234	300/308	108	80	Pro-5000
CS-1169R	Chevrolet	Small Block	HYD	.305	.305	.458	.458	218/218	292/292	110	64	Pro-3000
CS-1171R	Chevrolet	Small Block	HYD	.310	.325	.465	.488	224/234	298/308	112	71	Pro-3000
CS-1175R	Pontiac	V8	HYD	.310	.325	.465	.488	224/234	298/308	112	71	Pro-3000
CS-1177R	Ford	Small Block	HROL	.319	.334	.510	.534	222/232	299/309	112	70	Pro-3000
CS-1178R	Chevrolet	Small Block	HYD	.307	.307	.461	.461	232/232	303/303	114	74	Pro-5000
CS-1217R	Ford	Small Block	HYD	.280	.295	.448	.472	204/214	280/290	112	51	Pro-2000
CS-1224R	Chevrolet	Big Block	HYD	.320	.320	.544	.544	230/230	288/288	109	74	Pro-5000
CS-1226R	Chevrolet	Small Block	MECH	.330	.345	.495	.518	244/254	289/299	106	91	Pro-4000
CS-1227R	Chevrolet	Small Block	MECH	.345	.360	.518	.540	254/264	316/326	106	109	Pro-4000
CS-1231R	Ford	Small Block	HYD	.295	.310	.472	.496	214/224	290/300	112	61	Pro-3000





Selection Guidelines

Conventional Hydraulic Lifters

Speed-Pro hydraulic lifters are precision manufactured to maintain precise valve timing under all operating conditions. A precision metering valve provides precise oil metering to the overhead valvetrain. Check valves are lightweight, allowing high speeds and more uniform operation.

The lifters listed on the facing page are intended for use with both O.E.M. and aftermarket "stock" camshafts. Also recommended for use with hydraulic performance camshafts with RPM limitations of between 5500 and 6000 RPM.

Conventional hydraulic lifters can be identified by the prefix "HT." Listed on the facing page are the conventional hydraulic lifters that are shown in the alphabetical section of this catalog. Additional listings can be found in the master engine parts catalog.

Hi-Rev Hydraulic Lifters

Speed-Pro Hi-Rev (commonly called anti-pump-up) hydraulic lifters feature the same quality material and construction as the conventional hydraulic lifter. A special high strength, steel retainer is used to precisely limit the travel of the plunger during operation. With plunger travel limited, adjustable rocker arms must be used to effect a lash adjustment of .000/.002". This then allows the valve train to perform more like a mechanical system, thus allowing high RPM operation. Because of the high RPM capability and the elimination of frequent lash adjustments (which are required with mechanical lifters), Hi-Rev hydraulic lifters are the best choice for all-around performance engines.

Hi-Rev hydraulic lifters can be identified by the prefix "HT" and the suffix "R."



Lash Adjustment Directions for Hi-Rev Hydraulic Lifters

These racing hydraulic lifters are designed to eliminate so called lifter "pump-up" at high RPM In order for the lifters to perform this function the valve lash is critical and must be performed as follows:

- The preliminary lash adjustment on engine buildup requires the lifter to be on the base circle of the camshaft (valve closed position) and then to just remove all rocker arm to push rod clearance. This can be determined by rotating and/or moving the push rod while tightening the adjusting nut. When resistance to turning or movement is felt, the lash is satisfactory for engine start-up.
- After the engine is running and has been warmed up, the final lash adjustment can be made, preferably at hot idle. Set the valve lash at .002". If obvious valve click is heard at this setting, tighten down adjusting nut until click just disappears.
- 3. For Pontiac engines there is a washer and self-locking nut included with these lifters. They must be used to perform the above adjustment. If washer is included, install the washer and then the nut in the place of the stock nut. DO NOT use these washers and nuts on Oldsmobile engines.

Mechanical Lifters

Speed-Pro mechanical (fixed) lifters are manufactured from high quality hardenable iron alloys to withstand design stresses and normal engine contamination. Material and design excellence provide a lifter that is lightweight yet exhibits superior strength. A patented oil metering system limits the amount of oil that reaches the overhead. This keeps as much oil in the crankcase as possible while still providing adequate lubrication to the overhead.

Heat treated push rod seats are used to eliminate wear from push rods in racing engines with high valve spring pressures.

Speed-Pro mechanical lifters are intended for use with cast iron camshaft billets only and can be identified by the prefix "AT."

Hydraulic Roller Lifters

Speed-Pro's hydraulic roller lifter provides significant friction reduction while greatly increasing horsepower and fuel economy at the same time. Valves open more quickly from a fully closed to a fully opened position with a hydraulic roller lifter when compared to a conventional flat lifter. This then provides for enhanced performance, quieter engine operation, more horsepower and still allows for proper vacuum and idling capabilities.



Performance Lifters – Numerical Listing

P/N	Mfgr.	Engine	Application Notes
Hydraulic Lifte	ers		
HT-817	Chevrolet Chevrolet Chevrolet Chevrolet	V6 Small Block Big Block L6	O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement
HT-817R	Chevrolet Chevrolet	Small Block Big Block	Race Race
HT-900	Ford Ford Ford	429, 460 Small Block Cleveland	O.E. Replacement O.E. Replacement O.E. Replacement
HT-900R	Ford Ford Ford	429, 460 Small Block Cleveland	Race Race Race
HT-951	Oldsmobile	V8	O.E. Replacement
HT-951R HT-969	Pontiac Oldsmobile Pontiac Buick	V8 V8 V8 231, 400, 455	O.E. Replacement Race; Hardware packaged w/lifter not required Race; Requires hardware packaged w/lifter O.F. Replacement
HT-969R	Buick	V8	O.E. Replacement
HT-976	Chrysler	Big Block	O.E. Replacement
HT-2011	Chrysler	Small Block	O.E. Replacement
HT-2011R	AMC Chrysler Chrysler	V8 Small Block Big Block	Race Race
HT-2012	Ford	140	O.E. Replacement
HT-2083	Ford	390, 427, 428	O.E. Replacement
HT-2095	Chevrolet	V6	O.E. Replacement
Hydraulic Roll	er Lifters		
HT-2148 HT-2205 HT-5000RA HT-5010RA	Chevrolet Ford Chevrolet Chevrolet	Small Block Small Block Small Block Big Block	O.E. Replacement O.E. Replacement Retro-Fit Performance; Pair of lifters w/link bar Retro-Fit Performance; Pair of lifters w/link bar
Solid Lifters			
AT-992 AT-2000	Chevrolet Ford Ford	Small Block, Big Block Small Block Cleveland	O.E. Replacement O.E. Replacement O.E. Replacement
Solid Roller Li	fters		
AT-6027RA AT-6028RA AT-6031RA	Chevrolet Chevrolet Ford	Small Block Big Block 429, 460	Race; Pair of lifters w/link bar Race; Pair of lifters w/link bar Race; Pair of lifters w/link bar





Selection Guidelines

Adequate oil supply is crucial for engine durability under high stress conditions. Oil pressure keeps bearings "separated" from the crankshaft, preventing costly damage. All Sealed Power and Speed-Pro oil pumps are tested for proper rotation and pressure prior to shipment, ensuring dependable performance and long life.

Pumps deliver a given volume of oil based upon design, pump cavity size and RPM. Enlarging the pump cavity increases volume – high volume pumps are visibly bigger. Working the volume of pumped oil against an "orifice" creates oil pressure. This orifice is the combined area of all the engine clearances: rod, main, and cam bearings, lifter to lifter bore, and valvetrain components. Increased clearances will result in lower oil pressure all RPM levels (until the bypass point is reached).

At high RPM, oil pumps deliver more volume and pressure than required. A bypass valve in the pump determines maximum oil pressure. The valve works against spring pressure to open a relief passage. High pressure

pumps have a stiffer relief spring. High volume pumps provide greater pressure at any RPM until the bypass opens. The traditional "standard" for minimum oil pressure is 10 p.s.i. per 1000 RPM. Once you attain enough pressure to prevent engine damage, adding more has limited value.

Sealed Power Stock Replacement Oil Pumps

These oil pumps are designed to meet or exceed O.E standards for delivery volume and pressure. With cast iron pump bodies and precision machining, these pumps can be relied upon for adequate lubrication in most stock and mild performance rebuilds.

Sealed Power High Volume Oil Pumps

The extra volume these pumps provide helps maintain adequate oil pressure in engines with larger clearances. They take a bit more power to run, but the difference is nominal – the benefits outweigh the cost. Many high volume pumps also have a higher pressure relief setting as well, for increased oil pressure. High volume pumps are recommended in high output engine rebuilds. A high strength intermediate shaft is required.

Sealed Power High Pressure Oil Pumps

High pressure maintains oil film thickness under extreme loads, enhancing durability in otherwise marginal applications. Engines operating under heavy loads, using stock bearing clearances may benefit from the addition of a high-pressure pump. An example would be an otherwise stock engine with a supercharger or nitrous oxide kit.



Oil Pumps – Numerical Listing

P/N	Mfgr.	Engine	Description	Features
Oil Pump	s and Oi	l Pump Ki	its	
224-121R	Chevrolet	Big Block	High Volume Oil Pump	High Performance; 25% more volume than stock pump
224-123H 224-518	Ford Buick	Small Block	Algn Volume	Incl. 224-61143 snaft; High Performance; 25% more volume than stock pump
224-518V	Buick	V6, V8	High Volume	
224-518TP	Buick	V6 & V8	Thrust Plate Kit	Incl. screws, gaskets, and instructions
224-519	Buick	V8	O.E. Replacement	Use O.E. relief spring P/N 1233892 for Stage 1
224-4143	Chevrolet	Small Block	High Volume	Requires 224-6146E shaft
224-4146 224-4146A	Chevrolet	Small Block	U.E. Replacement	7.08 style numn
224-4147	Chevrolet	L6	O.E. Replacement	
224-4148	Chevrolet	V6	O.E. Replacement	
224-4148V	Chevrolet	V6	High Volume	S-10; Pass. 2.8-1, 2.8S
224-4153	Chevrolet	Big Block	High Volume Oil Pump	Street Performance
224-4154	Chevrolet	Big Block	O.E. Replacement	Fits most pre '8/ applications
224-41546	Chevrolet		High Volume	Short pump, 87-95
224-4166	Chrysler	Small Block	O.E. Replacement	
224-4166V	Chrysler	Small Block	High Volume	
224-4174	Chrysler	Big Block	O.E. Replacement	
224-4174V	Chrysler	Big Block	High Volume	
224-41118	Ford	Small Block	O.E. Replacement	Incl 224-61118 shaft
224-41120	Ford	429, 460	Q.F. Beplacement	Fxc. C.I. SCJ: Use w/Press-in screen
224-41139V	Ford	429, 460	High Volume	Angled screen mount; Bolt on
224-41143	Ford	Small Block	O.E. Replacement	-
224-41143V	Ford	Small Block	High Volume	Incl. 224-61143 shaft; Street Performance
224-41160	Ford	L4	O.E. Replacement	Before 4/08/85; Exc. turbo
224-41160V 224-41166	Ford	L4 Cleveland	O F Benlacement	Exc. Tuibo
224-41166V	Ford	Cleveland	High Volume	
224-41173	Ford	390, 427, 428	O.E. Replacement	
224-41177	Ford	390, 427, 428	High Volume	
224-41203	Oldsmobile	V8	O.E. Replacement	Dequires 004 11000V esteen
224-41203V 224-43364S	Pontiac	V8	High Pressure	Incl. screen
224-43365A	Ford	390, 427, 428	High Pressure	
224-43366A	Chrysler	Big Block	High Pressure	
224-43370	Ford	Small Block	High Pressure	Dece , Eve. 0.9. 1, Incl. shaft and series
224-43309V 224-43405	Ford	14	Q.F. Beplacement	w/Turbo
224-43469V	Chevrolet	Small Block	High Volume	'93 and later; 3/4" inlet; Street Performance
224-51285	AMC	V8	O.E. Replacement	
011 Pump	Screens		Q E Deplecement	Compare to O.E. except for exception
224-128	Chevrolet	vo Small Block	O.E. Replacement	'62-64' '67 Chevelle
224-1148	Chevrolet	V6	O.E. Replacement	Pass.; Exc. 2.8-1, 2.8S
224-1246	Chevrolet	Small Block	O.E. Replacement	'65 & Up; Exc. Corvette; '67 Chevelle
224-1348	Chevrolet	V6	O.E. Replacement	1988-86; S-10 2WD
224-11118	Ford	Small Block	O.E. Replacement	'80 & Earlier; Exc. Fairmont, Zephyr
224-11143	Ford		O.E. Replacement	Pinto Bobcat Mustang II
224-11166	Ford	Cleveland	O.E. Replacement	r mo, bobou, muotang n
224-11203	Oldsmobile	V8	O.E. Replacement	Exc. Toronado
224-11203V	Oldsmobile	V8	O.E. Replacement	Use w/224-41203V pump
224-12139	Ford	429, 460	O.E. Replacement	Exc. CJ, SCJ; Press-in
224-12100	Oldsmohile	L4 \/8	O.E. Replacement	EXC. PINIO, DODCal, Musiany II Toropado
224-14118	Ford	Small Block	O.E. Replacement	'81 & Up
224-14158	Ford	390, 427, 428	O.E. Replacement	
224-14160	Ford	429, 460	O.E. Replacement	CJ, SCJ; Press-in; Bolt on
224-14161	AMC Chourolat	V8 Small Block	O.E. Replacement	Convetto
224-14230	Ford	429, 460	O.E. Replacement	Long bolt on
224-14232	Chevrolet	V6	O.E. Replacement	1986-88 4WD S-10; Pass. Exc. 2.8-1, 2.8S
224-14239	Chrysler	Small Block	O.E. Replacement	
224-14258	Chevrolet	Small Block	O.E. Replacement	'93 and later; Exc. Corvette
224-43620	Chevrolet	BIG Block	U.E. Replacement	

Oil Pumps – Numerical Listing

Dil Pum	nps –	Nume	rical Listing	
P/N	Mfgr.	Engine	Description	Features
Oil Pump	Drive S	hafts		
224-6146 224-6146E	Chevrolet Chevrolet Chevrolet	Small Block V6 Small Block	O.E. Replacement O.E. Replacement Heavy Duty Pump Shaft	Use w/nylon shaft guide Heavy Duty; w/Integral steel guide w/Integral steel guide for 224-4143 pump
224-6148 224-6154	Chevrolet Chevrolet	V6 Big Block	O.E. Replacement Heavy Duty Pump Shaft	w/Integral steel guide for 224-4153 pump
224-6154A 224-6166 224-6174 224-61114 224-61118	Chevrolet Chrysler Chrysler Ford Ford	Big Block Small Block Big Block 390, 427, 428 Small Block	O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement	Use w/nylon shaft guide
224-61127 224-61143 224-61160 224-61166 224-61203 224-61236	Ford Ford Ford Ford Oldsmobile Pontiac	429, 460 Small Block L4 Cleveland V8 V8	O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement O.E. Replacement	
Shaft Gui	des			
224-43343	Chevrolet	V8	Shaft Guide	Nylon

Piston Pin Lock Rings – Numerical Listing



P/N	Туре	* O.D.	Thickness	Groove O.D.	Groove Width	Notes			
LR-194	Lock Ring	1.041	0.042	1.000	0.051				
LR-260	Spirolox	1.013	0.042	1.000	0.046	Can replace LR-194			
LR-261	Spirolox	1.072	0.050	1.053	0.064	Can replace LR-186			
LR-262	Spirolox	1.015	0.082						
LR-N540098	Lock Ring	1.120	0.050	1.053	0.061				

* - Approximate dimension when uninstalled

PISTONS



Piston Technology

There are numerous issues to consider when selecting pistons for a high performance application. Choices are made through comparison of cost, design, material, and compression ratio. The relative importance of these features is dictated by the intended use of the engine. The requirements for a Saturday night boulevard cruiser are not the same as those of a dedicated race vehicle. Isolating each of these characteristics will help establish some guidelines for proper piston selection.

The most important question an engine builder must answer is: *What will this engine be used for?* This is a case where the racer has an advantage, because they know the conditions that their vehicle will operate under, the fuel they will be using, and modifications are often limited by sanctioning body rules. The street oriented enthusiast must consider the quality of the fuel available, the level of performance expected of the vehicle, and the possibility of future additions such as nitrous oxide systems, turbos, or superchargers. Any modification that increases the potential for detonation must be carefully considered before making a selection.

Piston Material and Manufacturing Process Selection

POWERFORGED

Speed-Pro POWERFORGED[®] pistons set the standard for the performance industry, with material and design superiority that has been proven in every form of racing. The forging process has inherent advantages in terms of density, ultimate strength and durability. Forging eliminates porosity in the metal, improves ductility, and will allow the piston to run cooler than a comparable cast unit. POWERFORGED pistons start from a "near net shape" forging, with a desirable horizontal grain flow and tightly controlled head thickness. This minimizes piston weight without compromising strength. These pistons are better able to withstand the high cylinder pressures and skirt loads imposed by racing use, and are more likely to survive limited detonation and valve piston contact which may occur during a race. If your vehicle is to be used for endurance racing, faster classes of drag racing, or extreme duty street performance, you should probably select a forged piston. Engines with very high compression ratios (11:1 and over), high boost superchargers, nitrous oxide, or which operate under conditions approaching detonation will benefit from the powerforged piston's characteristics.



4032 alloy is used in most popular POWERFORGED pistons. This alloy contains approximately 11% silicon. As in the hypereutectic alloys, the silicon provides for reduced ring groove wear and enhanced scuff resistance. These alloys are ideal for both street use and many racing applications. Horsepower benefits have often claimed by those who favor one piston material over another. A wise decision will be based on intended application and usage, not on theoretical power improvements. The actual power differences between alloys and manufacturing processes are nominal at best. We supply a full range of design and material alternatives, so that you can choose the one that best suited to your needs.

Perfectly Matched Pins



Each Speed-Pro POWERFORGED piston includes a perfectly matched pin that is manufactured alongside

the piston. Each piston is uniquely bored to match the corresponding pin, whether it is a floating pin or pressed pin design. In addition, each pin is perfectly finished and manufactured to the most stringent tolerances.



Design Criteria

HYPEREUTECTIC

Federal-Mogul utilizes two manufacturing processes for the production of high performance pistons: Speed-Pro Hypereutectic pistons are cast in permanent molds, while Speed-Pro POWERFORGED pistons are extruded from aluminum bar stock. Each has advantages in certain applications, but there are cases where the choice is not an easy one. An honest evaluation of your needs will yield the most satisfactory results.



Speed-Pro's exclusive FM244 hypereutectic alloy is the result of extensive testing and development, and has several unique characteristics. Unlike competitive products, this optimized metallurgy allows our hypereutectic pistons to operate perfectly with standard ring end gaps, and conventional ring land locations. When compared to traditional cast pistons, which are not designed for performance use, the hypereutectics are significantly stronger, particularly in the highly loaded ring land, skirt and pin bore areas. Our FM244 Alloy contains 16.5% silicon, and has excellent tensile and fatigue strength. This material's improved thermal characteristics, it's greater hardness, and the increased resistance to scuffing permit tight bore clearances which help minimize noise on cold engine start up. This quiet operation, along with a lower cost are the primary advantages over a comparable forged piston. These pistons are an excellent choice for street performance, for "claimer" oval track engines, and for bracket racing use. They will also work well in moderate supercharged applications, and are especially suitable for towing and marine use.

Both the Hypereutectic and the POWERFORGED pistons are available in a variety of configurations to meet the needs of an engine builder. The areas which get the most attention are head design, compression ratio, skirt strength, weight, and pin retention method.

Piston Head Design

Piston head design is dictated by the desired compression ratio, the shape and volume of the combustion chamber, and by the desired number, size, and location of valve reliefs. Pistons with four equal sized valve reliefs are usually designed to work in all cylinders of an engine, while still allowing a built in pin offset. Pistons with two different sized valve reliefs can be used only in one half of the cylinders of engines having siamesed valve arrangements, such as the small block Chevrolet. Such combinations require two piston part numbers, dedicated to specific cylinders in the engine. Engines such as the big block Chevrolet, which alternate the intake and exhaust valves across the head, can use a single two relief piston part number for the entire engine – if piston pins are not offset.

A dome on a piston is considered detrimental to flame travel and airflow within the cylinder, but is often the only way to achieve a desired compression ratio when using large volume heads. A flat top piston with a smaller chamber volume is generally more desirable. Several race engine builders have gone to a reverse dome configuration, where the piston top mirrors the combustion chamber.

Speed-Pro's line of CNC machined pistons utilize the latest in machining equipment technology to generate dome profiles with outstanding dimensional and volume accuracy. These pistons are ideal for race applications, delivering extremely consistent compression ratios, lighter weight, and reducing the need for extensive machine shop work.



Some domed pistons can be modified into a flat top, to lower compression ratio, but this is not a job for the home engine builder. A minimum head thickness of .180" for forgings, or .220" for hypereutectics must be maintained, with greater thickness required for endurance, nitrous, or blower use. Many pistons cannot be modified – if you are not sure contact Federal-Mogul Technical Service! These same cautions apply to valve relief modification.





Design Criteria

Piston to Valve and Cylinder Head Clearances

Piston to valve clearance should be a minimum of .100". This clearance will be changed if heads or block have been machined, and must be checked at assembly. While some people claim to "get away" with less clearance, there are many others that have bent valves and broken engines trying to do so. When using steel rods, the minimum clearance between the piston and the cylinder head should be around .040"; aluminum rods require an additional .010 - .020" due to their tendency to stretch at higher engine speeds. Many engines use a flat "quench" area on the piston, which creates beneficial turbulence within the combustion chamber by coming into close contact with the bottom of the cylinder head. In applications having this "guench" design the clearance between the piston and the head should not exceed .060" in this area, or destructive detonation may occur. This is the reason that stacking head gaskets to lower the compression ratio usually delivers poor results.

Piston Skirt Design and Bore Clearances

Piston skirt strength and required bore clearance depend on material, skirt cross section shape, oil ring groove drainback design, and where the clearance is measured on the piston. Stock replacement and moderate performance type pistons, whether forged or cast, use slots to return oil that is scraped from the cylinder walls by the oil ring. This design allows the skirt to be more flexible, and permits the tighter cold bore clearances. Forged pistons with the slot design can be set up at nearly the same clearances as cast pistons. A high performance race type piston will use machined "windows" or drilled holes for oil return. The drilled hole design adds significant structural strength to the skirt of the piston, but requires greater cold bore clearances since the skirt is less flexible and the amount of heat transferred from the piston head is increased.

Contrary to statements from other manufacturers, the greater clearances do not cause ring sealing problems, as the working clearances are nearly the same once the piston reaches normal operating temperatures. These piston skirts are specially shaped to reach optimal clearances once warmed up, through careful attention to skirt cross section design and piston growth patterns. When cold, all Speed-Pro pistons exhibit an oblong or "cam" shape around the skirt area. While a drilled oil return style forged piston may exhibit some noise when cold, it would be rare to hear a racer complain about it. Also important is the place where measurements are taken. Since piston diameter varies from the pin bore to the bottom of the skirt, it is possible to have two pistons with different specifications but identical operating clearances.

DUROSHIELD[®] Skirt Coating



Speed-Pro was the first supplier to the performance market to provide production pistons with a moly-graphite skirt coating. Proven in both OEM and racing applications, this unique coating delivers greater durability, reduced friction, and allows the pistons to be installed with tighter cylinder bore clearances. The benefits that can be realized by optimizing an engine combination around this unique feature include quieter operation, lower emissions, better fuel economy, and more power. The coating is applied in our manufacturing facility using a sophisticated process, and is then cured in place – it will not wear or flake off. The exclusive DUROSHIELD coating is now standard equipment on Speed-Pro POWERFORGED and hypereutectic pistons.

Compression Ratio Determination

Choosing the correct compression ratio (C.R.) for an application is a major key to success. Too high a ratio will cause far more problems than will one that is a bit low, so be conservative in your selection. Fuel quality and intended usage are the primary limiting factors. Detonation is caused by excessively high compression, lean fuel mixtures, or overly advanced timing. Detonation will damage your engine, and must be avoided. Compression ratio calculation programs for personal computers are available from a number of sources, and are highly recommended.

Don't get hung up on an exact compression ratio number – target a relevant range that will meet your needs. Street driven vehicles should be limited to a C.R. between 9 and 10 to 1, which approaches the practical limit for pump premium fuels. Oval track applications using gasoline should normally be built with a maximum of 12.5 to 13.25, depending upon the type of car, the track size, and on the fuel used. Drag racing applications often use higher compression ratios, with fuel type as the limiting factor. The use of alcohol based fuels permits higher compression ratios than are practical with gasoline. Engines using aluminum cylinder heads, smaller bore diameters,



and flat or dished pistons are less susceptible to detonation, and can run slightly higher compression with a given fuel. The compression ratios and deck clearances shown in our catalog are based upon the published standard block deck height and the Fel-Pro head gasket volume for each engine family, and can be directly compared to one another. The ratios shown are for comparative reference only, as your heads and block are likely to differ from the published data. Cylinder head chamber volume and block deck clearance will have a direct effect upon actual compression ratio, and must be checked. Factory cylinder heads can vary considerably from published specifications. You cannot accurately determine your compression ratio without measuring the chamber volume.

Piston Weight

Piston weight has recently become a very high profile topic in the performance media. Realistically, a reduction in piston weight has only a modest impact on horsepower or vehicle acceleration. The true value of reduced weight lies in the potential for higher RPM as a result of the reduced loads on components such as connecting rods and bearings. Optimizing the engine combination for these higher RPM levels will certainly carry the potential for more power.

Speed-Pro has introduced a number of fully machined Competition Series pistons, with several benefits for the serious enthusiast. These pistons are forged or cast to a shape very close to the desired finished configuration, and then all working surfaces are precision CNC machined. This gives very tight control of head thickness, and allows light weight without sacrificing durability. A great deal of information has been circulated concerning the comparative weights of POWERFORGED pistons to those of other manufacturers, both cast and forged. The facts are that we offer a far greater variety of pistons than does anyone else, and many choose to compare our O.E. replacement forgings to their lightest race versions. An "apples to apples" comparison will show our products to be comparable to any in the market in terms of weight. Others compare their products to ours because we set the industry standards for performance, durability, and variety.

Pin Type

In a traditional engine rebuild, the original engine manufacturer dictates the pin retention method. Engines produced with press fit pins can be converted to the "floating" type providing that the piston has provisions for a lock ring retainer. Many POWERFORGED and Hypereutectic pistons are designed to accommodate either style pin. The horsepower difference – if any exists, between pressed and floating pins is extremely small. Floating pins are preferred by most engine builders for ease of assembly, but many races have been won with press fit pins. Don't automatically discount pressed pins for moderate performance use, the benefits of converting to floating pins may not justify the cost.

Speed-Pro has introduced a new line of tapered wall, lightweight piston pins. As standard equipment in select POWERFORGED and hypereutectic pistons, they offer the advantage of significantly reduced weight, while maintaining excellent strength and wear resistance. These benefits are available at a relatively low cost, which makes the Speed-Pro tapered pin an attractive upgrade for many performance applications. Unlike the short lived, drag race only style pins sold by competitors, Speed-Pro tapered, lightweight pins are designed for reliable, long-term use in street, oval track and bracket racing applications. Speed-Pro lightweight, tapered piston pins feature chamfered ends to work in concert with our round wire retainer lock ring.

Pin Retainer Lock Rings

Pistons using floating pins require some means to retain the pin in the piston. The traditional methods used single or double Tru-Arc or Spirolox style clips. A recent Speed-Pro innovation has been the use of round wire style retainers. While they at first appear to be very simple, the round wire has many advantages over the other designs. When coupled with a large chamfer on the end of the pin, the round wire spreads loads laterally across the entire pin boss area of the piston. The lock ring groove machined in the piston for a round wire retainer has no sharp edges – eliminating those areas otherwise susceptible to concentrated stress. As an added bonus, round wire retaining rings are easy to install and remove – a welcome improvement.






Ring Grooves

The ring grooves are often overlooked, but critical elements to a successful performance combination. They are combustion sealing surfaces for the piston rings, and must be smooth, accurate, and precisely located. Speed-Pro pistons feature CNC machined ring grooves that have a small degree of "vertical uptilt", which compensates for the changes in piston growth at elevated temperatures. We machine a small radius at the inner "corners" of each ring groove. This radius reduces the potential for stress concentration, making the ring lands stronger under high load conditions. Select Speed-Pro pistons also include accumulator grooves between the top and second rings, and undercut second ring lands. These additional features help reduce inter ring pressure buildup, and enhance top ring sealing at high RPM.

Cost

Hypereutectic cast pistons have a cost advantage over POWERFORGED pistons due to the manufacturing processes involved. Coupled with their quiet operation, this makes them ideal for the budget conscious enthusiast. The POWERFORGED parts offer greater durability in high stress applications, and are available in a greater number of specialized configurations. There are cases where the decision to use one or the other is not clear cut, and either type will do the job. If future plans call for continued modifications to your vehicle it is best to consider them when making your selection. The final decision is yours, weighing the benefits of each type against your performance needs.

Application Codes

Not normally used for this application

May be marginal due to high cost or ultimate strength

Will work, but exercise caution with timing/ mixture

The best choice for this application

GENERAL GUIDELINES: Modifications which dramatically increase cylinder pressure, such as: very high compression, blowers or nitrous usually require drilled type forgings. Engines that see only occasional wide open throttle use, as in towing or moderate street performance, are best off with hypereutectics. Applications which fall between these extremes can use either piston type, with the decision based on cost, desired strength, and future plans for the vehicle.

Piston Selection Guidelines

					Application	1		
Piston Type	Standard Service	Light Truck & Towing	Moderate Street Perf.	Oval Track "Claimers"	High Perf. Street/Strip	Pro Street & Brackets	Blowers & Nitrous	Fast Ovals and Drags
Cast								
Hypereutectic								
Forged — with slotted oil groove								
Forged — with drilled oil groove								



Part Harge Part Part <t< th=""><th></th><th>_</th><th></th><th></th><th></th><th></th><th></th><th>_</th><th>_</th><th></th><th></th><th></th><th></th><th></th></t<>		_						_	_					
Number Integr Family [Value] (Value] (Part	En	igine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin Obda (0)	Pin	Pin
H100CP Interviet Chevroite Small Block 4.000 All 1.560 All 558 All 550 Filt Filt 2 mile All Filt 0.827 All 158 All H100CP 30 H100CP 30 All Chevroite Small Block 4.000 All 1.560 All 550 All 550 All 550 All 711 All 516 All 711 All 516 All 716 All	Number	Mfgr.	Family	Dia.	Dist	(grams)	volume	Snape	Ring	Ring	Ring	Style (S)	Dia.	weight
H100CP30 Chervoiet Small Block 4.030 1.560 Filt 2 miletis 11.16	H100CP	Chevrolet	Small Block	4.000	1.560	556	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H100CP 40 Chewolet Small Book 4.040 1.660 S76 5.0. Filtz 2 reliefs 1/16 1/16 1/16	H100CP 30	Chevrolet	Small Block	4.030	1.560	571	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H100C P80 Chewrolet Small Block 4.000 1.660 Pist 2 rulets 1.116 1/16	H100CP 40	Chevrolet	Small Block	4.040	1.560	576	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H101CP 30 Chevrolets Small Block 4.000 1.800 6.80 3.5 1.00 dome; 2 rules 1.16	H100CP 60	Chevrolet	Small Block	4.060	1.560	586	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H101CP 40 Chewrolds Small Block 4.040 1.800 611 3.5 1.000 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H102CP 40 Chewrolds Small Block 4.030 1.580 6221 1.18 2400 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H102CP 40 Chewrold Small Block 4.040 1.620 644 1.18 2400 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H106CP 40 Chewrold Small Block 4.040 1.425 551 9.5 200 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H107CP 40 Chewrold Small Block 4.161 1/425 561 3.0 3/40 dome; 2 reliefs 1/16 1/16 9/16 9/987 1/75 H110CP 40 Chewrold Big Block 4.200 1/800 3/00 3/04 dome; 2 reliefs 1/16 1/16 9/16 9/98	H101CP 30	Chevrolet	Small Block	4.030	1.560	606	3.5	.100 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
H101CP2 00 Chewrolet Small Block 40.90 1.580 6221 3.5 1.000 dome; 2 relinds 1/16 1/16 7/16 F 0.927 159 H102CP 40 Chewrolet Small Block 4.040 1.580 644 11.8 2/40 dome; 2 relinds 1/16 1/16 7/16 F 0.927 159 H102CP 40 Chewrolet Small Block 4.030 1.425 551 9.52 2000 dome; 2 relinds 1/16 1/16 3/16 F 0.927 159 H100CP 40 Chewrolet Small Block 4.040 1.425 551 9.5 2000 dome; 2 relinds 1/16 1/16 3/16 F 0.927 159 H100CP 40 Chewrolet Small Block 4.020 1.840 703 3.03 3/00 dome; 2 relinds 1/16 1/16 3/16 F 0.920 1/75 H10CP 40 Chewrolet Blg Block 4.020 1.860 577 -50 Flat 2 reliefs 5/16 5/16	H101CP 40	Chevrolet	Small Block	4.040	1.560	611	3.5	.100 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H102CP 80 Chewroldt Small Block 4.03 1.86 2.94 1.8 2.404 dome; 2 reliefs 1/16 1/16 2/16 F 0.927 159 H102CP 80 Chewroldt Small Block 4.040 1.860 644 1.18 2.404 dome; 2 reliefs 1/16 1/16 F 0.927 159 H105CP 80 Chewroldt Small Block 4.040 1.425 551 9.5 2000 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H107CP 40 Chewroldt Small Block 4.043 1.425 576 3.5 1000 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H107CP 40 Chewroldt Big Block 4.230 1.840 7.03 3.5 0.000m; 2 reliefs 1/16 1/16 3/16 F 0.927 159 H110CP 40 Chewroldt Big Block 4.230 1.840 7.03 3.5 0.000m; 2 reliefs 1/16 1/16 5/16	H101CP 60	Chevrolet	Small Block	4.060	1.560	621	3.5	.100 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
H1020 P40 Chewrold Small Block 4.040 1580 644 118 204 dome: 2 reliefs 116	H102CP 30	Chevrolet	Small Block	4 030	1 560	629	11.8	240 dome: 2 reliefs	1/16	1/16	3/16	F	0 927	159
H102CP 60 Chewriet Small Block 4.080 1.880 6.44 11.8 2.040 dome; 2 reliets 1/16 1/16 3/16 F 0.927 159 H106CP 40 Chewrold Small Block 4.040 1.425 551 9.5 200 dome; 2 reliets 1/16 1/16 3/16 F 0.927 159 H107CP 40 Chewrold Small Block 4.145 1.425 551 0.5 200 dome; 2 reliets 1/16 1/16 7/16 P 0.927 159 H107CP 40 Chewrold Small Block 4.161 1.425 551 0.500 0.000 dome; 2 reliets 1/16 1/16 7/16 P 0.920 1/15 H116CP 60 Chewrolet Big Block 4.300 1.600 507 5.0 Faiz 2 reliets 564 564 3/16 F 0.980 1/75 H116CP 60 Chrysler Small Block 4.301 1.600 567 5.0 Faiz 2 reliets 564 564 3/	H102CP 40	Chevrolet	Small Block	4 040	1.560	634	11.8	240 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
H196C 20 Chevrolet Small Block 4.00 1.425 551 200 dome; 2 reliefs 1116 1116 116	H102CP 60	Chevrolet	Small Block	4.060	1.560	644	11.8	.240 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
Integra Chevrolet Small Block 4.060 1.425 581 2.00 0.01111 2.1116 1.116	H106CD 20	Chouralat	Small Blook	4.020	1 405	E 4 6	0.5	200 domo: 2 roliofo	1/16	1/16	2/16	E	0.007	150
H106CP 80 Chevrolet Small Block 4.060 1.425 561 9.5 2.00 dome; 2 relicts 1/16 1/16 3/16 F 0.927 193 H107CP 40 Chevrolet Small Block 4.155 1.425 561 3.5 1.00 dome; 2 relicts 1/16 1/16 3/16 F 0.927 159 H110CP 80 Chevrolet Big Block 4.200 1.640 703 5.00 dome; 2 relicts 1/16 1/16 7/16 F 0.990 175 H110CP 80 Chevrolet Big Block 4.000 1.660 567 -5.0 Flat; 2 relicts 5/54 5/64 5/	H106CP 30	Chevrolet	Small Block	4.030	1.425	551	9.5	200 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
Handbox Charle Book Also Face	H106CP 60	Chevrolet	Small Block	4.040	1.425	561	9.5	200 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
H10/CP 40 Chevrolet Small Block 4.16s 1.42s 57.0 3.5 1.00 dome, 2 relies 1.16 1.16 31.6 F 0.327 159 H110CP 40 Chevrolet Big Block 4.200 1.440 661 3.5 1.00 dome, 2 relies 1.16 1.16 31.6 F 0.927 159 H110CP 60 Chevrolet Big Block 4.200 1.660 557 -5.0 Fatz, 2 reliefs 564 564 564 564 564 564 564 564 316 F 0.984 154 H116CP 20 Chryaler Small Block 4.000 1.660 597 -5.0 Fatz, 2 reliefs 564 516 716 116 716 750 Fatz, 2 reliefs 564 316 F 0.990 175 H116CP 60 Chryaler Small Block 4.000 1.600 597 -5.0 Fatz, 2 reliefs 1/16 1/16 3/16 F 0.927 114 <td< th=""><th>1110001 00</th><th>Ohermelet</th><th></th><th>4.000</th><th>1.405</th><th>570</th><th>0.0</th><th>100 dome, 2 reliefs</th><th>1/10</th><th>1/10</th><th>0/10</th><th></th><th>0.027</th><th>100</th></td<>	1110001 00	Ohermelet		4.000	1.405	570	0.0	100 dome, 2 reliefs	1/10	1/10	0/10		0.027	100
IntorPate Clamote L State A. 168 I. 4. 169 I. 640 Other International Constraints International Constraints <th< th=""><th>H107CP 30</th><th>Chevrolet</th><th>Small Block</th><th>4.155</th><th>1.425</th><th>5/6</th><th>3.5</th><th>. 100 dome; 2 reliefs</th><th>1/10</th><th>1/10</th><th>3/10</th><th></th><th>0.927</th><th>159</th></th<>	H107CP 30	Chevrolet	Small Block	4.155	1.425	5/6	3.5	. 100 dome; 2 reliefs	1/10	1/10	3/10		0.927	159
H110C 930 Chevrolet Big Block 4.280 1.640 691 33.0 340 dome; 2 reliefs 1.16 1.16 31.6 F 0.990 175 H110CP 60 Chryaler Small Block 4.000 1.660 567 -5.0 Fat. 2 reliefs 564 564 564 516 564	H10/CP 40	Crievrolet	Small Block	4.100	1.425	100	3.5	. 100 dome; 2 reliels	1/10	1/10	3/10		0.927	159
H1102Pe Chevrolet Engl Block 4.310 1.640 703 30.5 3.00 dome; 2 reliefs 1/16 1/16 3/16 F 0.990 1/75 H1162P 20 Chrysler Small Block 4.020 1.660 577 -5.0 Fat: 2 reliefs 5/64	H110CP 30	Chevrolet	Big Block	4.280	1.640	691	33.0	.340 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
H116CP Chrysler Small Block 4.000 1.660 677 -5.0 Flat2 zelelis 5/64 5/64 3/16 F 0.984 154 H116CP 20 Chrysler Small Block 4.030 1.660 582 -5.0 Flat2 zelelis 5/64 5/64 3/16 F 0.984 154 H116CP 40 Chrysler Small Block 4.004 1.660 597 -5.0 Flat2 zelelis 5/64 5/64 3/16 F 0.980 1/51 H116CP 40 Chevrolet Big Block 4.310 1.660 5/77 -5.0 Flat2 zelelis 1/16 1/16 3/16 F 0.990 1/75 H12CP 30 Ford Small Block 4.135 1.130 469 -5.0 Flat2 zelelis 1/16 1/16 3/16 F 0.992 1/14 SH122C180 Chevrolet Small Block 4.155 1.200 470 5.0 Flat2 zelelis 1/16 1/16 0.8027 1/14 <th>H110CP 60</th> <th>Chevrolet</th> <th>Big Block</th> <th>4.310</th> <th>1.640</th> <th>703</th> <th>30.5</th> <th>.300 dome; 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0.990</th> <th>175</th>	H110CP 60	Chevrolet	Big Block	4.310	1.640	703	30.5	.300 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
H116CP 20 Chrysler Small Block 4.020 1.660 577 5.0 Fiat.2 relefs 5/64 5/64 3/16 F 0.984 154 H116CP 20 Chrysler Small Block 4.040 1.660 587 5.0 Fiat.2 relefs 5/64 5/64 3/16 F 0.984 154 H116CP 80 Chrwolet Big Block 4.300 1.640 725 22.0 220 doms; 2 relefs 1/16 1/16 3/16 F 0.990 175 H112CP 80 Chewolet Small Block 4.303 1.640 726 5.0 Fait.2 relefs 1/16 1/16 3/16 F 0.990 175 H12CP 80 Chewolet Small Block 4.155 1.130 457 5.0 Fiat.2 relefs 1/16 1/16 3/16 F 0.927 114 B-H122CL 80 Chewolet Small Block 4.020 1.130 432 5.0 Fiat.2 relefs 1/16 1/16 9/16 F	H116CP	Chrysler	Small Block	4.000	1.660	567	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
H116CP 30 Chrysler Small Block 4.030 1.660 582 -5.0 Flat: 2 reliefs 5/64 5/64 3/16 F 0.984 154 H116CP 40 Chrysler Small Block 4.060 1.660 597 -5.0 Flat: 2 reliefs 5/64 5/64 3/16 F 0.984 154 H112CP 30 Chewrolet Big Block 4.201 1.640 7/26 22.0 220 dome; 2 reliefs 1/16 1/16 3/16 F 0.990 1/25 H12CP 30 Ford Small Block 4.030 1.615 500 Flat: 2 reliefs 1/16 1/16 3/16 F 0.927 114 SH122C1.80 Chewrolet Small Block 4.105 1.130 489 -5.0 Flat: 2 reliefs 1/16 1/16 3/16 F 0.927 114 SH122C1.80 Chewrolet Small Block 4.020 1.130 428 -5.0 Flat: 2 reliefs 1/16 1/16 3/16 F	H116CP 20	Chrysler	Small Block	4.020	1.660	577	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
H116CP 40 Chrysler Small Block 4.040 1.660 587 5.0 Flat; 2 relets 5/64 5/64 3/16 F 0.984 154 H118CP 60 Chevrolet Big Block 4.380 1.840 726 22.0 230 dome; 2 relets 1/16 1/16 3/16 F 0.990 175 H118CP 60 Chevrolet Big Block 4.310 1.640 726 22.0 230 dome; 2 relets 1/16 1/16 3/16 F 0.990 175 8-H12CC 180 Chevrolet Small Block 4.155 1.130 457 5.0 Flat; 2 relets 1/16 1/16 3/16 F 0.927 114 8-H12CL 20 Chevrolet Small Block 4.155 1.200 442 5.0 Flat; 2 relets 1/16 1/16 3/16 F 0.927 114 8-H12CL 20 Chevrolet Small Block 4.020 1.130 432 5.0 Flat; 2 relets 1/16 1/16 3/16	H116CP 30	Chrysler	Small Block	4.030	1.660	582	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
H116C F60 Chryster Small Block 4.060 1.660 597 -5.0 Fial: 2 reliefs 51/16 11/16 31/16 F 0.984 154. H118CP 30 Chewrolet Big Block 4.310 1.640 725 2.20 230 dome: 2 reliefs 11/16 11/16 31/16 F 0.990 175 H112CP 30 Ford Small Block 4.105 1.130 467 -5.0 Flat: 2 reliefs 11/16 11/16 31/16 F 0.9927 114 8-H122CL 30 Chewrolet Small Block 4.155 1.200 470 -5.0 Flat: 2 reliefs 11/16 11/16 11/8 9.0227 114 8-H122CL 30 Chewrolet Small Block 4.030 1.130 428 -5.0 Flat: 2 reliefs 11/16 11/8 9.0227 114 8-H122CL 30 Chewrolet Small Block 4.040 1.30 432 -5.0 Flat: 2 reliefs 11/16 11/8 9.0227 114	H116CP 40	Chrysler	Small Block	4.040	1.660	587	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
H118CP 30 Chewrolet Big Block 4.280 1.640 725 220 230 dome; 2 reliefs 1/16 1/16 3/16 F 0.990 175 H118CP 30 Ford Small Block 4.030 1.615 560 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.990 175 H122CL 30 Chewrolet Small Block 4.155 1.130 457 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 B-H122CL 30 Chewrolet Small Block 4.155 1.260 469 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/16 1/16 0.927 114 B-H122CL 30 Chewrolet Small Block 4.000 1.130 428 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 0.927 114 B-H122CL 30 Chewrolet Small Block 4.000 1.130 442 -5.0 Flat; 2 reliefs 1/16 1/16 1	H116CP 60	Chrysler	Small Block	4.060	1.660	597	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
H119CP 80 Chevrolet Big Block 4.310 1.640 740 20.0 210 Game; 2 reliefs 1/16 1/16 1/16 1/16 1/16 3/16 F 0.990 175 H12QCP 30 Chevrolet Small Block 4.155 1.130 457 -5.0 Flat; 2 reliefs 1/16	H118CP 30	Chevrolet	Big Block	4.280	1.640	725	22.0	.230 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
H120C 30 Ford Small Block 4.030 1.615 560 -5.0 Fiat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H122CL 30 Chevrolet Small Block 4.185 1.30 469 -5.0 Fiat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H122CL 30 Chevrolet Small Block 4.165 1.260 470 -5.0 Fiat; 2 reliefs 1/16 1/16 1/16 1/16 F 0.927 114 8-H124CL 30 Chevrolet Small Block 4.020 1.130 428 -5.0 Fiat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H124CL 30 Chevrolet Small Block 4.030 1.130 428 -5.0 Fiat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H124CL 40 Chevrolet Small Block 4.040 1.130 448 -5.0 Falt; 2 reliefs 1/16 1/16 </th <th>H118CP 60</th> <th>Chevrolet</th> <th>Big Block</th> <th>4.310</th> <th>1.640</th> <th>740</th> <th>20.0</th> <th>.210 dome; 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0.990</th> <th>175</th>	H118CP 60	Chevrolet	Big Block	4.310	1.640	740	20.0	.210 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
B+H22CL 30 Chevrolet Small Block 4.155 1.130 469 -5.0 Fiat: 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H122CL 40 Chevrolet Small Block 4.165 1.260 470 -5.0 Fiat: 2 reliefs 1/16	H120CP 30	Ford	Small Block	4.030	1.615	560	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.912	121
8+H122CL 60 Chevrolet Small Block 4.185 1.130 469 -5.0 Flat; 2 reliefs 1/16	8-H122CL 30	Chevrolet	Small Block	4.155	1.130	457	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	114
B-H122CL 30 Chevrolet Small Block 4.165 1.260 470 -5.0 Flat: 2 reliefs 1/16	8-H122CL 60	Chevrolet	Small Block	4.185	1.130	469	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	114
8-H123CL 40 Chevrolet Small Block 4.165 1.260 484 -5.0 Flat; 2 reliefs 1/16	8-H123CL 30	Chevrolet	Small Block	4,155	1,260	470	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.927	114
B+H124CL 20 Chevrolet Small Block 4.020 1.130 428 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 B+H124CL 30 Chevrolet Small Block 4.040 1.130 432 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 114 B+H24CL 60 Chevrolet Small Block 4.040 1.130 444 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 3/16 F 0.927 114 B+H126CP 30 Chevrolet Small Block 4.055 1.20 0dm; 2 reliefs 1/16 1/16 3/16 F 0.927 114 B+H13CL 30 Chevrolet Small Block 4.000 1.615 519 -15.0 .060 dish; 2 reliefs 1/16 1/16 3/16 F 0.927 114 B+H13CL 30 Chevrolet Small Block 4.020 1.130 442 118 .240 dome; 2 reliefs 1/16 1/16 3/16	8-H123CL 40	Chevrolet	Small Block	4.165	1.260	484	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	114
B-H124C1 30 Chevrolet Small Block 4.030 1.130 432 -5.0 Flat: 2 reliefs 1/16 1/16 3/16 F 0.927 114 B-H124C1 40 Chevrolet Small Block 4.040 1.130 443 -5.0 Flat: 2 reliefs 1/16 1/16 3/16 F 0.927 114 B-H125CL 30 Chevrolet Small Block 4.060 1.130 443 -5.0 Flat: 2 reliefs 1/16 </th <th>8-H124CL 20</th> <th>Chevrolet</th> <th>Small Block</th> <th>4 020</th> <th>1 130</th> <th>428</th> <th>-5.0</th> <th>Flat: 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0 927</th> <th>114</th>	8-H124CL 20	Chevrolet	Small Block	4 020	1 130	428	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0 927	114
B-H124CL 40 Chevrolet Small Block 4.040 1.130 436 -5.0 Flat; 2 relefs 1/16 1/16 3/16 F 0.927 114 B-H124CL 60 Chevrolet Small Block 4.060 1.130 444 -5.0 Flat; 2 relefs 1/16	8-H124CL 30	Chevrolet	Small Block	4.030	1.130	432	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	114
8+H124CL 60 Chevrolet Small Block 4.060 1.130 444 -5.0 Flar; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H124CL 30 Chevrolet Small Block 4.030 1.615 514 -15.0 0.60 dish; 2 reliefs 1/16 1/16 3/16 F 0.927 114 H132CP 30 Ford Small Block 4.000 1.615 519 -15.0 0.60 dish; 2 reliefs 1/16 1/16 3/16 F 0.912 121 8+H134CL 30 Chevrolet Small Block 4.000 1.130 432 11.8 2.40 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H134CL 40 Chevrolet Small Block 4.000 1.130 444 11.8 2.40 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H134CL 40 Chevrolet Small Block 4.040 1.130 444 11.8 2.40 dome; 2 reliefs 1/16 <td< th=""><th>8-H124CL 40</th><th>Chevrolet</th><th>Small Block</th><th>4.040</th><th>1.130</th><th>436</th><th>-5.0</th><th>Flat: 2 reliefs</th><th>1/16</th><th>1/16</th><th>3/16</th><th>F</th><th>0.927</th><th>114</th></td<>	8-H124CL 40	Chevrolet	Small Block	4.040	1.130	436	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	114
8-H125CL 30 Chevrolet Small Block 4.155 1.260 614 3.5 .120 dome; 2 reliefs 1/16 <th>8-H124CL 60</th> <th>Chevrolet</th> <th>Small Block</th> <th>4.060</th> <th>1.130</th> <th>444</th> <th>-5.0</th> <th>Flat; 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0.927</th> <th>114</th>	8-H124CL 60	Chevrolet	Small Block	4.060	1.130	444	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	114
H132CP 30 Ford Small Block 4.030 1.615 514 -15.0 .060 dish; 2 reliefs 1/16 1/16 3/16 F 0.912 121 8+H34CL Chevrolet Small Block 4.040 1.130 432 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H34CL Chevrolet Small Block 4.000 1.130 442 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H34CL 30 Chevrolet Small Block 4.030 1.130 444 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8+H34CL 40 Chevrolet Small Block 4.040 1.425 515 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 40 Chevrolet Small Block 4.040 1.425 530 -50 Flat; 2 reliefs 1/16 1/16	8-H125CL 30	Chevrolet	Small Block	4.155	1.260	514	3.5	.120 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	114
H132CP 40 Ford Small Block 4.000 1.615 519 -15.0 0.060 dish; 2 reliefs 1/16	H132CP 30	Ford	Small Block	4 030	1 615	514	-15.0	060 dish: 2 reliefs	1/16	1/16	3/16	F	0.912	121
SH134CL Chevrolet Small Block 4.000 1.130 432 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H134CL 20 Chevrolet Small Block 4.020 1.130 440 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H134CL 30 Chevrolet Small Block 4.030 1.130 444 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H134CL 40 Chevrolet Small Block 4.040 1.425 515 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 40 Chevrolet Small Block 4.040 1.425 530 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16	H132CP 40	Ford	Small Block	4.040	1.615	519	-15.0	.060 dish; 2 reliefs	1/16	1/16	3/16	F	0.912	121
B-H134CL 20 Chevrolet Small Block 4.000 1.130 440 11.8 2.40 Joine; 2 reliefs 1/16 1/16 3/16 F 0.32/ 114 8-H134CL 20 Chevrolet Small Block 4.030 1.130 440 11.8 2.40 Joine; 2 reliefs 1/16 1/16 3/16 F 0.927 114 8-H134CL 30 Chevrolet Small Block 4.030 1.425 515 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 113 H137CL 40 Chevrolet Small Block 4.040 1.425 520 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 30 Chevrolet Small Block 4.040 1.425 530 -50 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.040 1.425 539 -50 Flat; 2 reliefs 1/16 1/16	0 112401	Chouralat	Small Blook	4.000	1 1 2 0	400	11.0	040 domo: 0 roliofo	1/16	1/16	2/16	E	0.007	11/
H134CL 30 Entert block 4.050 1.135 444 11.8 2.40 dome; 2 reliefs 1/16 3/16 F 0.327 114 8-H134CL 40 Chevrolet Small Block 4.030 1.130 444 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 114 H137CL 30 Chevrolet Small Block 4.040 1.425 515 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 40 Chevrolet Small Block 4.040 1.425 530 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.060 1.425 534 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.060 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.	8-H134CL 20	Chevrolet	Small Block	4.000	1 130	432	11.0	240 dome: 2 reliefs	1/16	1/16	3/10	F	0.927	114
B-H134CL 40 Chevrolet Small Block 4.040 1.130 448 11.8 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 113 H137CL 40 Chevrolet Small Block 4.040 1.130 448 1.18 .240 dome; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 40 Chevrolet Small Block 4.040 1.425 520 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.040 1.425 530 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.000 1.090 393 -5.0 Flat; 2 reliefs 1/16 1/16	8-H134CL 30	Chevrolet	Small Block	4 030	1 130	444	11.0	240 dome: 2 reliefs	1/16	1/16	3/16	F	0.027	114
H137CL 30 Chevrolet Small Block 4.030 1.425 515 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 40 Chevrolet Small Block 4.040 1.425 520 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 60 Chevrolet Small Block 4.060 1.425 530 -12.0 Dish; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.030 1.425 534 -5.0 Flat; 2 reliefs 1/16 <th>8-H134CL 40</th> <th>Chevrolet</th> <th>Small Block</th> <th>4.040</th> <th>1.130</th> <th>448</th> <th>11.8</th> <th>.240 dome: 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0.927</th> <th>114</th>	8-H134CL 40	Chevrolet	Small Block	4.040	1.130	448	11.8	.240 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	114
H137CL 40 Sinal Block 4.000 1.425 513 -12.0 Dish, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H137CL 60 Chevrolet Small Block 4.040 1.425 530 -12.0 Dish, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 30 Chevrolet Small Block 4.040 1.425 530 -12.0 Dish, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.000 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.000 1.090 393 -5.0 Flat; 2 reliefs 1/16	H137CL 30	Chevrolet	Small Block	1 030	1 //25	515	-12.0	Dich: 2 reliefe	1/16	1/16	3/16	F	0.027	133
H137CL 60 Chevrolet Small Block 4.060 1.425 530 -12.0 Dish; 2 reliefs 1/16 3/16 F 0.927 133 H138CL 30 Chevrolet Small Block 4.030 1.425 534 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 3/16 F 0.927 133 H139CL 20 Ford Small Block 4.020 1.090 393 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 40 Ford Small Block 4.020 1.090 405 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 <t< th=""><th>H137CL 40</th><th>Chevrolet</th><th>Small Block</th><th>4 040</th><th>1 425</th><th>520</th><th>-12.0</th><th>Dish: 2 reliefs</th><th>1/16</th><th>1/16</th><th>3/16</th><th>F</th><th>0.927</th><th>133</th></t<>	H137CL 40	Chevrolet	Small Block	4 040	1 425	520	-12.0	Dish: 2 reliefs	1/16	1/16	3/16	F	0.927	133
H138CL 30 Chevrolet Small Block 4.030 1.425 534 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 40 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.060 1.425 549 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 3/16 F 0.927 133 H138CL 20 Ford Small Block 4.000 1.090 393 -5.0 Flat; 2 reliefs 1/16 1/16 1/18 F 0.912 110 H139CL 30 Ford Small Block 4.030 1.090 405 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 <t< th=""><th>H137CL 60</th><th>Chevrolet</th><th>Small Block</th><th>4.060</th><th>1.425</th><th>530</th><th>-12.0</th><th>Dish: 2 reliefs</th><th>1/16</th><th>1/16</th><th>3/16</th><th>F</th><th>0.927</th><th>133</th></t<>	H137CL 60	Chevrolet	Small Block	4.060	1.425	530	-12.0	Dish: 2 reliefs	1/16	1/16	3/16	F	0.927	133
H138CL 40 Chevrolet Small Block 4.040 1.425 539 -5.0 Flat, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Chevrolet Small Block 4.060 1.425 539 -5.0 Flat, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H138CL 60 Ford Small Block 4.000 1.425 539 -5.0 Flat, 2 reliefs 1/16 1/16 3/16 F 0.927 133 H139CL 20 Ford Small Block 4.000 1.090 401 -5.0 Flat, 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 60 Ford Small Block 4.000 1.090 409 -5.0 Flat, 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 60 Ford Small Block 4.000 1.260 454 -5.0 Flat, 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 20 Chevrolet Small Block 4.000	H138CL 30	Chevrolet	Small Block	4.030	1 / 25	52/	-5.0	Flat: 2 reliefe	1/16	1/16	3/16	F	0.027	122
H139CL 60 Chevrolet Small Block 4.060 1.425 549 -5.0 Flat; 2 reliefs 1/16 1/16 3/16 F 0.927 133 H139CL 20 Ford Small Block 4.000 1.090 393 -5.0 Flat; 2 reliefs 1/16 </th <th>H138CI 40</th> <th>Chevrolet</th> <th>Small Block</th> <th>4 040</th> <th>1 425</th> <th>539</th> <th>-5.0</th> <th>Flat: 2 reliefs</th> <th>1/16</th> <th>1/16</th> <th>3/16</th> <th>F</th> <th>0.927</th> <th>133</th>	H138CI 40	Chevrolet	Small Block	4 040	1 425	539	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	133
H139CL Ford Small Block 4.000 1.09 393 -5.0 Flat; 2 reliefs 1/16 1	H138CL 60	Chevrolet	Small Block	4,060	1.425	549	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	133
H139CL 20 Ford Small Block 4.000 1.000 400 -5.0 Flat; 2 reliefs 1/16	H139CI	Ford	Small Block	4 000	1 000	303	-5.0	Flat: 2 reliefe	1/16	1/16	1/8	F	0.012	110
H139CL 20 Ford Small Block 4.030 1.090 401 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 40 Ford Small Block 4.030 1.090 405 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/8 F 0.912 110 H139CL 60 Ford Small Block 4.040 1.090 409 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 20 Chevrolet Small Block 4.000 1.260 454 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 20 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 40 Chevrolet Small Block 4.040 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block	H139CL 20	Ford	Small Block	4.000	1.090	393 401	-5.0	Flat: 2 reliefs	1/16	1/16	1/0	F	0.912	110
H139CL 40 Ford Small Block 4.040 1.090 409 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.912 110 H139CL 60 Ford Small Block 4.060 1.090 409 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/8 F 0.912 110 H140CL Chevrolet Small Block 4.060 1.260 454 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/8 F 0.912 110 H140CL 20 Chevrolet Small Block 4.000 1.260 454 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 30 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 40 Chevrolet Small Block 4.000 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet	H139CL 30	Ford	Small Block	4 030	1.090	405	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.912	110
H139CL 60 Ford Small Block 4.060 1.090 417 -5.0 Flat; 2 reliefs 1/16 <	H139CL 40	Ford	Small Block	4.040	1.090	409	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.912	110
H140CL Chevrolet Small Block 4.000 1.260 454 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 20 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/18 F 0.927 126 H140CL 30 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/16 1/18 F 0.927 126 H140CL 40 Chevrolet Small Block 4.030 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16	H139CL 60	Ford	Small Block	4.060	1.090	417	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.912	110
H140CL 20 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 30 Chevrolet Small Block 4.020 1.260 464 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 40 Chevrolet Small Block 4.030 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.040 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 0 Chevrolet Small Block 4.000 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block <th>H140CI</th> <th>Chevrolet</th> <th>Small Block</th> <th>4 000</th> <th>1 260</th> <th>454</th> <th>-5.0</th> <th>Flat: 2 reliefe</th> <th>1/16</th> <th>1/16</th> <th>1/8</th> <th>F</th> <th>0.927</th> <th>126</th>	H140CI	Chevrolet	Small Block	4 000	1 260	454	-5.0	Flat: 2 reliefe	1/16	1/16	1/8	F	0.927	126
H140CL 30 Chevrolet Small Block 4.030 1.260 469 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 40 Chevrolet Small Block 4.040 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.000 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.000 1.260 484 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.000 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block	H140CL 20	Chevrolet	Small Block	4,020	1.260	464	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.927	126
H140CL 40 Chevrolet Small Block 4.040 1.260 474 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.040 1.260 484 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H140CL 60 Chevrolet Small Block 4.000 1.260 484 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 30 Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.000 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.000 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Blo	H140CL 30	Chevrolet	Small Block	4.030	1.260	469	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.927	126
H140CL 60 Chevrolet Small Block 4.060 1.260 484 -5.0 Flat; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 30 Chevrolet Small Block 4.030 1.260 491 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL Chevrolet Small Block 4.000 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16	H140CL 40	Chevrolet	Small Block	4.040	1.260	474	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	126
H141CL Chevrolet Small Block 4.000 1.260 476 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 30 Chevrolet Small Block 4.030 1.260 491 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block 4.060 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL Chevrolet Small Block 4.000 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16	H140CL 60	Chevrolet	Small Block	4.060	1.260	484	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	126
H141CL 30 Chevrolet Small Block 4.030 1.260 491 3.5 120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 40 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block 4.040 1.260 496 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block 4.060 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL Chevrolet Small Block 4.000 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.030 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16	H141CL	Chevrolet	Small Block	4,000	1,260	476	3.5	.120 dome: 2 reliefs	1/16	1/16	1/8	F	0.927	126
H141CL 40 H141CL 60 Chevrolet Chevrolet Small Block 4.040 1.260 496 3.5 120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H141CL 60 Chevrolet Small Block 4.060 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL Chevrolet Small Block 4.000 1.260 498 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 30 Chevrolet Small Block 4.030 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16	H141CL 30	Chevrolet	Small Block	4,030	1,260	491	3.5	.120 dome: 2 reliefs	1/16	1/16	1/8	F	0.927	126
H141CL 60 Chevrolet Small Block 4.060 1.260 506 3.5 .120 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL Chevrolet Small Block 4.000 1.260 498 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 30 Chevrolet Small Block 4.030 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126	H141CL 40	Chevrolet	Small Block	4.040	1.260	496	3.5	.120 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
H142CL Chevrolet Small Block 4.000 1.260 498 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 30 Chevrolet Small Block 4.030 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126	H141CL 60	Chevrolet	Small Block	4.060	1.260	506	3.5	.120 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
H142CL 30 Chevrolet Small Block 4.030 1.260 513 11.8 .285 dome; 2 reliefs 1/16 1/16 1/18 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126 H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 F 0.927 126	H142CI	Chevrolet	Small Block	4,000	1,260	498	11.8	285 dome: 2 reliefs	1/16	1/16	1/8	F	0.927	126
H142CL 40 Chevrolet Small Block 4.040 1.260 518 11.8 .285 dome; 2 reliefs 1/16 1/16 1/8 F 0.927 126	H142CL 30	Chevrolet	Small Block	4,030	1.260	513	11.8	.285 dome: 2 reliefs	1/16	1/16	1/8	F	0.927	126
	H142CL 40	Chevrolet	Small Block	4.040	1.260	518	11.8	.285 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126



Part	En	igine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	voiume	Snape	Ring	Ring	Ring	Style (S)	Dia.	weight
H142CL 60	Chevrolet	Small Block	4.060	1.260	528	11.8	.285 dome; 2 reliefs	1/16	1/16	1/8	-	0.927	126
H144CP	Chevrolet	Big Block	4.466	1.645	709 773	6.2	.100 dome; 1 relief	2.0MM	1.5MM	4.0MM	F	0.990	175 175
H144CP 60	Chevrolet	Big Block	4.526	1.645	788	6.2	.100 dome; 1 relief	2.0MM	1.5MM	4.0MM	F	0.990	175
H146CL	Ford	Small Block	4.000	1.090	410	-5.0	Flat: 2 reliefs	1/16	1/16	1/8	F	0.927	114
H146CL 20	Ford	Small Block	4.020	1.090	419	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	114
H146CL 30	Ford	Small Block	4.030	1.090	423	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	114
H146CL 40	Ford	Small Block	4.040	1.090	427	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	114
H273CP H273CP 20	Ford	Small Block	4.000	1.605	579 589	-8.0 -8.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.912	152 152
H273CP 30	Ford	Small Block	4.030	1.605	594	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H273CP 40	Ford	Small Block	4.040	1.605	599	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H273CP 60	Ford	Small Block	4.060	1.605	609	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H336CP	Ford	Small Block	4.000	1.772	619	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H336CP 20	Ford	Small Block	4.020	1.772	634	-12.0	Flat: 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.912	152
H336CP 40	Ford	Small Block	4.040	1.772	639	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H336CP 60	Ford	Small Block	4.060	1.772	649	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
H345DCP	Chevrolet	Small Block	4.000	1.548	529	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H345DCP 20	Chevrolet	Small Block	4.020	1.548	539	-6.9	Flat; 4 reliefs	5/64 5/64	5/64	3/16	F	0.927	149 140
H345DCP 30	Chevrolet	Small Block	4.030	1.548	549	-6.9	Flat: 4 reliefs	5/64	5/64	3/16	F	0.927	149
H345DCP 60	Chevrolet	Small Block	4.060	1.548	559	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H392NCP	Buick	V8	4.312	1.985	771	-23.0	.130 dish; 4 reliefs	5/64	5/64	3/16	Р	0.999	223
H392NCP 30	Buick	V8	4.342	1.985	786	-23.0	.130 dish; 4 reliefs	5/64	5/64	3/16	Р	0.999	223
H392NCP 40 H392NCP 60	BUICK	V8 V8	4.352	1.985	791 801	-23.0 -23.0	.130 dish; 4 reliefs	5/64 5/64	5/64 5/64	3/16	P P	0.999	223
H400CP	Chevrolet	Small Block	4 125	1.560	610	-6.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.927	144
H400CP 20	Chevrolet	Small Block	4.145	1.560	620	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
H400CP 30	Chevrolet	Small Block	4.155	1.560	625	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
H400CP 40	Chevrolet	Small Block	4.165	1.560	630 640	-6.0	Flat; 4 reliefs	5/64	5/64 5/64	3/16	P	0.927	144
H405CP	Chrysler	Small Block	4.100	1.500	581	-0.0	Flat: 4 reliefs	5/64	5/64	3/16	 P	0.927	15/
H405CP 20	Chrysler	Small Block	4.000	1.637	591	-10.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.984	154
H405CP 30	Chrysler	Small Block	4.030	1.637	596	-10.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.984	154
H405CP 40	Chrysler	Small Block	4.040	1.637	601	-10.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.984	154
H405CP 60	Chrysler	Small Block	4.060	1.637	510	-10.0	Flat; 4 reliefs	5/64	5/64	3/16	<u>Р</u>	0.984	154
H423DCP H423DCP 20	Chevrolet	Small Block	4.000	1.548	512	-12.3	.098 dish; 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	149 149
H423DCP 30	Chevrolet	Small Block	4.030	1.548	526	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H423DCP 40	Chevrolet	Small Block	4.040	1.548	531	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H423DCP 60	Chevrolet	Small Block	4.060	1.548	541	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	-	0.927	149
H423NP 20	Chevrolet	Small Block	4.020	1.540	531	-10.0	.100 dish; 4 reliefs	5/64	5/64	3/16	<u>Р</u>	0.927	149
H426CP	Chevrolet	Big Block	4.250 4.270	1.640	659	10.5 10.5	.100 dome; 1 relief	5/64 5/64	5/64 5/64	3/16	F	0.990	1/5 175
H426CP 30	Chevrolet	Big Block	4.280	1.640	674	10.5	.100 dome; 1 relief	5/64	5/64	3/16	F	0.990	175
H426CP 40	Chevrolet	Big Block	4.290	1.640	679	10.5	.100 dome; 1 relief	5/64	5/64	3/16	F	0.990	175
H426CP 60	Chevrolet	Big Block	4.310	1.640	689	10.5	.100 dome; 1 relief	5/64	5/64 5/64	3/16	F	0.990	175
H471CD 20	Buick		4.330	1.040	709 577	20.0		5/04	5/04	2/16	<u>г</u>	0.990	1/5
H471CP 30	Buick	V6 V6	3.995 4.005	1.808	582	-30.0	.276 dish	5/64	5/64 5/64	3/16	P	0.939	165
H471CP 60	Buick	V6	4.025	1.808	592	-30.0	.276 dish	5/64	5/64	3/16	P	0.939	165
H521ACP	Buick	V6	3.800	1.800	506	-24.0	.255 dish	5/64	5/64	3/16	Р	0.939	156
H521ACP 20	Buick	V6	3.820	1.800	516	-24.0	.255 dish	5/64	5/64	3/16	Р	0.939	156
H521ACP 30	Buick	V6 V6	3.830	1.800	521 526	-24.0 -24.0	.255 dISN 255 dish	5/64 5/64	5/64 5/64	3/16	P P	0.939	156 156
H521ACP 60	Buick	V6	3.860	1.800	536	-24.0	.255 dish	5/64	5/64	3/16	P	0.939	156
H522CP	Buick	V6	3.800	1.855	547	-14.0	.190 dish; 4 reliefs	5/64	5/64	3/16	P	0.939	156
H522CP 30	Buick	V6	3.830	1.855	562	-14.0	.190 dish; 4 reliefs	5/64	5/64	3/16	Р	0.939	156
H522CP 40	Buick	V6	3.840	1.855	567	-14.0	.190 dish; 4 reliefs	5/64	5/64	3/16	Р	0.939	156
H534CP	Chevrolet	Small Block	3.736	1.560	472	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
H534CP 20	Chevrolet	Small Block	3.756	1.560	482 487	-5.0	Flat: 4 reliefs	5/64	5/64 5/64	3/16	P	0.927	144 144
H534CP 40	Chevrolet	Small Block	3.776	1.560	492	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
H534CP 60	Chevrolet	Small Block	3.796	1.560	502	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144



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Part	En	gine	Bore	Comp.	(grama)	Dome	Dome	Top	2nd Ding	Ding	PIN Style (S)	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grains)	volume	Snape	ning	піпд	піід	Style (S)	Dia.	weight
H535CP	Ford	429, 460	4.360	1.752	753	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
H535CP 20	Ford	429, 460	4.380	1.752	763	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
H535CP 30	Ford	429, 460	4.390	1.752	768	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	P	1.040	229
H535CP 40	Ford	429, 460	4.400	1.752	773	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
H535CP 60	Ford	429, 460	4.420	1.752	783	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
H552CP 30	Chevrolet	Big Block	4.280	1.525	633	11.2	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H552CP 60	Chevrolet	Big Block	4.310	1.525	651	11.2	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H552CP 100	Chevrolet	Big Block	4.350	1.525	675	11.2	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H555CP	Ford	Cleveland	4.000	1.645	569	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
H555CP 20	Ford	Cleveland	4.020	1.645	579	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
H555CP 30	Ford	Cleveland	4.030	1.645	584	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
H555CP 40	Ford	Cleveland	4.040	1.645	589	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
H555CP 60	Ford	Cleveland	4.060	1.645	599	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
H581CP	Chevrolet	Big Block	4.250	1.640	725	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H581CP 20	Chevrolet	Big Block	4.270	1.640	735	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H581CP 30	Chevrolet	Big Block	4.280	1.640	740	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H581CP 40	Chevrolet	Big Block	4.290	1.640	745	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H581CP 60	Chevrolet	Big Block	4.310	1.640	755	30.5	.300 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H581CP 100	Chevrolet	Big Block	4.350	1.640	775	30.5	.300 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H591CP	Ford	4.6L	3.551	1.214	349	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
H591CP .25MM	Ford	4.6L	3.561	1.214	353	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
H591CP .50MM	Ford	4.6L	3.571	1.214	357	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	P	0.866	107
H591CP ./5MM	Ford	4.6L	3.581	1.214	361	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
HOUTCP 1.00MM	Foru	4.0L	3.591	1.214	305	-10.5	.152 X 2.70 Ula. DISI	IVIIVIC. I	IVIIVIC. I	3.011111	۲ -	0.866	107
H601P	Chevrolet	Small Block	4.125	1.560	597	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
H601P 20	Chevrolet	Small Block	4.145	1.560	607	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	P	0.927	144
H601P 30	Chevrolet	Small Block	4.100	1.500	617	-12.0	.115 dish; 4 reliefs	5/04 5/64	5/04 5/64	3/10	Г D	0.927	144
H601P 40	Chevrolet	Small Block	4.105	1.500	627	-12.5	115 dish; 4 reliefs	5/64	5/64	3/16	P	0.927	1//
	Chevrolet	Dia Diock	4.010	1.500	027	01.0		5/04	5/04	0/10	-	0.027	175
H603CP 60	Chevrolet	BIG BIOCK	4.310	1.525	6// 701	21.0	.245 dome; 2 reliefs	5/64 5/64	5/64	3/10	F	0.990	175
	Cileviolei	DIG DIOCK	4.330	1.020	701	21.0		5/04	1 51414	0.01414		0.990	175
HOI4CP	Ford	4.6L	3.551	1.214	349	-3.0	.060 x 2.68" dia. dish			3.01/11/1	г с	0.866	107
H61/CP 75MM	Ford	4.0L	3.571	1.214	361	-3.0	.000 X 2.00 Ula. UISI	1.5IVIIVI 1.5MM	1.5MM	3.01VIIVI	F	0.000	107
H614CP 1.00MM	Ford	4.6L	3.591	1.214	365	-3.0	.060 x 2.68" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
H615CP	Chevrolet	Small Block	4 125	1 4 2 5	569	-12.5	115 dish: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H615CP 20	Chevrolet	Small Block	4 145	1 425	574	-12.5	115 dish: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H615CP 30	Chevrolet	Small Block	4.155	1.425	579	-12.5	.115 dish: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H615CP 40	Chevrolet	Small Block	4.165	1.425	584	-12.5	.115 dish: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H615CP 60	Chevrolet	Small Block	4.185	1.425	594	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	159
H616CP	Chevrolet	Small Block	4.125	1.425	578	-6.0	Flat: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H616CP 20	Chevrolet	Small Block	4.145	1.425	588	-6.0	Flat: 4 reliefs	5/64	5/64	3/16	F	0.927	159
H616CP 30	Chevrolet	Small Block	4.155	1.425	593	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	159
H616CP 40	Chevrolet	Small Block	4.165	1.425	598	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	159
H616CP 60	Chevrolet	Small Block	4.185	1.425	608	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	159
H617CP	Chevrolet	Small Block	4.000	1.560	601	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H617CP 30	Chevrolet	Small Block	4.030	1.560	616	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H617CP 40	Chevrolet	Small Block	4.040	1.560	621	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H61/CP 60	Chevrolet	Small Block	4.060	1.560	631	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H618CP	Chevrolet	Small Block	4.000	1.560	581	3.5	.125 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H618CP 20	Chevrolet	Small Block	4.020	1.560	591	3.5	.125 dome; 2 reliefs	5/64	5/64	3/16		0.927	159
H618CP 30	Chevrolet	Small Block	4.030	1.560	596	3.5	. 125 dome; 2 reliefs	5/64	5/64	3/10	г г	0.927	159
H618CP 60	Chevrolet	Small Block	4.040	1.500	611	3.5	125 dome: 2 reliefs	5/64	5/64	3/10	F	0.927	159
	Chevrolet	Creall Diock	4.455	1.000	504	0.5	100 domes 0 reliefe	5/04	5/04	0/10	-	0.027	100
H623CP 30	Chevrolet	Small Block	4.155	1.425	564	3.5	.100 dome; 2 reliefs	5/64	5/64	3/16		0.927	159
H623CP 40	Chevrolet	Small Block	4.100	1.420	509	3.5	100 dome: 2 reliefs	5/64	5/64	3/10	F	0.927	159
	Chourslat	Small Diook	4.000	1.405	E01	0.0	100 dome, 2 reliefs	5/64	5/04	2/10	, 	0.027	150
H624CP 30	Chevrolet	Small Block	4.030	1.425	521	3.5	. 100 dome; 2 reliefs	5/64	5/64	3/10	г г	0.927	159
H624CP 40	Chevrolet	Small Block	4.040	1.425	520	3.5	100 dome; 2 reliefs	5/64	5/64	3/10	Г С	0.927	159
1102407 00	Cheviolet		4.000	1.420	000	0.0		5/04	5/04	0/10	r F	0.927	109
H625CP	Chevrolet	Big Block	4.250	1.640	641	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H625CP 20	Chevrolet	DIG BIOCK	4.2/0	1.040	001	-2.0	Flat; ∠ reliefs	5/64	5/04	3/10	F	0.990	175
H625CP 40	Chevrolet	Big Block	4.20U	1.040	000	-2.0	Flat: 2 reliefs	5/64	5/64	0/10 2/16	F	0.990	175
H625CP 60	Chevrolet	Big Block	4,230	1.040	671	-2.0	Flat: 2 reliefe	5/64	5/64	3/16	F	0.990	175
	Oneviolet	Dig Diook	4.010	1.040	0/1	2.0	1 iat, 2 101010	0,07	0,04	0/10	1	0.000	175



Part	En	gine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
H625CP 100	Chevrolet	Big Block	4.350	1.640	691	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H631CP	Chevrolet	Small Block	4.000	1.560	552	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H631CP 20	Chevrolet	Small Block	4.020	1.560	562 567	-5.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
H631CP 40	Chevrolet	Small Block	4.040	1.560	572	-5.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	159
H631CP 60	Chevrolet	Small Block	4.060	1.560	582	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H634CP 30	Chevrolet	Small Block	4.155	1.425	586	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H634CP 40	Chevrolet	Small Block	4.165	1.425	591	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H634CP 60	Chevrolet	Small Block	4.185	1.425	601	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H635CP 30	Chevrolet	Small Block	4.030	1.425	536 541	9.5 9.5	.200 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159 159
H635CP 60	Chevrolet	Small Block	4.060	1.425	551	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H645ACP 20	Chevrolet	Small Block	4.020	1.548	539	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H645ACP 30	Chevrolet	Small Block	4.030	1.548	544	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H645ACP 40	Chevrolet	Small Block	4.040	1.548	549	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H645DCP 20	Chevrolet	Small Block	4.020	1.548	539	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
H645DCP 30	Chevrolet	Small Block	4.030	1.548	544 549	-6.9 -6.9	Flat: 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	149 149
H645NCP	Chevrolet	V6	4.000	1.560	536	-5.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.927	144
H645NCP 20	Chevrolet	V6	4.020	1.560	546	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
H645NCP 30	Chevrolet	V6	4.030	1.560	551	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
H645NCP 40	Chevrolet	V6 V6	4.040 4.060	1.560	556 566	-5.0 -5.0	Flat: 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	Р Р	0.927	144 144
H660CP	Chevrolet	Small Block	4.000	1.675	587	-4.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	159
H660CP 20	Chevrolet	Small Block	4.020	1.675	597	-4.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H660CP 30	Chevrolet	Small Block	4.030	1.675	602	-4.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
H660CP 40	Chevrolet	Small Block	4.040	1.675	607 617	-4.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
HEEODCP	Chevrolet	Small Block	4.000	1.675	5/0	-4.0	Flat: 4 reliefs	1 5MM	1 5MM	3.0MM	F	0.927	1/0
H669DCP 30	Chevrolet	Small Block	4.000	1.560	563	-6.9	Flat; 4 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	149
H669DCP 40	Chevrolet	Small Block	4.040	1.560	568	-6.9	Flat; 4 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	149
H669DCP 60	Chevrolet	Small Block	4.060	1.560	577	-6.9	Flat; 4 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	149
H693CP	Chevrolet	Big Block	4.250 4.270	1.640	708 718	22.0 22.0	.230 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990	175 175
H693CP 30	Chevrolet	Big Block	4.280	1.640	723	22.0	.230 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H693CP 40	Chevrolet	Big Block	4.290	1.640	728	22.0	.230 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
H693CP 60	Chevrolet	Big Block	4.310	1.640	738	20.0	.210 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990	175 175
H859CP	Chevrolet	Small Block	4.000	1.040	496	-12.0	110 dish: 2 reliefs	5/64	5/64	3/16	F	0.000	133
H859CP 20	Chevrolet	Small Block	4.020	1.425	506	-12.0	.110 dish; 2 reliefs	5/64	5/64	3/16	F	0.927	133
H859CP 30	Chevrolet	Small Block	4.030	1.425	511	-12.0	.110 dish; 2 reliefs	5/64	5/64	3/16	F	0.927	133
	Chevrolet	Small Block	4.040	1.425	516	-12.0	.110 dish; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	133
H860CP	Chevrolet	Small Block	4.000	1.425	515	-12.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	133
H860CP 20	Chevrolet	Small Block	4.020	1.425	525	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
H860CP 30	Chevrolet	Small Block	4.030	1.425	530	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
	Chevrolet	Small Block	4.040	1.425	535	-5.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	133
H868CD	Chevrolet	Gen III V8	3.807	1.420	147	-5.0	Flat	1 5MM	1.5MM	3 0MM	P	0.927	151
H868CP .25MM	Chevrolet	Gen III V8	3.917	1.328	451	0.0	Flat	1.5MM	1.5MM	3.0MM	P	0.945	151
H869CP	Chevrolet	Small Block	4.125	1.560	577	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
H869CP 30	Chevrolet	Small Block	4.155	1.560	592	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
	Chevrolet	Small Block	4.165	1.560	597 607	-5.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	133
H870CP 30	Chevrolet	Small Block	4 155	1,560	602	3.5	120 dome: 2 reliefe	5/64	5/64	3/16	F	0.927	133
H870CP 40	Chevrolet	Small Block	4.165	1.560	607	3.5	.120 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	133
H870CP 60	Chevrolet	Small Block	4.185	1.560	617	3.5	.120 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	133
H890CP	Chevrolet	Small Block	4.000	1.425	504	-25.0	Dish	5/64	5/64	3/16	F	0.927	133
H890CP 30 H890CP 40	Chevrolet	Small Block	4.030	1.425	519 524	-25.0	Dish	5/64 5/64	5/64 5/64	3/16	F	0.927	133
H890CP 60	Chevrolet	Small Block	4.060	1.425	534	-25.0	Dish	5/64	5/64	3/16	F	0.927	133
L-2165F	Chevrolet	Small Block	4.000	1.671	600	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
L-2165F 20	Chevrolet	Small Block	4.020	1.671	609	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
L-2165F 30	Chevrolet	Small Block	4.030	1.671	614	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144 144
L-2100F 40	CITEVIOLEL	Small DIUCK	4.040	1.0/1	019	-0.4	i iai, 4 ielleis	5/04	5/04	3/10	Г	0.927	144



Part	En	igine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
L-2165F 60	Chevrolet	Small Block	4.060	1.671	628	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	<u>Р</u>	0.927	144
L-2166NF 20	Chevrolet	Small Block	4.000	1.675	576 585	5.3 5.3	.125 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	P	0.927	144 144
L-2166NF 30	Chevrolet	Small Block	4.030	1.675	590	5.3	.125 dome; 2 reliefs	5/64	5/64	3/16	Р	0.927	144
L-2166NF 40	Chevrolet	Small Block	4.040	1.675	595 603	5.3	.125 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	P	0.927	144 144
L-2100NF 00	Chevrolet	Small Block	4.000	1.805	631	15.4	430 dome	1/16	1/16	1/8	F	0.927	159
L-2210AF 60	Chevrolet	Small Block	4.060	1.805	647	15.2	.410 dome	1/16	1/16	1/8	F	0.927	159
L-2240NF	Chevrolet	Big Block	4.094	1.760	703	21.0	.182 dome	5/64	5/64	3/16	Р	0.990	154
L-2240NF 30	Chevrolet	BIG BIOCK Big Block	4.124 4.134	1.760	/18 723	21.0 21.0	.182 dome	5/64 5/64	5/64 5/64	3/16	P	0.990	154 154
L-2240NF 60	Chevrolet	Big Block	4.154	1.760	733	21.0	.182 dome	5/64	5/64	3/16	P	0.990	154
L-2242NF 30	Chevrolet	Big Block	4.124	1.765	668	38.3	.335 dome	5/64	5/64	3/16	Р	0.990	154
L-2242NF 40	Chevrolet Chevrolet	Big Block Big Block	4.134 4 154	1.765 1.765	672 681	37.9 37.1	.330 dome	5/64 5/64	5/64 5/64	3/16 3/16	P	0.990	154 154
L-2252YF 30	Chevrolet	Small Block	4.030	1.560	601	11.0	.220 dome	1/16	1/16	1/8	F	0.927	159
L-2252YF 40	Chevrolet	Small Block	4.040	1.560	606	10.6	.213 dome	1/16	1/16	1/8	F	0.927	159
L-2252YF 60	Chevrolet	Small Block	4.060	1.560	617	10.2	.200 dome	1/16	1/16	1/8	F	0.927	159
L-2256F	Chevrolet Chevrolet	Small Block	4.000 4.020	1.563	596 603	-6.1 -6.1	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	P	0.927	144 144
L-2256F 30	Chevrolet	Small Block	4.030	1.563	607	-6.1	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
L-2256F 40	Chevrolet	Small Block	4.040	1.563	611	-6.1	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
L-2250F 00	Pontiac	Vg	4.000	1.505	580	-0.1	Flat: 4 reliefs	5/64	5/64	3/10	P	0.927	144
L-2262F 20	Pontiac	V8 V8	4.120	1.714	599	-6.7	Flat; 4 reliefs	5/64	5/64	3/16	P	0.980	194
L-2262F 30	Pontiac	V8	4.150	1.714	604	-6.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.980	194
L-2262F 40 L-2262F 60	Pontiac	V8 V8	4.160 4.180	1.714	609 620	-6.7 -6.7	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	P	0.980	194 194
L-2266F	Chrysler	Big Block	4.320	1.991	835	0.0	Flat	5/64	5/64	3/16	Р	1.220	218
L-2266F 30	Chrysler	Big Block	4.350	1.991	855	0.0	Flat	5/64	5/64	3/16	Р	1.220	218
L-2266F 40	Chrysler	Big Block Big Block	4.360 4.380	1.991	862 875	0.0	Flat	5/64 5/64	5/64 5/64	3/16	P	1.220	218
L-2268NF 30	Chevrolet	Big Block	4.280	1.765	705	35.5	.266 dome	5/64	5/64	3/16	Р	0.990	154
L-2268NF 60	Chevrolet	Big Block	4.310	1.765	719	34.2	.255 dome	5/64	5/64	3/16	Р	0.990	154
L-2279NF 30 L-2279NF 60	Pontiac Pontiac	V8 V8	4.151 4.181	1.715 1.715	589 605	10.0 8.9	.225 dome .190 dome	1/16 1/16	1/16 1/16	1/8 1/8	F	0.980 0.980	194 194
L-2291F	Ford	390, 427, 428	4.050	1.776	633	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
L-2291F 20	Ford	390, 427, 428	4.070	1.776	644	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
L-2291F 30 L-2291F 40	Ford	390, 427, 428 390, 427, 428	4.080 4.090	1.776	650 656	-10.0	Flat; 4 reliefs	5/64 5/64	3/32	3/16	F	0.975	151
L-2291F 60	Ford	390, 427, 428	4.110	1.776	667	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
L-2295F 30	Chrysler Chrysler	Big Block	4.350 4.380	2.029	826 836	12.1 11 1	.140 dome	1/16 1/16	1/16 1/16	3/16 3/16	F	1.094 1.094	191 191
L-2300NF	Chevrolet	Big Block	4.250	1.767	777	16.8	.140 dome	5/64	5/64	3/16	P	0.990	154
L-2300NF 30	Chevrolet	Big Block	4.280	1.767	794	16.8	.140 dome	5/64	5/64	3/16	Р	0.990	154
L-2300NF 40 L-2300NF 60	Chevrolet Chevrolet	Big Block Big Block	4.290 4.310	1.767 1.767	800 810	16.8 16.8	.140 dome .140 dome	5/64 5/64	5/64 5/64	3/16 3/16	P	0.990 0.990	154 154
L-2303NF	Ford	390, 427, 428	4.130	1.674	672	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	F	0.975	151
L-2303NF 30	Ford	390, 427, 428	4.160	1.674	689	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	F	0.975	151
L-2303NF 40 L-2303NF 60	Ford Ford	390, 427, 428 390, 427, 428	4.170 4.190	1.674 1.674	695 706	-10.3 -10.3	.085 dish; 4 reliefs .085 dish: 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.975 0.975	151 151
L-2304F	Chevrolet	Small Block	4.000	1.560	571	2.4	.100 dome	5/64	5/64	3/16	Р	0.927	159
L-2304F 30	Chevrolet	Small Block	4.030	1.560	583	2.4	.100 dome	5/64	5/64	3/16	Р	0.927	159
L-2304F 60	Chevrolet	Small Block	4.060	1.560	597	2.4	.100 dome	5/64	5/64	3/16	<u>Р</u>	0.927	159
L-2307AF	Chevrolet	Big Block	4.250 4.280	1.645	735	50.0 50.0	.580 dome	1/16	1/16	3/16	F	0.990	175
L-2307AF 60	Chevrolet	Big Block	4.310	1.645	751	50.0	.580 dome	1/16	1/16	3/16	F	0.990	175
L-2308AF 30 L-2308AF 60	Chevrolet Chevrolet	Big Block Big Block	4.280 4.310	1.760 1.760	748 764	50.0 50.0	.585 dome; 2 reliefs .585 dome; 2 reliefs	1/16 1/16	1/16 1/16	3/16 3/16	F F	0.990 0.990	175 175
L-2315NF 30	Chrysler	Big Block	4.280	1.920	781	0.0	Flat	5/64	5/64	3/16	Р	1.220	218
L-2315NF 40	Chrysler	Big Block	4.290	1.920	787	0.0	Flat	5/64	5/64	3/16	P	1.220	218
L-2315NF 00	Chrysler	Small Block	4.310	1.920	72/	-7.5	Flat: 2 roliofe	5/64	5/64	3/10	F	0.984	∠10 15/
L-2316F 30	Chrvsler	Small Block	4.070	1.840	729	-7.5	Flat: 2 reliefs	5/64	5/64	3/16	F	0.984	154



Part Number	En	gine Family	Bore Dia.	Comp. Dist	Weight (grams)	Dome Volume	Dome Shape	Top Ring	2nd Ring	Oil Ring	Pin Style (S)	Pin Dia.	Pin Weight
L-2316F 40	Chrysler	Small Block	4.080	1.840	734	-7.5	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
L-2320F	Oldsmobile	V8	4.057	1.612	641	0.0	Flat	5/64	5/64	3/16	P	0.980	194
L-2320F 30	Oldsmobile	V8	4.087	1.612	655	0.0	Flat	5/64	5/64	3/16	P	0.980	194
L-2321F 30	Oldsmobile	V8 V8	4.087	1.735	674	-5.8	.076 x 2.44° dia. dish	5/64	5/64	3/16	<u>Р</u>	0.980	194
L-2323F 30	Oldsmobile	V8	4.155	1.735	690	-18.0	.142 dish	5/64	5/64	3/16	P	0.980	187
L-2323F 40 L-2323F 60	Oldsmobile	V8 V8	4.165 4.185	1.735 1.735	696 707	-18.0 -18.0	.142 dish .142 dish	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.980 0.980	187 187
L-2328NF 30	Chevrolet	Big Block	4.155	1.765	680	36.6	.319 dome	5/64	5/64	3/16	Р	0.990	154
L-2328NF 60	Chevrolet	Big Block	4.185	1.765	697	36.6	.319 dome	5/64	5/64	3/16	P	0.990	154
L-2349F 30	Chevrolet	Big Block	4.280	1.645	661	29.4	.221 dome	5/64	5/64	3/16	P	0.990	154
L-2349F 60	Chevrolet	Big Block	4.310	1.645	674	27.9	.210 dome	5/64	5/64	3/16	P	0.990	154
L-2352F 30 L-2352F 40	Chevrolet	Small Block	4.155 4.165	1.555	620 624	-14.0	.083 dish; 4 reliefs	5/64 5/64	5/64 5/64	3/16	P P	0.927	159
L-2352F 60	Chevrolet	Small Block	4.185	1.555	633	-14.0	.083 dish; 4 reliefs	5/64	5/64	3/16	P	0.927	159
L-2353F 30 L-2353F 40	Buick Buick	V8 V8	4.342 4.352	1.975 1.975	762 768	-27.8 -27.8	.156 x 3.610" dia. dish .156 x 3.610" dia. dish	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.999	223 223
L-2355F L-2355F 30	Chrysler Chrysler	Big Block Big Block	4.320 4.350	2.061 2.061	859 879	-7.0 -7.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	P P	1.220 1.220	218 218
L-2355F 40	Chrysler	Big Block	4.360	2.061	886	-7.0	Flat; 4 reliefs	5/64	5/64	3/16	P	1.220	218
L-2355F 60	Chrysler	BIG BIOCK	4.380	2.061	580	-7.0	Flat; 4 reliefs	5/64	5/64	3/16	<u>Р</u>	0.980	218 194
L-2359NF 30	Pontiac	V8 V8	4.181	1.497	595	-6.7	Flat; 4 reliefs	5/64	1/16	3/16	P	0.980	194
L-2359NF 40 L-2359NF 60	Pontiac Pontiac	V8 V8	4.191 4.211	1.497 1.497	600 609	-6.7 -6.7	Flat; 4 reliefs Flat: 4 reliefs	5/64 5/64	1/16 1/16	3/16 3/16	P P	0.980 0.980	194 194
L-2366F	Ford	429, 460	4.360	1.890	807	-1.5	Flat; 1 relief	5/64	5/64	3/16	F	1.040	182
L-2366F 30 L-2366F 40	Ford Ford	429, 460 429, 460	4.390 4.400	1.890 1.890	822 828	-1.5 -1.5	Flat; 1 relief Flat: 1 relief	5/64 5/64	5/64 5/64	3/16 3/16	F	1.040 1.040	182 182
L-2377F	Chevrolet	Big Block	4.250	1.640	717	-4.9	Flat; 2 reliefs; Chamfer	5/64	5/64	3/16	P	0.990	154
L-2377F 20	Chevrolet	Big Block	4.270 4.280	1.640 1.640	728 733	-4.9 -4 9	Flat; 2 reliefs; Chamfer	5/64 5/64	5/64 5/64	3/16 3/16	P	0.990	154 154
L-2377F 40	Chevrolet	Big Block	4.290	1.640	738	-4.9	Flat; 2 reliefs; Chamfer	5/64	5/64	3/16	P	0.990	154
L-2377F 60	Eord	Big Block	4.310	1.640	608	-4.9	Flat; 2 reliefs; Chamter	5/64	5/64	3/16	<u>Р</u>	0.990	154
L-2379F 30	Ford	Cleveland	4.000	1.647	623	-1.5	Flat; 2 reliefs	5/64	5/64	3/16	P	0.912	143
L-2379F 40	Ford	Cleveland	4.040	1.647	627	-1.5	Flat; 2 reliefs	5/64	5/64	3/16	P	0.912	143
L-2380NF 40	AMC	V8 V8	4.195	1.505	610	-27.5	.170 dish	5/64	5/64	3/16	P	1.000	173
L-2383F 30 L-2383F 40	Chevrolet Chevrolet	Big Block Big Block	4.155 4.165	1.770 1.770	715 720	13.9 13.9	.110 dome; 1 relief .110 dome; 1 relief	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.990 0.990	154 154
L-2383F 60	Chevrolet	Big Block	4.185	1.770	730	13.9	.110 dome; 1 relief	5/64	5/64	3/16	Р	0.990	154
L-2399NF L-2399NF 30	Chevrolet Chevrolet	Big Block Big Block	4.250 4.280	1.645 1.645	661 678	13.8 13.8	.095 dome .095 dome	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990 0.990	175 175
L-2399NF 40	Chevrolet	Big Block	4.290	1.645	683	13.8	.095 dome	5/64	5/64	3/16	F	0.990	175
L-2399NF 00	Ford	429, 460	4.360	1.756	790	-22.0	.180 dish	5/64	5/64	3/16	<u> </u>	1.040	175
L-2404F 30	Ford	429, 460	4.390	1.756	809	-22.0	.180 dish	5/64	5/64	3/16	Р	1.040	182
L-2404F 40 L-2404F 60	Ford	429, 460 429, 460	4.400 4.420	1.756	815 827	-22.0 -22.0	.180 dish .180 dish	5/64 5/64	5/64 5/64	3/16	P P	1.040	182
L-2441F	Chevrolet	Small Block	4.000	1.560	546	-21.1	Dish	5/64	5/64	3/16	F	0.927	159
L-2441F 30	Ford	429 460	4.030	1.560	741	-21.1	350 dome	5/64	5/64	3/16	F	1.040	159
L-2443NF 60	Ford	429, 460	4.420	1.756	759	14.0	.350 dome	5/64	5/64	3/16	F	1.040	182
L-2446F L-2446F 30	Ford Ford	Small Block Small Block	4.000	1.772 1.772	639 655	-13.2 -13.2	.110 dish .110 dish	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.912 0.912	143 143
L-2446F 40	Ford	Small Block	4.040	1.772	660	-13.2	.110 dish	5/64	5/64	3/16	P	0.912	143
L-2453F	Chevrolet	Big Block	4.251 4.280	1.640 1.640	668 686	-7.9 -7 9	Dish Dish	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990 0.990	175 175
L-2453F 60	Chevrolet	Big Block	4.310	1.640	704	-7.9	Dish	5/64	5/64	3/16	F	0.990	175
L-2465F L-2465F 30	Chevrolet Chevrolet	Big Block Bia Block	4.251 4.281	1.640 1.640	651 655	27.1 25.7	.270 dome .226 dome	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.990 0.990	154 154



Part	Eng	gine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
L-2465F 60	Chevrolet	Big Block	4.311	1.640	666	24.3	.215 dome	5/64	5/64	3/16	P	0.990	154
L-2481F	Buick	V6 V6	3.800	1.825	558 574	-24.5	.245 dish 245 dish	5/64 5/64	5/64 5/64	3/16	P	0.939	156 156
L-2481F 40	Buick	V6 V6	3.840	1.825	578	-24.5	.245 dish	5/64	5/64	3/16	P	0.939	156
L-2482F	Ford	Small Block	4.000	1.605	598	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.912	143
L-2482F 20	Ford	Small Block	4.020	1.605	608	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.912	143
L-2482F 30	Ford	Small Block	4.030	1.605	613	-2.7	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	Р	0.912	143
L-2482F 60	Ford	Small Block	4.040	1.605	628	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	P	0.912	143
L-2488F	Ford	Small Block	4.000	1.619	583	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	Р	0.912	143
L-2488F 20	Ford	Small Block	4.020	1.619	593	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	Р	0.912	143
L-2488F 30	Ford	Small Block	4.030	1.619	598 603	-2.0	Flat; 4 reliefs	1.5MM 1.5MM	1.5MM 1.5MM	4.0MM	P	0.912	143 143
L-2488F 60	Ford	Small Block	4.060	1.619	613	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	P	0.912	143
L-2490NF	Chevrolet	Small Block	4.000	1.565	478	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
L-2490NF 30	Chevrolet	Small Block	4.030	1.565	490	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
L-2490NF 60	Chevrolet	Small Block	4.060	1.565	503	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
L-2491NF L-2491NF 30	Chevrolet	Small Block	4.000	1.430	465 477	-3.4 -3.4	Flat; 2 reliefs	1/16 1/16	1/16 1/16	3/16	F	0.927	133 133
L-2491NF 40	Chevrolet	Small Block	4.040	1.430	481	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
L-2491NF 60	Chevrolet	Small Block	4.060	1.430	490	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
L-2513F	Chevrolet	Big Block	4.500	1.645	690	-2.4	Flat; 1 relief	1/16	1/16	3/16	F	0.990	167
L-2513F 30	Chevrolet	Big Block	4.530	1.645	705	-2.4	Flat; 1 relief	1/16 1/16	1/16	3/16	F	0.990	167 167
L-2608E	Ford	A 6I	3 551	1.043	333	-10.2	150 x 2 70" dia diab	1.5MM	1.5MM	3 0MM	F	0.866	107
L-2608F .50MM	Ford	4.6L	3.580	1.214	341	-10.2	.150 x 2.70" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
L-2608F .75MM	Ford	4.6L	3.590	1.214	345	-10.2	.150 x 2.70" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
L-2609F .50MM	Ford	4.6L	3.570	1.214	365	-2.8	.060 x 2.680" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
L-2622F	Ford	Modular V8	3.551	1.221	320	-20.5	Dish	1.5MM	1.5MM	3.0MM	F	0.866	121
L-2622F .50MM	Ford	Modular V8 Modular V8	3.571	1.221	327	-20.5	Dish	1.5MM 1.5MM	1.5MM 1.5MM	3.0MM	F	0.866	121 121
1-2623F	Ford	Modular V8	3 551	1 214	336	-13.5	Dish	1.5MM	1.5MM	3 0MM	F	0.866	121
L-2623F .50MM	Ford	Modular V8	3.571	1.214	343	-13.5	Dish	1.5MM	1.5MM	3.0MM	F	0.866	121
L-2623F.75MM	Ford	Modular V8	3.581	1.214	347	-13.5	Dish	1.5MM	1.5MM	3.0MM	F	0.866	121
L-2640F 30	Chevrolet	Gen III V8	4.000	1.328	474	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	Р	0.945	151
L-2640F 40 L-2640F 60	Chevrolet	Gen III V8 Gen III V8	4.000	1.328	479 489	-5.0 -5.0	Flat; 2 reliefs	1.5MM	1.5IVIIVI 1.5MM	3.0MM	P	0.945	151
LW-2256F 30	Chevrolet	Small Block	4.030	1.563	554	-6.1	Flat: 4 reliefs	1/16	1/16	3/16	F	0.927	126
LW-2256F 40	Chevrolet	Small Block	4.040	1.563	559	-6.1	Flat; 4 reliefs	1/16	1/16	3/16	F	0.927	126
LW-2256F 60	Chevrolet	Small Block	4.060	1.563	566	-6.1	Flat; 4 reliefs	1/16	1/16	3/16	F	0.927	126
LW-2304F 40	Chevrolet	Small Block	4.030	1.560	542	2.4	.100 dome	1/16	1/16	3/16	F	0.927	133
LW-2355NF 30	Chrysler	Big Block	4.350	2.067	690 694	-5.6	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	1.094	190 190
LW-2355NF 30	Chevrolet	Big Block	4.300	1.645	657	18.3	200 dome: 1 relief	1.5MM	1.5MM	3.0MM	F	0.994	141
LW-2465NF 60	Chevrolet	Big Block	4.310	1.645	661	18.3	.200 dome; 1 relief	1.5MM	1.5MM	3.0MM	F	0.990	141
LW-2488F 40	Ford	Small Block	4.040	1.619	577	-2.0	Flat; 4 reliefs	1/16	1/16	3/16	F	0.912	121
8LW-2503F 30	Chevrolet	Small Block	4.030	1.550	528	14.3	.350 dome	1/16	1/16	3/16	F	0.927	114
8LW-2503F 40	Chevrolet	Small Block	4.040	1.550	555	14.3	.350 dome	1/16	1/16	3/16	F	0.927	114
8LW-2503F 60	Chevrolet	Small Block	4.060	1.550	540	14.3	.350 dome	1/16	1/16	3/16	F	0.927	114
8LW-2505F 30 8LW-2505F 60	Chevrolet	Small Block Small Block	4.030	1.550 1.550	493 508	-5.9 -5.9	Flat; 2 reliefs	1/16 1/16	1/16 1/16	3/16 3/16	F	0.927	114 114
LW-2505NF 30	Chevrolet	Small Block	4.030	1.550	521	-4.86	Flat: 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2505NF 40	Chevrolet	Small Block	4.040	1.550	525	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
8LW-2509F 30 8LW-2509F 60	Chevrolet Chevrolet	Small Block Small Block	4.030 4.060	1.250 1.250	453 465	14.3 14.3	.350 dome .350 dome	1/16 1/16	1/16 1/16	3/16 3/16	F F	0.927 0.927	114 114
LW-2509NF 30 LW-2509NF 40	Chevrolet Chevrolet	Small Block Small Block	4.030	1.250	501 505	6.02	.190 Dome; 2 reliefs .190 Dome; 2 reliefs	1.5MM 1.5MM	1.5MM 1.5MM	3.0MM 3.0MM	F	0.927	133 133
8LW-2511F 60	Chevrolet	Small Block	4.060	1.250	415	-5.9	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	114
LW-2511NF 30	Chevrolet	Small Block	4.030	1.250	470	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2511NF 40	Chevrolet	Small Block	4.040	1.250	474	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2511NF 60	Chevrolet	Small Block	4.060	1.250	485	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
8LW-2515F 30	Chevrolet	Small Block	4.155	1.430	536	5.3	.150 dome	1/16	1/16	3/16	F	0.927	114



Part	En	gine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
8LW-2517F 30	Chevrolet	Small Block	4.155	1.430	513	-5.7	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	114
LW-2602NF 30	Ford	429, 460	4.390	1.756	678	-3.9	Flat; 1 relief	5/64	5/64	3/16	F	1.040	182
LW-2602NF 60	Ford	429, 460	4.420	1.756	695	-3.9	Flat; 1 relief	5/64	5/64	3/16	F	1.040	182
LW-2603F 30	Chevrolet Chevrolet	Small Block	4.030	1.550	488 503	-10.9 -10.9	Dish	1/16 1/16	1/16 1/16	3/16 3/16	F	0.927	114 114
LW-2606F 60	Chevrolet	Small Block	4,185	1.425	550	-16.2	Dish	1/16	1/16	3/16	F	0.927	126
LW-2616NF 30	Ford	Small Block	4.030	1.600	528	-5.5	Flat: 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.912	131
LW-2617NF 30	Chevrolet	Small Block	4.030	1.125	442	-18.53	.115 Dish; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2617NF 40	Chevrolet	Small Block	4.040	1.125	446	-18.53	.115 Dish; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2624F	Chevrolet	Gen III V8	3.897	1.125	372	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2624F .25MM	Chevrolet	Gen III V8	3.907	1.125	372	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2625F	Chevrolet	Gen III V8	4.000	1.125	402	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2625F 30	Chevrolet	Gen III V8	4.000	1.125	415	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2625F 60	Chevrolet	Gen III V8	4.000	1.125	428	-5.0	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2626F 30	Chevrolet	Small Block	4.030	1.260	472	2.4	.100 dome	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2626F 40	Chevrolet	Small Block	4.040	1.260	477	2.4	.100 dome	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2626F 60	Chevrolet	Small Block	4.060	1.260	486	2.4	.100 dome	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2627NF 30	Chevrolet	Small Block	4.030	1.125	461	1.0	.088 Dome; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2627NF 40	Chevrolet	Small Block	4.040	1.125	465	1.0	.088 Dome; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2627NF 60	Chevrolet	Small Block	4.060	1.125	476	1.0	.088 Dome; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2629F 40	Chevrolet	Small Block	4.165	1.125	475	-16.2	Dish	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2629F 60	Chevrolet	Small Block	4.185	1.125	486	-16.2	Dish	1.5MM	1.5MM	3.0MM	F	0.927	114
LW-2632F 30	Chevrolet	Small Block	4.155	1.425	504	-25.0	Dish	1/16	1/16	3/16	F	0.927	114
LW-2632F 60	Chevrolet	Small Block	4.185	1.425	519	-25.0	Dish	1/16	1/16	3/16	F	0.927	114
LW-2633F	Chevrolet	Big Block	4.500	1.270	578	-2.4	Flat; 2 reliefs	.043	.043	3.0MM	F	0.990	150
LW-2633F 30	Chevrolet	Big Block	4.560	1.270	594	-2.4	Flat; 2 reliefs	.043	.043	3.0MM	F	0.990	150
LW-2633F 60	Chevrolet	Big Block	4.560	1.270	610	-2.4	Flat; 2 reliefs	.043	.043	3.0MM	F	0.990	150
LW-2634F	Chevrolet	Big Block	4.500	1.270	650	40.0	.450 dome	.043	.043	3.0MM	F	0.990	150
LW-2634F 30	Chevrolet	Big Block	4.560	1.270	665	40.0	.450 dome	.043	.043	3.0MM	F	0.990	150
LW-2637NF 30	Chevrolet	Small Block	4.030	1.125	445	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2637NF 40	Chevrolet	Small Block	4.040	1.125	449	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2637NF 60	Chevrolet	Small Block	4.060	1.125	460	-4.86	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	133
LW-2639NF 30	Ford	Small Block	4.030	1.170	425	-5.5	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	131
LW-2642F 30	Ford	Small Block	4.030	1.090	411	-5.5	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	131
LW-2642F 40	Ford	Small Block	4.040	1.090	415	-5.5	Flat; 2 reliefs	1.5MM	1.5MM	3.0MM	F	0.927	131
LW-2643F 30	Chevrolet	Big Block	4.280	1.270	597	23	.202 dome; 1 relief	1.5MM	1.5MM	3.0MM	F	0.990	141
LW-2643F 60	Chevrolet	Big Block	4.310	1.270	601	23	.202 dome; 1 relief	1.5MM	1.5MM	3.0MM		0.990	141



Part	Fr	naine	Bore	Comp	Weight	Dome	Dome	Top	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
WH100CP	Chevrolet	Small Block	4.000	1.560	556	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH100CP 30	Chevrolet	Small Block	4.030	1.560	571	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH100CP 40	Chevrolet	Small Block	4.040	1.560	586	-5.0	Flat: 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH101CP 30	Chevrolet	Small Block	4.030	1.560	606	3.5	.100 dome: 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH101CP 40	Chevrolet	Small Block	4.040	1.560	611	3.5	.100 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH101CP 60	Chevrolet	Small Block	4.060	1.560	621	3.5	.100 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH102CP 30	Chevrolet	Small Block	4.030	1.560	629	11.8	.240 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH102CP 40 WH102CP 60	Chevrolet	Small Block	4.040	1.560	644	11.8	.240 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH106CP 30	Chevrolet	Small Block	4.030	1.425	546	9.5	.200 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH106CP 40	Chevrolet	Small Block	4.040	1.425	551	9.5	.200 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH106CP 60	Chevrolet	Small Block	4.060	1.425	561	9.5	.200 dome; 2 reliefs	1/16	1/16	3/16	F	0.927	159
WH107CP 30 WH107CP 40	Chevrolet	Small Block	4.155 4.165	1.425	576 581	3.5 3.5	.100 dome; 2 reliefs	1/16 1/16	1/16 1/16	3/16 3/16	F	0.927	159 159
WH110CP 30	Chevrolet	Big Block	4.100	1 640	691	33.0	.100 dome; 2 reliefs	1/16	1/16	3/16	F	0.027	175
WH110CP 60	Chevrolet	Big Block	4.310	1.640	703	30.5	.300 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
WH116CP	Chrysler	Small Block	4.000	1.660	567	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
WH116CP 20	Chrysler	Small Block	4.020	1.660	577	-5.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.984	154
WH116CP 40	Chrysler	Small Block	4.030	1.660	587	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
WH116CP 60	Chrysler	Small Block	4.060	1.660	597	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
WH118CP 30 WH118CP 60	Chevrolet Chevrolet	Big Block Big Block	4.280 4.310	1.640 1.640	725 740	22.0 20.0	.230 dome; 2 reliefs .210 dome; 2 reliefs	1/16 1/16	1/16 1/16	3/16 3/16	F F	0.990 0.990	175 175
WH120CP 20	Ford	Small Block	4.020	1.615	555	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.912	121
WH120CP 30	Ford	Small Block	4.030	1.615	560	-5.0	Flat; 2 reliefs	1/16	1/16	3/16	F	0.912	121
WH132CP 30 WH132CP 40	Ford Ford	Small Block Small Block	4.030 4.040	1.615 1.615	514 519	-15.0 -15.0	.060 dish; 2 reliefs .060 dish; 2 reliefs	1/16 1/16	1/16 1/16	3/16 3/16	F F	0.912 0.912	121 121
WH139CL 30	Ford	Small Block	4.030	1.090	405	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.912	110
WH139CL 40	Ford	Small Block	4.040	1.090	409	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.912	110
WH140CL 30	Chevrolet	Small Block	4.000	1.260	454 469	-5.0 -5.0	Flat; 2 reliefs	1/16 1/16	1/16 1/16	1/8 1/8	F	0.927	126
WH140CL 40	Chevrolet	Small Block	4.040	1.260	474	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH140CL 60	Chevrolet	Small Block	4.060	1.260	484	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH141CL 30	Chevrolet	Small Block	4.030	1.260	491	3.5	.120 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH141CL 60	Chevrolet	Small Block	4.040	1.260	490 506	3.5	.120 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	120
WH142CL 30	Chevrolet	Small Block	4.030	1.260	513	11.8	.285 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH142CL 40	Chevrolet	Small Block	4.040	1.260	518	11.8	.285 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH142CL 60	Chevrolet	Small Block	4.060	1.260	528	11.8	.285 dome; 2 reliefs	1/16	1/16	1/8	F	0.927	126
WH1/4CP 30	Ford	Small Block	4.496	1.045	//3	-5.0	Flat: 2 reliefs	2.01/110	1/16	4.01/11/1		0.990	11/5
WH146CL 30	Ford	Small Block	4.000	1.090	423	-5.0	Flat; 2 reliefs	1/16	1/16	1/8	F	0.927	114
WH273CP	Ford	Small Block	4.000	1.605	579	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH273CP 20	Ford	Small Block	4.020	1.605	589	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH273CP 30 WH273CP 40	Ford	Small Block	4.030	1.605	594 599	-8.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.912	152
WH273CP 60	Ford	Small Block	4.060	1.605	609	-8.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH336CP	Ford	Small Block	4.000	1.772	619	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH336CP 20	Ford	Small Block	4.020	1.772	629 634	-12.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.912	152
WH336CP 40	Ford	Small Block	4.030	1.772	639	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH336CP 60	Ford	Small Block	4.060	1.772	649	-12.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.912	152
WH345DCP	Chevrolet	Small Block	4.000	1.548	529	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH345DCP 20 WH345DCP 30	Chevrolet	Small Block	4.020	1.548	539 544	-0.9 -6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH345DCP 40	Chevrolet	Small Block	4.040	1.548	549	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH345DCP 60	Chevrolet	Small Block	4.060	1.548	559	-6.9	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH392NCP 20	Buick	V8	4.312	1.985	771	-23.0	.130 dish; 4 reliefs	5/64	5/64	3/16	P	0.999	223
WH392NCP 40	Buick	V8	4.352	1.985	791	-23.0	.130 dish; 4 reliefs	5/64	5/64	3/16	P	0.999	223
WH392NCP 60	Buick	V8	4.372	1.985	801	-23.0	.130 dish; 4 reliefs	5/64	5/64	3/16	Р	0.999	223
WH400CP	Chevrolet	Small Block	4.125	1.560	610	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144



Part	En	igine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
WH400CP 20	Chevrolet	Small Block	4.145	1.560	620	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH400CP 30	Chevrolet	Small Block	4.155	1.560	625	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WH400CP 40	Chevrolet	Small Block	4.165	1.560	630	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH400CP 60	Crievrolet	Small Block	4.185	1.007	640	-0.0	Flat, 4 reliefs	5/64	5/04	3/10	P	0.927	144
WH405CP	Chrysler	Small Block	4.000	1.637	581	-10.0	Flat; 4 reliefs	5/64 5/64	5/64	3/16	Р	0.984	154
WH405CP 20	Chrysler	Small Block	4.020	1.637	596	-10.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.964	154
WH405CP 40	Chrvsler	Small Block	4.040	1.637	601	-10.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.984	154
WH405CP 60	Chrysler	Small Block	4.060	1.637	611	-10.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.984	154
WH423DCP	Chevrolet	Small Block	4.000	1.548	512	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH423DCP 20	Chevrolet	Small Block	4.020	1.548	521	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH423DCP 30	Chevrolet	Small Block	4.030	1.548	526	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH423DCP 40	Chevrolet	Small Block	4.040	1.548	531	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	149
WH423DCP 60	Cnevrolet	Small Block	4.060	1.548	541	-12.3	.098 dish; 4 reliefs	5/64	5/64	3/16		0.927	149
WH426CP	Chevrolet	Big Block	4.250	1.640	659	10.5	.100 dome; 1 relief	5/64 5/64	5/64	3/16	F	0.990	175
WH426CP 30	Chevrolet	Big Block	4.270	1.640	674	10.5	100 dome: 1 relief	5/64	5/64	3/16	F	0.990	175
WH426CP 40	Chevrolet	Big Block	4.290	1.640	679	10.5	.100 dome; 1 relief	5/64	5/64	3/16	F	0.990	175
WH426CP 60	Chevrolet	Big Block	4.310	1.640	689	10.5	.100 dome; 1 relief	5/64	5/64	3/16	F	0.990	175
WH426CP 100	Chevrolet	Big Block	4.350	1.640	709	10.5	.100 dome; 1 relief	5/64	5/64	3/16	F	0.990	175
WH471CP 30	Buick	V6	3.995	1.808	577	-30.0	.276 dish	5/64	5/64	3/16	Р	0.939	165
WH471CP 40	Buick	V6	4.005	1.808	582	-30.0	.276 dish	5/64	5/64	3/16	P	0.939	165
WH471CP 60	Buick	V6	4.025	1.808	592	-30.0	.276 dish	5/64	5/64	3/16	Р	0.939	165
WH521ACP	Buick	V6	3.800	1.800	506	-24.0	.255 dish	5/64	5/64	3/16	Р	0.939	156
WH521ACP 20	Buick	V6	3.820	1.800	516	-24.0	.255 dish	5/64	5/64	3/16	Р	0.939	156
WH521ACP 30	Buick	V6 V6	3.840	1.800	526	-24.0	255 dish	5/64	5/64	3/16	P	0.939	156
WH521ACP 60	Buick	V6	3.860	1.800	536	-24.0	.255 dish	5/64	5/64	3/16	P	0.939	156
WH522CP	Buick	V6	3.800	1.855	547	-14.0	.190 dish: 4 reliefs	5/64	5/64	3/16	Р	0.939	156
WH522CP 30	Buick	V6	3.830	1.855	562	-14.0	.190 dish; 4 reliefs	5/64	5/64	3/16	P	0.939	156
WH522CP 40	Buick	V6	3.840	1.855	567	-14.0	.190 dish; 4 reliefs	5/64	5/64	3/16	Р	0.939	156
WH534CP	Chevrolet	Small Block	3.736	1.560	472	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH534CP 20	Chevrolet	Small Block	3.756	1.560	482	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH534CP 30	Chevrolet	Small Block	3.766	1.560	487	-5.0	Flat; 4 reliefs	5/64 5/64	5/64	3/16	Р	0.927	144
WH534CP 60	Chevrolet	Small Block	3 796	1.560	492 502	-5.0	Flat: 4 reliefs	5/64	5/64	3/16	P	0.927	144
WH535CP	Ford	429 460	4.360	1 752	753	-4.2	Flat: 2 reliefs	5/64	5/64	3/16	P	1 040	229
WH535CP 20	Ford	429, 460	4.380	1.752	763	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	P	1.040	229
WH535CP 30	Ford	429, 460	4.390	1.752	768	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
WH535CP 40	Ford	429, 460	4.400	1.752	773	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	Р	1.040	229
WH535CP 60	Ford	429, 460	4.420	1.752	783	-4.2	Flat; 2 reliefs	5/64	5/64	3/16	P	1.040	229
WH552CP 30	Chevrolet	Big Block	4.280	1.525	633	11.2	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH552CP 60 WH552CP 100	Chevrolet	BIG BIOCK	4.310	1.525	675	11.2	.100 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.990	1/5 175
WH555CD	Ford	Cloveland	4.000	1.645	560	2.0	Elat: 2 roliofo	5/64	5/6/	2/16		0.010	150
WH555CP 20	Ford	Cleveland	4.000	1.645	579	-2.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.912	152
WH555CP 30	Ford	Cleveland	4.030	1.645	584	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
WH555CP 40	Ford	Cleveland	4.040	1.645	589	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
WH555CP 60	Ford	Cleveland	4.060	1.645	599	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.912	152
WH581CP	Chevrolet	Big Block	4.250	1.640	725	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH581CP 20	Chevrolet	BIG BLOCK	4.270	1.640	735	33.0	.340 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	1/5
WH581CP 40	Chevrolet	Big Block	4.200	1.640	740	33.0	.340 dome: 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH581CP 60	Chevrolet	Big Block	4.310	1.640	755	30.5	.300 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH581CP 100	Chevrolet	Big Block	4.350	1.640	775	30.5	.300 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH591CP	Ford	4.6L	3.551	1.214	349	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
WH591CP .25MM	Ford	4.6L	3.561	1.214	353	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
WH591CP .50MM	Ford	4.6L	3.571	1.214	357	-10.5	.152 x 2.70" dia. Dish	1.5MM	1.5MM	3.0MM	Р	0.866	107
WH591CP 1 00MM	Ford	4.0L 4.6I	3.501 3.501	1.214	365	-10.5	152 x 2.70" ala. UISh	1.5IVIIVI 1.5MM	1.5MM	3.0MM	Р Р	0.000 0.866	107
WH601P	Chevrolet	Small Block	4 125	1.560	507	-12.5	115 dish: 4 reliefe	5/6/	5/6/	3/16	P	0.000	144
WH601P 20	Chevrolet	Small Block	4.125	1.560	607	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WH601P 30	Chevrolet	Small Block	4.155	1.560	612	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WH601P 40	Chevrolet	Small Block	4.165	1.560	617	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH601P 60	Chevrolet	Small Block	4.185	1.560	627	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	Р	0.927	144



Part	En	gine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
WH603CP 60	Mtgr.	Family Big Block	/ 310	1 525	(grams)	21.0	245 dome: 2 reliefs	Fing	Fing	3/16		0.000	175
WH603CP 100	Chevrolet	Big Block	4.350	1.525	701	21.0	.245 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH614CP	Ford	4.6L	3.551	1.214	349	-3.0	.060 x 2.68" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
WH614CP .50MM	Ford	4.6L 4.6L	3.571	1.214	357 361	-3.0	.060 x 2.68 dia. dish	1.5MM	1.5IVIIVI 1.5MM	3.0MM	F	0.866	107
WH614CP 1.00MM	Ford	4.6L	3.591	1.214	365	-3.0	.060 x 2.68" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
WH615CP	Chevrolet	Small Block	4.125	1.425	569	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	159
WH615CP 20 WH615CP 30	Chevrolet	Small Block	4.145 4 155	1.425 1.425	574 579	-12.5 -12.5	.115 dish; 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.927	159 159
WH615CP 40	Chevrolet	Small Block	4.165	1.425	584	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	159
WH615CP 60	Chevrolet	Small Block	4.185	1.425	594	-12.5	.115 dish; 4 reliefs	5/64	5/64	3/16	F	0.927	159
WH616CP	Chevrolet	Small Block	4.125	1.425	578	-6.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
WH616CP 30	Chevrolet	Small Block	4.145	1.425	593	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	159
WH616CP 40	Chevrolet	Small Block	4.165	1.425	598	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	F	0.927	159
WH616CP 60	Chevrolet	Small Block	4.185	1.425	608	-6.0	Flat; 4 reliefs	5/64	5/64	3/16	-	0.927	159
WH617CP WH617CP 30	Chevrolet	Small Block Small Block	4.000 4.030	1.560	601 616	11.8 11.8	.275 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.927	159 159
WH617CP 40	Chevrolet	Small Block	4.040	1.560	621	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH617CP 60	Chevrolet	Small Block	4.060	1.560	631	11.8	.275 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH618CP	Chevrolet	Small Block	4.000	1.560	581 501	3.5	.125 dome; 2 reliefs	5/64	5/64 5/64	3/16	F	0.927	159
WH018CP 20 WH618CP 30	Chevrolet	Small Block	4.020	1.560	596	3.5	.125 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH618CP 40	Chevrolet	Small Block	4.040	1.560	601	3.5	.125 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH618CP 60	Chevrolet	Small Block	4.060	1.560	611	3.5	.125 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH623CP 30 WH623CP 40	Chevrolet	Small Block	4.155 4.165	1.425 1.425	564 569	3.5 3.5	.100 dome; 2 reliefs 100 dome: 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.927	159 159
WH623CP 60	Chevrolet	Small Block	4.185	1.425	579	3.5	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH624CP 30	Chevrolet	Small Block	4.030	1.425	521	3.5	.100 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH624CP 40	Chevrolet	Small Block	4.040	1.425	526	3.5	.100 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
WH625CP	Chevrolet	Big Block	4.000	1.423	641	-2.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	175
WH625CP 20	Chevrolet	Big Block	4.270	1.640	651	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH625CP 30	Chevrolet	Big Block	4.280	1.640	656	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH625CP 40 WH625CP 60	Chevrolet	Big Block Big Block	4.290 4.310	1.640 1.640	661 671	-2.0 -2.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990	175 175
WH625CP 100	Chevrolet	Big Block	4.350	1.640	691	-2.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH631CP	Chevrolet	Small Block	4.000	1.560	552	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH631CP 20	Chevrolet	Small Block	4.020	1.560	562	-5.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
WH631CP 30 WH631CP 40	Chevrolet	Small Block	4.030	1.560	572	-5.0	Flat; 2 reliefs	5/64 5/64	5/64	3/16	F	0.927	159
WH631CP 60	Chevrolet	Small Block	4.060	1.560	582	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH634CP 30	Chevrolet	Small Block	4.155	1.425	586	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH634CP 40 WH634CP 60	Chevrolet	Small Block	4.165 4.185	1.425	601	9.5 9.5	.200 dome; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	159
WH635CP 30	Chevrolet	Small Block	4.030	1.425	536	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH635CP 40	Chevrolet	Small Block	4.040	1.425	541	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH635CP 60	Chevrolet	Small Block	4.060	1.425	551	9.5	.200 dome; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH645NCP WH645NCP 20	Chevrolet	V6 V6	4.000	1.560	536 546	-5.0 -5.0	Flat; 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	P	0.927	144 144
WH645NCP 30	Chevrolet	V6	4.030	1.560	551	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WH645NCP 40	Chevrolet	V6	4.040	1.560	556	-5.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WH660CP	Chevrolet	Small Block	4.000	1.500	587	-3.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	144
WH660CP 20	Chevrolet	Small Block	4.000	1.675	597	-4.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH660CP 30	Chevrolet	Small Block	4.030	1.675	602	-4.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	159
WH660CP 40 WH660CP 60	Chevrolet	Small Block Small Block	4.040 4.060	1.675	607 617	-4.0 -4.0	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	F	0.927	159 159
WH693CP	Chevrolet	Big Block	4.250	1.640	708	22.0	.230 dome: 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH693CP 20	Chevrolet	Big Block	4.270	1.640	718	22.0	.230 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH693CP 30	Chevrolet	Big Block	4.280	1.640	723	22.0	.230 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH693CP 60	Chevrolet	Big Block	4.290 4.310	1.640	738	20.0	.210 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH693CP 100	Chevrolet	Big Block	4.350	1.640	758	20.0	.210 dome; 2 reliefs	5/64	5/64	3/16	F	0.990	175
WH859CP	Chevrolet	Small Block	4.000	1.425	496	-12.0	.110 dish: 2 reliefs	5/64	5/64	3/16	F	0.927	133



Part	En	igine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
WH859CP 20	Chevrolet	Small Block	4.020	1.425	506	-12.0	.110 dish; 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH859CP 30	Chevrolet	Small Block	4.030	1.425	511	-12.0	.110 dish; 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH859CP 60	Chevrolet	Small Block	4.040	1.425	526	-12.0	.110 dish; 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.927	133
WH860CP	Chevrolet	Small Block	4 000	1 425	515	-5.0	Flat: 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH860CP 20	Chevrolet	Small Block	4.020	1.425	525	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH860CP 30	Chevrolet	Small Block	4.030	1.425	530	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH860CP 40	Chevrolet	Small Block	4.040	1.425	535	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
WH860CP 60	Chevrolet	Small Block	4.060	1.425	545	-5.0	Flat; 2 reliefs	5/64	5/64	3/16	F	0.927	133
	Chevrolet	Gen III V8	3.897	1.328	447	0.0	Flat	1.5MM	1.5MM	3.0MM	Р	0.945	151
WH890CP 60	Chevrolet	Small Block	4.060	1.320	534	-25.0	Dish	5/64	5/64	3/16	F	0.945	133
WI -2165E	Chevrolet	Small Block	4.000	1.420	600	-5.4	Elat: 4 reliefe	5/6/	5/6/	3/16	P	0.027	144
WL-2165F 20	Chevrolet	Small Block	4.020	1.671	609	-5.4	Flat: 4 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2165F 30	Chevrolet	Small Block	4.030	1.671	614	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2165F 40	Chevrolet	Small Block	4.040	1.671	619	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WL-2165F 60	Chevrolet	Small Block	4.060	1.671	628	-5.4	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WL-2166NF	Chevrolet	Small Block	4.000	1.675	576	5.3	.125 dome; 2 reliefs	5/64	5/64	3/16	Р	0.927	144
WL-2166NF 20	Chevrolet	Small Block	4.020	1.675	585	5.3	.125 dome; 2 reliefs	5/64 5/64	5/64	3/16	Р	0.927	144
WL-2166NF 40	Chevrolet	Small Block	4.030	1.675	590	5.3	125 dome: 2 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2166NF 60	Chevrolet	Small Block	4.060	1.675	603	5.3	.125 dome; 2 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2210AF 30	Chevrolet	Small Block	4.030	1.805	631	15.4	.430 dome	1/16	1/16	1/8	F	0.927	159
WL-2210AF 60	Chevrolet	Small Block	4.060	1.805	647	15.2	.410 dome	1/16	1/16	1/8	F	0.927	159
WL-2240NF	Chevrolet	Big Block	4.094	1.760	703	21.0	.182 dome	5/64	5/64	3/16	Р	0.990	154
WL-2240NF 30	Chevrolet	BIG BIOCK	4.124 4.134	1.760	718	21.0	.182 dome	5/64 5/64	5/64 5/64	3/16	P	0.990	154 154
WL-2240NF 60	Chevrolet	Big Block	4.154	1.760	733	21.0	.182 dome	5/64	5/64	3/16	P	0.990	154
WL-2242NF 30	Chevrolet	Big Block	4.124	1.765	668	38.3	.335 dome	5/64	5/64	3/16	Р	0.990	154
WL-2242NF 40	Chevrolet	Big Block	4.134	1.765	672	37.9	.330 dome	5/64	5/64	3/16	Р	0.990	154
WL-2242NF 60	Chevrolet	Big Block	4.154	1.765	681	37.1	.319 dome	5/64	5/64	3/16	Р	0.990	154
WL-2252YF 30	Chevrolet	Small Block	4.030	1.560	601	11.0	.220 dome	1/16	1/16	1/8	F	0.927	159
WL-2252YF 60	Chevrolet	Small Block	4.060	1.560	617	10.2	.200 dome	1/16	1/16	1/8	F	0.927	159
WL-2256F	Chevrolet	Small Block	4.000	1.563	596	-0.1	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2256F 30	Chevrolet	Small Block	4.020	1.563	607	-6.1	Flat: 4 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2256F 40	Chevrolet	Small Block	4.040	1.563	611	-6.1	Flat; 4 reliefs	5/64	5/64	3/16	P	0.927	144
WL-2256F 60	Chevrolet	Small Block	4.060	1.563	618	-6.1	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.927	144
WL-2262F	Pontiac	V8	4.120	1.714	589	-6.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.980	194
WL-2262F 20	Pontiac	V8	4.140	1.714	599	-6.7	Flat; 4 reliefs	5/64 5/64	5/64	3/16	Р	0.980	194
WL-2262F 30	Pontiac	V8 V8	4.150	1.714	609	-6.7	Flat: 4 reliefs	5/64	5/64	3/16	P	0.980	194
WL-2262F 60	Pontiac	V8	4.180	1.714	620	-6.7	Flat; 4 reliefs	5/64	5/64	3/16	P	0.980	194
WL-2266F	Chrysler	Big Block	4.320	1.991	835	0.0	Flat	5/64	5/64	3/16	Р	1.220	218
WL-2266F 30	Chrysler	Big Block	4.350	1.991	855	0.0	Flat	5/64	5/64	3/16	Р	1.220	218
WL-2266F 40	Chrysler	Big Block	4.360	1.991	862	0.0	Flat	5/64 5/64	5/64	3/16	Р	1.220	218
WL-2268NE 60	Chevrolet	Big Block	4.300	1.391	710	34.2	255 dome	5/64	5/64	3/16	P	0.000	154
WL-220011 00	Ford	300 /27 /28	4.050	1.703	633	-10.0	Elat: 4 reliefe	5/64	3/32	3/16	F	0.990	151
WL-2291F 20	Ford	390, 427, 428	4.070	1.776	644	-10.0	Flat: 4 reliefs	5/64	3/32	3/16	F	0.975	151
WL-2291F 30	Ford	390, 427, 428	4.080	1.776	650	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
WL-2291F 40	Ford	390, 427, 428	4.090	1.776	656	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
WL-2291F 60	Ford	390, 427, 428	4.110	1.776	667	-10.0	Flat; 4 reliefs	5/64	3/32	3/16	F	0.975	151
WL-2295F 30	Chrysler	Big Block	4.350	2.029	826	12.1	.140 dome	1/16	1/16	3/16	F	1.094	191
WL-2295F 60	Chourslat	Big Block	4.380	2.029	836 777	16.0	.125 dome	1/10	1/16	3/16	P	0.000	191
WL-2300NF 30	Chevrolet	Big Block	4.250 4.280	1.767	794	16.8	140 dome	5/64 5/64	5/64 5/64	3/16	P	0.990	154 154
WL-2300NF 40	Chevrolet	Big Block	4.290	1.767	800	16.8	.140 dome	5/64	5/64	3/16	P	0.990	154
WL-2300NF 60	Chevrolet	Big Block	4.310	1.767	810	16.8	.140 dome	5/64	5/64	3/16	Р	0.990	154
WL-2303NF	Ford	390, 427, 428	4.130	1.674	672	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	F	0.975	151
WL-2303NF 30	Ford	390, 427, 428	4.160	1.674	689	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	F	0.975	151
WL-2303NF 40	Ford	390, 427, 428	4.170	1.674	695	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	F	0.975	151
WL-2303NF 60	Ford	390, 427, 428	4.190	1.674	706	-10.3	.085 dish; 4 reliefs	5/64	5/64	3/16	-	0.975	151
WL-2304F	Chevrolet	Small Block	4.000	1.560	571	2.4	.100 dome	5/64	5/64	3/16	Р	0.927	159



Dert	F		Dere		Wainht	Dama	Domo	Tan	Ond	0:1	Dim	Dia	Dim
Number	Mfar.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
WL-2304F 30 WL-2304F 60	Chevrolet Chevrolet	Small Block Small Block	4.030	1.560 1.560	583 597	2.4 2.4	.100 dome .100 dome	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.927	159 159
WL-2307AF	Chevrolet	Big Block	4.250	1.645	719	50.0	.580 dome	1/16	1/16	3/16	F	0.990	175
WL-2307AF 30	Chevrolet	Big Block	4.280	1.645	735	50.0	.580 dome	1/16	1/16	3/16	F	0.990	175
WL-2307AF 60	Chevrolet	Big Block	4.310	1.645	751	50.0	.580 dome	1/16	1/16	3/16	F	0.990	175
WL-2308AF 30	Chevrolet	Big Block	4.280	1.760	748	50.0	.585 dome; 2 reliefs	1/16	1/16	3/16	F	0.990	175
WL-2308AF 60	Chevrolet	Big Block	4.310	1.760	764	50.0	.585 dome; 2 reliefs	1/10	1/10	3/16	F	1.000	010
WL-2315NF 30 WL-2315NF 40	Chrysler	Big Block	4.280 4.290	1.920	781	0.0	Flat	5/64 5/64	5/64 5/64	3/16	P	1.220	218
WL-2316F 20	Chrysler	Small Block	4.060	1.840	724	-7.5	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
WL-2316F 30	Chrysler	Small Block	4.070	1.840	729 734	-7.5	Flat: 2 reliefs	5/64 5/64	5/64 5/64	3/16	F	0.984	154 154
WL-2316F 60	Chrysler	Small Block	4.100	1.840	745	-7.5	Flat; 2 reliefs	5/64	5/64	3/16	F	0.984	154
WL-2320F	Oldsmobile	V8	4.057	1.612	641	0.0	Flat	5/64	5/64	3/16	Р	0.980	194
WL-2320F 30	Oldsmobile	V8	4.087	1.612	655	0.0	Flat	5/64	5/64	3/16	P	0.980	194
WL-2321F 30	Oldsmobile	V8	4.087	1.612	621	-5.8	.076 x 2.44" dia. dish	5/64	5/64	3/16	P	0.980	194
WL-2323F WL-2323F 30	Oldsmobile	V8 V8	4.125	1.735	674 690	-18.0 -18.0	.142 dish	5/64 5/64	5/64 5/64	3/16 3/16	P	0.980	187 187
WL-2323F 40	Oldsmobile	V8	4.165	1.735	696	-18.0	.142 dish	5/64	5/64	3/16	P	0.980	187
WL-2323F 60	Oldsmobile	V8	4.185	1.735	707	-18.0	.142 dish	5/64	5/64	3/16	Р	0.980	187
WL-2328NF 30	Chevrolet	Big Block	4.155	1.765	680	36.6	.319 dome	5/64	5/64	3/16	Р	0.990	154
WL-2320NF 00	Chevrolet	Big Block	4.160	1.700	656	30.0	.319 dome	5/64	5/04	3/10		0.990	154
WL-2349F 30	Chevrolet	Big Block	4.230	1.645	661	29.4	.203 dome	5/64	5/64	3/16	P	0.990	154
WL-2349F 60	Chevrolet	Big Block	4.310	1.645	674	27.9	.210 dome	5/64	5/64	3/16	Р	0.990	154
WL-2352F 30 WL-2352F 40	Chevrolet Chevrolet	Small Block Small Block	4.155 4.165	1.555 1.555	620 624	-14.0 -14.0	.083 dish, 4 reliefs .083 dish, 4 reliefs	5/64 5/64	5/64 5/64	3/16 3/16	P P	0.927 0.927	159 159
WL-2353F 30	Buick	V8	4.342	1.975	762	-27.8	.156 x 3.610" dia. dish	5/64	5/64	3/16	Р	0.999	223
WL-2353F 40	Buick	V8 Big Block	4.352	1.975	768	-27.8	.156 x 3.610" dia. dish Elat: 4 reliefs	5/64	5/64	3/16	P	0.999	223 218
WL-2355F 30	Chrysler	Big Block	4.350	2.061	879	-7.0	Flat; 4 reliefs	5/64	5/64	3/16	P	1.220	218
WL-2355F 40	Chrysler	Big Block	4.360	2.061	886	-7.0	Flat; 4 reliefs	5/64	5/64	3/16	Р	1.220	218
WL-2355F 60	Chrysler	BIG BIOCK	4.380	2.061	899	-7.0	Flat; 4 reliefs	5/64	5/64	3/16	<u>Р</u>	1.220	218
WL-2366F 30	Ford	429, 460	4.360	1.890	822	-1.5 -1.5	Flat: 1 relief	5/64 5/64	5/64 5/64	3/16	F	1.040	182
WL-2366F 40	Ford	429, 460	4.400	1.890	828	-1.5	Flat; 1 relief	5/64	5/64	3/16	F	1.040	182
WL-2377F	Chevrolet	Big Block	4.250	1.640	717	-4.9	Flat; 2 reliefs; Chamfer	5/64	5/64	3/16	Р	0.990	154
WL-2377F 20 WL-2377F 30	Chevrolet	Big Block	4.270 4.280	1.640 1.640	728	-4.9 -4 9	Flat; 2 reliefs; Chamfer	5/64 5/64	5/64 5/64	3/16 3/16	P	0.990	154 154
WL-2377F 40	Chevrolet	Big Block	4.290	1.640	738	-4.9	Flat; 2 reliefs; Chamfer	5/64	5/64	3/16	P	0.990	154
WL-2377F 60	Chevrolet	Big Block	4.310	1.640	749	-4.9	Flat; 2 reliefs; Chamfer	5/64	5/64	3/16	Р	0.990	154
WL-2379F	Ford	Cleveland	4.000	1.647	608	-1.5	Flat; 2 reliefs	5/64	5/64	3/16	Р	0.912	143
WL-2379F 30 WL-2379F 40	Ford	Cleveland	4.030	1.647	623	-1.5 -1.5	Flat; 2 reliefs	5/64 5/64	5/64 5/64	3/16	P	0.912	143
WL-2383F 30	Chevrolet	Big Block	4.155	1.770	715	13.9	.110 dome; 1 relief	5/64	5/64	3/16	Р	0.990	154
WL-2383F 40	Chevrolet	Big Block	4.165	1.770	720	13.9	.110 dome; 1 relief	5/64	5/64	3/16	Р	0.990	154
WL-2383F 60	Chevrolet	Big Block	4.185	1.770	730	13.9	.110 dome; 1 relief	5/64	5/64	3/16	P	0.990	154
WL-2399NF WI -2399NF 30	Chevrolet	Big Block	4.250	1.645	661 678	13.8 13.8	.095 dome	5/64 5/64	5/64 5/64	3/16 3/16	F	0.990	175 175
WL-2399NF 40	Chevrolet	Big Block	4.290	1.645	683	13.8	.095 dome	5/64	5/64	3/16	F	0.990	175
WL-2399NF 60	Chevrolet	Big Block	4.310	1.645	695	13.8	.095 dome	5/64	5/64	3/16	F	0.990	175
WL-2404F	Ford	429, 460	4.360	1.756	790	-22.0	.180 dish	5/64	5/64	3/16	Р	1.040	182
WL-2404F 30 WL-2404F 40	Ford Ford	429, 460 429 460	4.390 4.400	1.756 1.756	809 815	-22.0 -22.0	. 180 aish . 180 dish	5/64 5/64	5/64 5/64	3/16 3/16	Р Р	1.040	182 182
WL-2404F 60	Ford	429, 460	4.420	1.756	827	-22.0	.180 dish	5/64	5/64	3/16	P	1.040	182
WL-2441F	Chevrolet	Small Block	4.000	1.560	546	-21.1	Dish	5/64	5/64	3/16	F	0.927	159
WL-2441F 30	Chevrolet	Small Block	4.030	1.560	561	-21.1	Dish	5/64	5/64	3/16	F	0.927	159
WL-2443NF 30	Ford	429, 460	4.390	1.756	741 750	14.0	.350 dome	5/64 5/64	5/64 5/64	3/16 3/16	F	1.040	182 182
WI -2446F	Ford	Small Block	4,000	1 772	639	-13.2	110 dish	5/64	5/64	3/16	P	0.912	143
WL-2446F 30	Ford	Small Block	4.030	1.772	655	-13.2	.110 dish	5/64	5/64	3/16	P	0.912	143
WL-2446F 40	Ford	Small Block	4.040	1.772	660	-13.2	.110 dish	5/64	5/64	3/16	Р	0.912	143
WL-2453F	Chevrolet	Big Block	4.251	1.640	668	-7.9	Dish	5/64	5/64	3/16	F	0.990	175



Part	En	gine	Bore	Comp.	Weight	Dome	Dome	Тор	2nd	Oil	Pin	Pin	Pin
Number	Mfgr.	Family	Dia.	Dist	(grams)	Volume	Shape	Ring	Ring	Ring	Style (S)	Dia.	Weight
WL-2453F 30	Chevrolet	Big Block	4.280	1.640	686	-7.9	Dish	5/64	5/64	3/16	F	0.990	175
WL-2453F 60	Chevrolet	Big Block	4.310	1.640	704	-7.9	Dish	5/64	5/64	3/16	F	0.990	175
WL-2465F	Chevrolet	Big Block	4.251	1.640	651	27.1	.270 dome	5/64	5/64	3/16	Р	0.990	154
WL-2465F 30 WL-2465F 60	Chevrolet	BIG BIOCK	4.281	1.640	666 666	25.7	.226 dome	5/64 5/64	5/64 5/64	3/16	P	0.990	154 154
WL -2481E	Buick	Ve	3,800	1.825	558	-24.5	245 dish	5/6/	5/6/	3/16	P	0.000	156
WL-2481F 30	Buick	V6 V6	3.830	1.825	574	-24.5	.245 dish	5/64	5/64	3/16	P	0.939	156
WL-2481F 40	Buick	V6	3.840	1.825	578	-24.5	.245 dish	5/64	5/64	3/16	Р	0.939	156
WL-2482F	Ford	Small Block	4.000	1.605	598	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.912	143
WL-2482F 20	Ford	Small Block	4.020	1.605	608	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.912	143
WL-2482F 30	Ford	Small Block	4.030	1.605	613	-2.7	Flat; 4 reliefs	5/64	5/64	3/16	Р	0.912	143
WL-2482F 40 WI -2482F 60	Ford	Small Block	4.040	1.605	628	-2.7	Flat: 4 reliefs	5/64	5/64	3/16	P	0.912	143
WI -2488F	Ford	Small Block	4 000	1 619	583	-2.0	Flat: 4 reliefs	1.5MM	1.5MM	4 0MM	P	0.912	143
WL-2488F 20	Ford	Small Block	4.020	1.619	593	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	P	0.912	143
WL-2488F 30	Ford	Small Block	4.030	1.619	598	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	Р	0.912	143
WL-2488F 40	Ford	Small Block	4.040	1.619	603	-2.0	Flat; 4 reliefs	1.5MM	1.5MM	4.0MM	Р	0.912	143
WL-2490NF 30	Chevrolet	Small Block	4.030	1.565	490	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
WL-2490NF 60	Chevrolet	Small Block	4.060	1.565	503	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
WL-2491NF 30	Chevrolet	Small Block	4.030	1.430	477	-3.4	Flat; 2 reliefs	1/16	1/16	3/16	F	0.927	133
WL-2491NF 60	Chevrolet	Small Block	4.060	1.430	490	-3.4	Flat; 2 reliefs	1/16	1/16	3/16		0.927	133
WL-2608F	Ford	4.6L	3.551	1.214	333	-10.2	.150 x 2.70" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
WL-2608F .75MM	Ford	4.6L 4.6l	3.500	1.214	345	-10.2	.150 x 2.70" dia. dish	1.5MM	1.5MM	3.0MM	F	0.866	107
WI W-2256F 30	Chevrolet	Small Block	4 030	1 563	554	-6.1	Flat: 4 reliefs	1/16	1/16	3/16	F	0.927	126
WLW-2256F 40	Chevrolet	Small Block	4.040	1.563	559	-6.1	Flat; 4 reliefs	1/16	1/16	3/16	F	0.927	126
WLW-2256F 60	Chevrolet	Small Block	4.060	1.563	566	-6.1	Flat; 4 reliefs	1/16	1/16	3/16	F	0.927	126
WLW-2488F 40	Ford	Small Block	4.040	1.619	577	-2.0	Flat; 4 reliefs	1/16	1/16	3/16	F	0.912	121
WLW-2603F 30	Chevrolet	Small Block	4.030	1.550	488	-10.9	Dish	1/16	1/16	3/16	F	0.927	114
WLW-2603F 60	Chevrolet	Small Block	4.060	1.550	503	-10.9	Dish	1/16	1/16	3/16	F	0.927	114
WLW-2606F 30	Chevrolet	Small Block	4.155	1.425	535	-16.2	Dish	1/16	1/16	3/16	F	0.927	126
WLW-2606F 60	Chevrolet	Small Block	4.185	1.425	550	-16.2	Dish	1/16	1/16	3/16	F	0.927	126

Piston Sets With Rings – Numerical Listing



		Engine		Available	Piston	Piston	Ring	Ring	Dome
P/N	Mfgr.	Family	CID	Oversizes	Set P/N	Qty.	Set P/N	Set Qty.	Shape
Hypereute	ectic								
8KH100CP 30	Chevrolet	Small Block	350	30-60	H100CP	8	R-8902	1	Flat; 2 reliefs
8KH116CP 30	Chrysler	Small Block	360	30-40-60	H116CP	8	E-251K	1	Flat; 2 reliefs
8KH120CP 30	Ford	Small Block	302	30	H120CP	8	R-8902	1	Flat; 2 reliefs
8KH124CL 30	Chevrolet	Small Block	383	30-60	H124CL	8	R-8902	1	Flat; 2 reliefs
8KH137CL 30	Chevrolet	Small Block	383	30	H137CL	8	R-8902	1	Dish
8KH273CP 30	Ford	Small Block	302	30-40-60	H273CP	8	E-251K	1	Flat; 4 reliefs
8KH345DCP 30 8KH345DCP 30	Chevrolet Chevrolet	Small Block Small Block	383 350	30-40-60 30-40-60	H345DCP H345DCP	8 8	E-251K E-251K	1 1	Flat; 4 reliefs Flat; 4 reliefs
8KH423DCP30 8KH423DCP30	Chevrolet	Small Block	383 350	30-40-60 30-40-60	H423DCP H423DCP	8	E-251K E-251K	1	.098 Dish; 4 reliefs
8KH426CP 30	Chevrolet	Big Block	454	30-40-60	H426CP	8	E-233K	1	100 dome: 1 relief
8KH591CP 50MM	Ford	Modular V8	4.6L 2V	50-75-1 00MM	H591CP	8	E-916K	1	152 dish
8KH616CP 30	Chevrolet	Small Block	400	30-40-60	H616CP	8	E-243K	1	Flat: 4 reliefs
8KH618CP 30	Chevrolet	Small Block	350	30-40-60	H618CP	8	E-251K	1	125 dome: 2 reliefs
8KH625CP 30	Chevrolet	Big Block	454	30-40-60	H625CP	8	E-233K	1	Flat: 2 reliefs
8KH631CP	Chevrolet	Small Block	350	30-40-60	H631CP	8	E-251K	1	Flat: 2 reliefs
8KH669DCP 30	Chevrolet	Small Block	350	30	H669DCP	8	E-921K	1	Flat: 4 reliefs
8KH669DCP 30	Chevrolet	Small Block	383	30	H669DCP	8	E-921K	1	Flat; 4 reliefs
8KH859CP	Chevrolet	Small Block	383	30-40-60	H859CP	8	E-251K	1	.110 dish; 2 reliefs
8KH860CP	Chevrolet	Small Block	383	30-40-60	H860CP	8	E-251K	1	Flat; 2 reliefs
POWERF	ORGED								
8KL2165F 30	Chevrolet	Small Block	327	30-40-60	L-2165F	8	E-251K	1	Flat; 4 reliefs
8KL2166NF 30	Chevrolet	Small Block	327	30-40-60	L-2166NF	8	E-251K	1	.125 dome
8KL2240NF 30	Chevrolet	Big Block	396	30-60	L-2240NF	8	E-243K	1	.182 dome
8KL2256F 30	Chevrolet	Small Block	350	30-40-60	L-2256F	8	E-251K	1	Flat; 4 reliefs
8KL2266F 30	Chrysler	Big Block	440	30-40-60	L-2266F	8	E-424K	1	Flat
8KL2304F 30	Chevrolet	Small Block	350	30-60	L-2304F	8	E-251K	1	.100 dome
8KL2352F 30	Chevrolet	Small Block	400	30-40	L-2352F	8	E-243K	1	.083 dish; 4 reliefs
8KL2355F 30	Chrysler	Big Block	440	30-40-60	L-2355F	8	E-424K	1	Flat
8KL2366F 30	Ford	429; 460	429	30-40	L-2366F	8	E-296K	1	Flat; 1 relief
8KL2377F 30	Chevrolet	Big Block	454	30-40-60	L-2377F	8	E-233K	1	Flat; 2 reliefs
8KL2379F 30	Ford	Cleveland/Modified V8	351C	30-40	L-2379F	8	E-251K	1	Flat; 2 reliefs
8KL2399NF 30	Chevrolet	Big Block	454	30-60	L-2399NF	8	E-233K	1	.095 dome
8KL2404F 30	Ford	429; 460	460	30-40-60	L-2404F	8	E-296K	1	.180 dish
8KL2441F 30	Chevrolet	Small Block	350	30	L-2441F	8	E-251K	1	Dish
8KL2443NF 30	Ford	429; 460	460	30-60	L-2443NF	8	E-296K	1	.400 dome
8KL2446F 30	Ford	Small Block	351W	30-40	L-2446F	8	E-251K	1	.110 dish
8KL2465F 30	Chevrolet	Big Block	454	30-60	L-2465F	8	E-233K	1	.226 dome
8KL2482F 30	Ford	Small Block	302	30-40-60	L-2482F	8	E-251K	1	Flat; 4 reliefs
8KL2488F 30	Ford	Small Block	302	30-40	L-2488F	8	E-458K	1	Flat; 4 reliefs
8KL2490NF 30	Chevrolet	Small Block	350	30-60	L-2490NF	8	R-8902	1	Flat; 2 reliefs
8KL2491NF 30	Chevrolet	Small Block	383	30-60	L-2491NF	8	R-8902	1	Flat; 2 reliefs
8KLW2256F 30	Chevrolet	Small Block	350	30-60	LW-2256F	8	R-8902	1	Flat; 4 reliefs





Piston Ring Technology

Speed-Pro piston rings dominate the racing industry with technically advanced design, dedicated research, and superior quality. We don't rely on advertised gimmicks and "trick of the week" designs. Our rings deliver optimal cylinder sealing under true operating conditions, and provide maximum oil control. Speed-Pro piston rings deliver superior performance under grueling race conditions every weekend, on oval tracks and drag strips world wide. Put our performance heritage, racing experience, and engineering superiority to work in your car!



Top compression ring

Reliable compression sealing, maximizing power output, and controlling "blow by" are the responsibility of the Speed-Pro top ring. Speed-Pro's top rings are engineered for instant seating, superior cylinder sealing, and optimum durability. Material choices include cast iron, high strength ductile iron, steel, and the new hardened and tempered "HellFire" alloy. Our premium ring sets feature moly or plasma-moly facings for enhanced performance under demanding conditions. The inherent strength of our materials allow Speed-Pro rings to maintain sealing integrity at extreme pressures and rpm. We supply rings for all popular high performance applications – street, strip, oval track, and off-road.



Second ring

Speed-Pro second rings are manufactured from SAE – j929a iron, providing excellent durability and superior oil control. The primary function of the second ring is oil control. Our tapered face design allows the second ring to work as a "scraper", reducing the potential for oil migration into the combustion chamber.

The race proven open gap design intentionally allows an escape path for residual combustion gases, reducing inter-ring pressure and keeping the top ring seated against it's groove. Without this escape path, trapped pressure will unseat the top ring, causing ring flutter and reduced cylinder sealing at high rpm. Our one piece second rings are far more effective and reliable than are competitive designs that attempt to retain combustion pressure lost through ineffective top rings. Beware – cylinder leakage tests are steady state – they do not account for time, temperature, piston movement, or true operating pressures.

Pro-Series

Professional racing trends have focused on lowering ring thickness and weight, and on reducing ring tension in an effort to minimize cylinder wall drag. Pro-Series ring sets are designed for serious racing, and offer several features which maximize horsepower potential. These rings sets are not normally recommended for street use. Most Pro-Series sets incorporate reduced radial wall thickness top and second rings for lower tension and enhanced sealing. They also include a very low tension, thin profile oil rings.

No other supplier can offer the horsepower, oil control, and durability we engineer into every set. If you want to join the winning team – choose Speed-Pro!

Honing Check List

- Torque main bearing caps to specified value.
- Attach torque plate and head gasket, torquing head bolts in proper sequence to the specified value.
- Check for satisfactory mounting of boring equipment on torque plate.
- Bore or rough hone cylinder to .003" less than desired finished size.
- Saturate cylinder and honing stones with honing lubricant.
- □ Hone with continuous supply of coolant.
- Hone with firm cutting pressure.
- Adjust rpm and reciprocation to insure proper crosshatch pattern.
- Conclude honing operation by allowing stones to cut at reduced pressure for several strokes to produce desirable plateaus.
- □ Clean thoroughly using hot soapy water and a nonmetallic bristle brush.
- □ Wipe bores with paper towels.
- Oil cylinder bores to prevent rust.
- Gap rings with torque plate attached.
- Oil bores, rings and pistons prior to assembly.





Reference To Sunnen Stone Numbers

I	Approx. Microfinish	Grit size	CV616 automatic stone set number	Hand operated stone set number	Approx. Microfinish	Grit size	CV616 automatic stone set number	Hand operated stone set number
	85-105	70	EHU-133		15-20	280		AN-501
	135-170	70		AN-101	8-13	400	JHU-820	
	25-40	150		AN-201	5-10	400		N-37-J85
	25-35	220	EHU-525		4-8	600	C-30-C03-81	
1	20-25	220		AN-301	3-5	600		NN40-C05
-	14-23	280	JHU-625					

Design, Features, and Installation Guidelines



Radial thickness

Most piston rings in the Speed-Pro line are manufactured to the Society of Automotive Engineers (SAE) D-wall specification for proper fit and easy installation. The radial thickness (front to back) of these compression rings can be determined using the following formula:

Radial thickness = bore diameter divided by 22

Example for a 4.00° bore: 4.00/22 = .182 radial thickness

Pressure back ("dykes") and most Pro-Series rings are manufactured with reduced radial wall thickness, to deliver greater bore conformability, and race winning performance in professionally prepared engines. Radial wall thickness dimensions for these unique rings are referenced in the appropriate catalog sections.



Side (lateral) clearance

Side clearance or lateral clearance is the measurement of space between the sides of the piston groove and the ring. Major piston and ring manufacturers have adopted the Society of Automotive Engineers specifications for ring and groove widths. This combination of specifications results in a side clearance standard of .002"/.004".

Racing engine builders that desire reduced side clearance may machine the top groove to a specification less that the SAE standard, but should maintain a side clearance of .001" minimum.

Compression ring end gaps in high performance engines

File fitting piston ring end gaps is not normally required for regular usage, but is a common procedure in racing applications. Most Speed-Pro rings are available in +.005" oversizes. Professional engine builders know that precisely setting the ring end gaps by "file fitting" is well worth the time and effort.

Comparative testing on a small block Chevrolet engine documented reduced blowby and increased horsepower as top ring end gaps were decreased. Blowby was reduced by approximately 50 percent, and horsepower increases ranged from 5 to 13 percent. The baseline test was run with top ring gaps set at .024". In the second test, top ring gaps were reduced to .016". An additional test was made with the top ring gaps set to .010". In this final test, the results again showed a reduction in blowby; but a noticeable loss of horsepower was observed at higher speeds. Examination of the rings indicated that the top rings were butting. Running with ring gaps butted will result in scuffing of cylinder walls and/or flaking of moly from the ring face.

Running with "ideal" top ring end gaps is certainly the goal. This test shows that it is better to have slight additional clearance than to have too little – and risk scuffing. When fitting rings to cylinder bores, every .001" change in bore diameter changes the end gap by approximately .003". (diameter changes affect the gap by the factor of pi...3.1416"). Example: an increase in bore diameter of .002" increases the ring gap by .002" x 3.1416" = .00628"





Piston Ring Selection Guidelines

					Appl	ication			
Piston Type	Standard Service	Light Truck & Towing	Moderate Street Perf.	Oval Track "Claimers"	High Perf. Street/Strip	Dirt Track & Off Road	Pro Street & Brackets	Fast Ovals and Drags	Blowers & Nitrous
E-Series									
Claimer Series									
Plasma-Moly Standard Gap									/
Chrome File Fit									
Plasma-Moly File Fit									
Pro Series									
HellFire Rings									

Application Codes



May be marginal due to high cost or ultimate strength

Will work, but exercise caution with timing/mixture

The best choice for this application





High Performance Ring End Gap Recommendation Guide

A "ring dynamics approach" has lead to new 2nd ring gap recommendations.

We now recommend that the 2nd ring should have a larger gap than the top ring. The key objective is to keep the top ring seated and sealed throughout the power stroke. This new direction has been proven effective in both O.E. vehicles and in racing environments. The larger gap recommendations are noted in the reference chart.

To aid in filing ring gaps, we offer the following hints:

- Place the butt end of a small sharp file in a vise. If several sets of rings are going to be filed, you may want to consider purchasing our ring gap filer part no. MT-135.
- File from outside face toward inside diameter to avoid chipping the face coating or leaving burrs on O.D. edges.
- Filing only one end of the ring allows you to use the other end as a reference – to verify that the gap remains straight and parallel.
- Remove sharp corners by stoning all gap edges.

There is some controversy as to the effect of coolant temperatures on ring end gaps. Some engine builders feel that if coolant temperature is low, they can narrow up on ring gaps – this is not true! Piston and ring temperatures remain the same whether the coolant temperature is high or low. If you consider thermal growth or expansion, the engine with higher coolant temperature would have bigger bores. The engine with the lower temperature would have smaller bores. The chart was developed for "normal" engine temperatures. If your engine coolant temperature tends to be low, you should run a larger ring end gap – to compensate for the smaller bores.

Installation Guidelines

- <u>Always</u> install Speed-Pro compression rings with pip marks (top of ring indicators) toward the top of the piston
- <u>Always</u> stagger end gaps on each of the ring grooves, oil rails, and expander
- Always use a ring expander when installing rings
- <u>Always</u> lubricate new rings with clean engine oil no dry starts!
- Do not "spiral" the rings onto the pistons.
 - results in ring deformation after installation, causing poor sealing
- Do not over-expand the rings. Over-expansion can lead to:
- ring breakage opposite the gap when using cast rings
- ring distortion when using ductile iron rings

Speed-Pro top rings (ductile iron, 4" bore)									
Moderate performance	.016018	(.004 per inch of bore diameter)							
Drag racing, oval track	.018020	(.0045 per inch of bore diameter)							
Nitrous oxide – street	.020022	(.005 per inch of bore diameter)							
Nitrous oxide – drag	.028030	(.007 per inch of bore diameter)							
Supercharged	.024026	(.006 per inch of bore diameter)							
S	peed-Pro 2nd rings (cas	st iron, 4" bore)							
Moderate performance	.020022	(.005 per inch of bore diameter)							
Oval track	.022024	(.0055 per inch of bore diameter)							
Nitrous oxide – street	.024026	(.006 per inch of bore diameter)							
Nitrous oxide – drag	.028030	(.007 per inch of bore diameter)							
Supercharged	.024026	(.006 per inch of bore diameter)							

chart and gap the rings to the high limit. If the ring's end surfaces show shiny spots after use, it is evidence of ring butting. This means that your rings are operating at a higher than average temperature and require additional gap. If there is no indication of butting, then the end gap can be narrowed until you reach the "ideal" condition. Remember, stay on the safe side!

					PIS	STON	RIN	G SET	APPLICATIONS
Engine	Notes	Bore	Ring Set Type	Set P/N	Тор	2nd	Oil	Tension	Available Sizes
AMC								•	
390 8 Cvl.		4,165	Plasma-Moly File Fit	R-9349	1/16	1/16	3/16	Low	5-35
401 8 Cvl.		4,165	Plasma-Moly File Fit	R-9349	1/16	1/16	3/16	Low	5-35
Buick									
221.6 Cv/	1075.00	2 900	Plaama Maly	D 10/00	E/GA	E/GA	2/16	Ctd	Std 20
231 0 Cyl.	1975-00	3.000	Plasma-Moly File Fit	R-10435	5/64	5/64	3/16	Std.	35
			Plasma-Moly File Fit	R-9985	1/16	1/16	3/16	Low	5-15-25-35
400 8 Cyl.		4.040	Plasma-Moly File Fit	R-9357	1/16	1/16	3/16	Low	35
455 8 Cyl.	1970-76	4.313	Plasma-Moly File Fit	R-5883	5/64	5/64	3/16	Std.	35
Chevrolet									
140 4 Cyl.	Vega	3.500	Plasma-Moly File Fit	R-9840	1/16	1/16	3/16	Low	35
283 8 Cyl.		3.875	Plasma-Moly File Fit	R-9621	1/16	1/16	3/16	Low	35-65
			Plasma-Moly	R-9967	1/16	1/16	1/8	Std.	60
	+ 125	4 000	Plasma-Moly File Fit	R-9211 R-9968	1/16	1/16	1/8 1/8	LOW	65 30-40-60
	+.125	7.000	Plasma-Moly File Fit	R-9342	1/16	1/16	1/8	Std.	35-45-65
	+.125		Dykes File Fit	R-9941	.031	1/16	3/16	Low	65
302 8 Cyl.	1968-70	4.000	Plasma-Moly	R-9903	5/64	5/64	3/16	Std.	Std-20-30-60
-			Plasma-Moly File Fit	R-9343	5/64	5/64	3/16	Std.	5-25-35-45-65
			Claimer	R-6902	1/16	1/16	3/16	Std.	Std-30-60
			Claimer - Moly Blooma Moly File Fit	R-8902	1/16	1/16	3/16	Std.	Std-30-40-60
			Plasma-Moly File Fit	R-9902 R-9771	1/10	1/10	3/16	Std.	5-25-35-45-65
			Plasma-Moly File Fit	R-9401	1/16	1/16	3/16	Low	5-10-25-35-45-65
			Moly Top & 2nd Rings	R-10277	1/16	1/16	3/16	Low	35
			Plasma-Moly	R-9968	1/16	1/16	1/8	Std.	30-40-60
			Plasma-Moly File Fit	R-9342	1/16	1/16	1/8	Std.	35-45-65
			Plasma-Moly File Fit	R-10393	.043	1/16	3/16	Std.	35
			Dykes File Fit	R-9941	.043	1/16	3/16	Low	65
305 8 Cyl.	1976-92	3.736	Plasma-Moly File Fit	R-10434	5/64	5/64	3/16	Std.	35
			Plasma-Moly File Fit	R-10473	5/64	5/64	3/16	Low	35-65
		0.075	Plasma-Moly File Fit	R-10294	1/16	1/16	3/16	Sta.	35
307 8 Cyl.		3.875	Plasma-Moly File Fit	R-9621	1/16	1/16	3/16	Low	35-65
			Plasma-Molv File Fit	R-9907	1/16	1/16	1/8	Low	65
327 8 Cvl.		4,000	Plasma-Moly	B-9903	5/64	5/64	3/16	Std	Std-20-30-60
	1962-69		Plasma-Moly File Fit	R-9343	5/64	5/64	3/16	Std.	5-25-35-45-65
			Claimer	R-6902	1/16	1/16	3/16	Std.	Std-30-60
			Claimer - Moly	R-8902	1/16	1/16	3/16	Std.	Std-30-40-60
			Plasma-Moly File Fit	R-9902 R-0771	1/16	1/16 1/16	3/16	Sta. Std	Sta-20-30-40-60 5-25-35-45-65
			Moly Top & 2nd Rings	R-10144	1/16	1/16	3/16	Std.	35
			Chrome File Fit	R-9772	1/16	1/16	3/16	Std.	35
			Plasma-Moly File Fit	R-9401	1/16	1/16	3/16	Low	5-10-25-35-45-65
			Moly Top & 2nd Rings	R-10277	1/16	1/16	3/16	Low	35
			Plasma-Moly File Fit	R-9968 R-03/2	1/16	1/16	1/8 1/8	Sta. Std	30-40-60
			Plasma-Moly File Fit	R-10393	.043	1/16	3/16	Std.	35
			Plasma-Moly File Fit	R-9786	.043	1/16	3/16	Low	5-35-65
			Dykes File Fit	R-9941	.031	1/16	3/16	Low	65
347 LS1 (99.0mm) 8 Cyl.		3.897	Plasma-Moly File Fit	R-10598	1.5mm	1.5mm	3.0mm	Std.	.1338MM
350 8 Cyl.	1967-85	4.000	Plasma-Moly Plasma-Moly File Fit	R-9903 R-03/13	5/64 5/64	5/64 5/64	3/16	Std. Std	Std-20-30-60
			Claimer	R-6902	1/16	1/16	3/16	Std.	Std-30-60
			Claimer - Moly	R-8902	1/16	1/16	3/16	Std.	Std-30-40-60
			Plasma-Moly	R-9902	1/16	1/16	3/16	Std.	Std-20-30-40-60
			Plasma-Moly File Fit	R-9771	1/16	1/16	3/16	Std.	5-25-35-45-65
			Moly Top & 2nd Rings	R-10144	1/16	1/16	3/16	Std.	35
			Unrome File Fit	H-9//2	1/16	1/16	3/16	Sta.	30 5-10-25-35 45 65
			Moly Ton & 2nd Rings	R-10277	1/16	1/16	3/16	Low	35
			Plasma-Moly	R-9968	1/16	1/16	1/8	Std.	30-40-60
			Plasma-Moly File Fit	R-9342	1/16	1/16	1/8	Std.	35-45-65
			Plasma-Moly File Fit	R-10393	.043	1/16	3/16	Std.	35

PISTON RING SET APPLICATIONS



Engine	Notes	Bore	Ring Set Type	Set P/N	Тор	2nd	Oil	Tension	Available Sizes
Chevrolet (Co	ont'd)								
350 8 Cyl. (Cont'd)		4.000	Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9786 R-10701 R-9941	.043 1.5mm .031	1/16 1.5mm 1/16	3/16 3.0mm 3/16	Low Std. Low	5-35-65 5-35-45-65 65
396 8 Cyl.	1965-70	4.094	Plasma-Moly File Fit	R-9210	5/64	5/64	3/16	Low	35-65
400 8 Cyl.	1970-77 1970-77	4.125	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-10374 R-5879 R-6375 R-8375 R-10375 R-10248 R-9346 R-10279 R-10202 R-10202 R-10206 R-9787 R-10702 R-9681	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Low Low Std. Low Std. Low Std. Low	$\begin{array}{c} 30\mbox{-}60 \\ 5\mbox{-}35\mbox{-}65 \\ 30\mbox{-}40 \\ 30\mbox{-}40 \\ 5\mbox{-}25\mbox{-}35\mbox{-}45\mbox{-}65 \\ 5\mbox{-}25\mbox{-}35\mbox{-}45\mbox{-}65 \\ 5\mbox{-}35\mbox{-}45\mbox{-}65 \\ 5\mbox{-}35\mbox{-}65\mbox{-}5\mbox{-}35\mbox{-}45\mbox{-}65 \\ 35\mbox{-}35\mbox{-}45\mbox{-}65 \\ 35\mbox{-}35\mbox{-}45\mbox{-}65 \\ 35\mbox{-}35\mbox{-}45\mbox{-}65 \\ 35\mbox{-}45\mbox{-}65\mbox{-}45\mbox{-}$
402 8 Cyl.	1970-72	4.125	Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Moly Top & 2nd Rings Plasma-Moly File Fit	R-5879 R-6375 R-8375 R-10375 R-10279 R-9787	5/64 1/16 1/16 1/16 1/16 .043	5/64 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Low Low	5-35-65 30-40 30-40-60 Std-30-40 5 5-35-65
427 8 Cyl.	1966-69 1966-69 +.125 +.100 +.125 +.125 +.125	4.250 4.375 4.350 4.375	Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9905 R-9590 R-9904 R-9745 R-9344 R-9788 R-10177 R-9799 R-9278 R-9406 R-9789 R-9789 R-10306	5/64 5/64 1/16 1/16 .043 .031 1/16 1/16 1/16 .043 .031	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Low Low Std. Low Low Low Low Low	Std-30-60 5-35-65 Std-20-30-60 35-65 5-35-65 35-65 65 5 5-35-65 5 5 5 5 5 5 5
454 8 Cyl.	1970-76 1970-76 +.125 +.100 +.125 +.125	4.250 4.375 4.350 4.375	Plasma-Moly Plasma-Moly File Fit Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9905 R-9590 R-9904 R-9745 R-9344 R-9788 R-10703 R-10177 R-9799 R-9278 R-9406 R-10306	5/64 5/64 1/16 1/16 .043 1.5mm .031 1/16 1/16 1/16 .031	5/64 5/64 1/16 1/16 1/16 1.5mm 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3.0mm 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Low Low Std. Low Std. Low Low Low	Std-30-60 5-35-65 Std-20-30-60 35-65 5-35-65 35-65 5-35-65 65 5 5-35-65 5 5 5 5 5 5 5
502 8 Cyl.		4.466	Plasma-Moly File Fit	R-10575	2.0mm	1.5mm	4.0mm	Std.	5
Race Blocks 8 Cyl.		$\begin{array}{r} 4.440\\ 4.500\\ 4.563\\ 4.625\\ 4.500\\ 4.440\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.625\\ 4.500\end{array}$	Plasma-Moly File Fit Plasma-Moly File Fit	R-10133 R-10451 R-10441 R-10595 R-9332 R-10317 R-10317 R-10319 R-10452 R-10450 R-10316 R-10318 R-10339 R-10706	1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16	1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Low Low Std. Std. Low Low Std. Std. Std. Std. Std.	5-35 5-35 5 Std-60 5-35 5 5-35 5-45 5-45 5-45 5 5-45 5 5-45 5 5-35-65
Chrysler									
273 8 Cyl.		3.625	Plasma-Moly File Fit	R-9637	1/16	1/16	3/16	Low	5
340 8 Cyl.		4.040	Plasma-Moly File Fit	R-9357	1/16	1/16	3/16	Low	35
360 8 Cyl.	1971-80	4.000	Plasma-Moly	R-9903	5/64	5/64	3/16	Std.	Std-20-30-60

					PIS	STON		G SET	APPLICATIONS
Engine	Notes	Bore	Ring Set Type	Set P/N	Тор	2nd	Oil	Tension	Available Sizes
Chrysler (Co	nťd)	1	-	1					-1
360 8 Cyl. (Cont'd)	1971-80	4.000	Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Moly Top & 2nd Rings Chrome File Fit Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly File Fit Dykes File Fit	R-9343 R-6902 R-8902 R-9902 R-9771 R-10144 R-9772 R-9401 R-10277 R-9786 R-9941	5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Std. Low Low Low	5-25-35-45-65 Std-30-60 Std-30-40-60 Std-20-30-40-60 5-25-35-45-65 35 35 5-10-25-35-45-65 35 5-35-65 65
383 8 Cyl.	1959-71 1959-71	4.250	Plasma-Moly Plasma-Moly File Fit Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit	R-9905 R-9590 R-9904 R-9745 R-9344	5/64 5/64 1/16 1/16 1/16	5/64 5/64 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Low	Std-30-60 5-35-65 Std-20-30-60 35-65 5-35-65
426 8 Cyl.	1965-71 1965-71	4.250	Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9905 R-9590 R-9788 R-10177	5/64 5/64 .043 .031	5/64 5/64 1/16 1/16	3/16 3/16 3/16 3/16	Std. Std. Low Low	Std-30-60 5-35-65 35-65 65
426 Hemi 8 Cyl.		4.250	Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9904 R-9745 R-9344 R-10177	1/16 1/16 1/16 .031	1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16	Std. Std. Low Low	Std-20-30-60 35-65 5-35-65 65
440 8 Cyl.	1966-78	4.320	Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit	R-9224 R-9798 R-9278 R-10704	5/64 1/16 1/16 1.5mm	5/64 1/16 1/16 1.5mm	3/16 3/16 3/16 3.0mm	Std. Std. Low Std.	35-65 5-35-65 5-35-65 5-35-65
Ford									
1.6L 4 Cyl.		3.188	Plasma-Moly File Fit	R-10230	1/16	5/64	5/32	Low	5
2.0L 4 Cyl.	1971-74	3.575	Plasma-Moly File Fit	R-9602	1/16	1/16	1/8	Low	5
2.3L OHC 4 Cyl.	1974-84	96.0mm	Plasma-Moly File Fit Plasma-Moly	R-10576 R-10515	1/16 2.0mm	1/16 2.0mm	3/16 3/16	Low Std.	35 30
281 (90.2mm) 4.6L 8 Cyl.		3.5512	Plasma-Moly File Fit	R-10596	1.5mm	1.5mm	3.0mm	Std.	.6489-1.14MM
289 8 Cyl.	1963-68 1963-68	4.000	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9903 R-9343 R-6902 R-8902 R-9771 R-10144 R-9902 R-9401 R-10277 R-9968 R-9342 R-9786 R-9941	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Low Low Std. Std. Std. Std. Low Low	Std-20-30-60 5-25-35-45-65 Std-30-60 Std-30-40-60 5-25-35-45-65 35 Std-20-30-40-60 5-10-25-35-45-65 35 30-40-60 35-45-65 5-35-65 65
302 8 Cyl.	1968-84 1968-84 1986-94 1986-94 1986-94	4.000	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit	H-9903 R-9343 R-6902 R-9771 R-10144 R-9902 R-9401 R-10277 R-9968 R-9342 R-10393 R-9786 R-10701 R-10471 R-10471 R-10472 R-10470 R-9941	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Std. Std.	5t0-20-30-60 5-25-35-45-65 5td-30-60 5-25-35-45-65 35 5td-20-30-40-60 5-10-25-35-45-65 35 30-40-60 35-45-65 5-35-65 5-35-65 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 5td-30-40 35-45 5 5td-30-40 35-45 5 5td-30-40 5td-30-40 35-45 5td-30-40 5td-30-40 5td-30-40 5td-30-40 5td-30-4

PISTON RING SET APPLICATIONS

Engine	Notes	Bore	Ring Set Type	Set P/N	Тор	2nd	Oil	Tension	Available Sizes
Ford (Cont'd)									
351C 8 Cyl.	1970-74 1970-74	4.000	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Moly Top & 2nd Rings Chrome File Fit Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9903 R-9343 R-6902 R-9902 R-9771 R-10144 R-9772 R-9401 R-10277 R-9968 R-9342 R-10393 R-9786 R-9941	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Std. Low Low Std. Std. Std. Std. Std. Std.	Std-20-30-60 5-25-35-45-65 Std-30-60 Std-30-40-60 Std-20-30-40-60 5-25-35-45-65 35 5-10-25-35-45-65 35 30-40-60 35-45-65 35 5-35-65 65
351M, 400 8 Cyl.	1971-79 1971-79	4.000	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Moly Top & 2nd Rings Chrome File Fit Plasma-Moly File Fit Moly Top & 2nd Rings	R-9903 R-9343 R-6902 R-8902 R-9902 R-10144 R-9772 R-9401 R-10277	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Std. Low Low	Std-20-30-60 5-25-35-45-65 Std-30-60 Std-30-40-60 Std-20-30-40-60 35 35 5-10-25-35-45-65 35
351W 8 Cyl.	1969-92 1969-92	4.000	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Moly Top & 2nd Rings Plasma-Moly Plasma-Moly Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit Dykes File Fit	R-9903 R-9343 R-6902 R-9902 R-9971 R-10144 R-9401 R-10277 R-9968 R-9342 R-9786 R-9941	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Low Low Std. Std. Std. Std. Low Low	Std-20-30-60 5-25-35-45-65 Std-30-60 Std-30-40-60 Std-20-30-40-60 5-25-35-45-65 35 5-10-25-35-45-65 35 30-40-60 35-45-65 5-35-65 65
390 8 Cyl.	1966-71 1966-71	4.050	Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit	R-9219 R-9220 R-9281	5/64 5/64 1/16	5/64 3/32 1/16	3/16 3/16 3/16	Std. Std. Low	35 35 35
406 8 Cyl.	1962-63	4.130	Plasma-Moly File Fit	R-9345	1/16	1/16	1/8	Low	35
427 8 Cyl.		4.233	Plasma-Moly File Fit	R-9767	1/16	1/16	3/16	Low	35
428 8 Cyl.		4.130	Plasma-Moly File Fit Plasma-Moly File Fit	R-9280 R-9345	1/16 1/16	1/16 1/16	3/16 1/8	Low Low	5-35 35
429 8 Cyl.		4.360	Plasma-Moly File Fit	R-9374	1/16	1/16	3/16	Low	5-35
460 8 Cyl.		4.360	Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit	R-10601 R-9374 R-10705	1/16 1/16 1.5mm	1/16 1/16 1.5mm	3/16 3/16 3.0mm	Std Low Std.	5-35-65 5-35 5-35-65
Race Blocks 8 Cyl.		$\begin{array}{c} 4.500\\ 4.563\\ 4.625\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.625\\ 4.500\end{array}$	Plasma-Moly File Fit Plasma-Moly File Fit	R-10451 R-10441 R-10433 R-10317 R-10319 R-10452 R-10450 R-10316 R-10318 R-10339 R-10706	1/16 1/16 1/16 1/16 .043 .043 .043 .043 .043 .043 .047 1.5mm	1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Low Low Std. Std. Low Low Std. Std. Std.	5-35 5 5-35 5 5-45 5-45 5-45 5-45 5-45 5
Honda									
1.6L.4.Cvl		75mm	Plasma-Moly File Fit	B-10500	1.0mm	1.2mm	2.8mm	Std	13- 64MM
1.0L 4 Cyl.		01		D 10000	1.000	1.0	2.011111	Olu.	10 CAMM
Oldsmobile		o i mm	FIRE FILE	m-10000	1.0mm	ı.∠mm	∠.omm	510.	. 13041VIIVI
400 8 Cyl.	1965-70	4.000	Plasma-Moly	R-9903	5/64	5/64	3/16	Std.	Std-20-30-60

					PIS	STON	I RIN	G SET	APPLICATIONS
Engine	Notes	Bore	Ring Set Type	Set P/N	Тор	2nd	Oil	Tension	Available Sizes
Oldsmobile (Cont'd)								
400 8 Cyl. (Cont'd)	1965-70	4.000	Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Moly Top & 2nd Rings Chrome File Fit Plasma-Moly File Fit Moly Top & 2nd Rings	R-9343 R-6902 R-8902 R-9902 R-9771 R-10144 R-9772 R-9401 R-10277	5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	5/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Std. Std. Std. Low Low	5-25-35-45-65 Std-30-60 Std-30-40-60 Std-20-30-40-60 5-25-35-45-65 35 35 5-10-25-35-45-65 35
455 8 Cyl.	1968-76 1968-76	4.125	Plasma-Moly Plasma-Moly File Fit Claimer Claimer - Moly Plasma-Moly Plasma-Moly File Fit Plasma-Moly File Fit	R-10374 R-5879 R-6375 R-8375 R-10375 R-9346 R-9787	5/64 5/64 1/16 1/16 1/16 1/16 .043	5/64 5/64 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Std. Std. Low Low	30-60 5-35-65 30-40 30-40-60 Std-30-40 5-25-35-45-65 5-35-65
DRCE Blocks 8 Cyl.		$\begin{array}{c} 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.500\\ 4.563\\ 4.625\\ 4.500\end{array}$	Plasma-Moly File Fit Plasma-Moly File Fit	R-10451 R-10441 R-10317 R-10319 R-10452 R-10450 R-10316 R-10318 R-10339 R-10706	1/16 1/16 1/16 .043 .043 .043 .043 .043 .047 1.5mm	1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16	3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	Std. Std. Low Std. Std. Low Low Std. Std. Std.	5-35 5 5-35 5 5-45 5-45 5-45 5-45 5 5-35-65
Pontiac									
301 8 Cyl.	1977-81	4.000	Plasma-Moly File Fit Plasma-Moly File Fit Plasma-Moly File Fit	R-9343 R-9771 R-9401	5/64 1/16 1/16	5/64 1/16 1/16	3/16 3/16 3/16	Std. Std. Low	5-25-35-45-65 5-25-35-45-65 5-10-25-35-45-65
350 8 Cyl.		3.875	Plasma-Moly Plasma-Moly File Fit	R-9967 R-9211	1/16 1/16	1/16 1/16	1/8 1/8	Std. Low	60 65
400 8 Cyl.	1967-79	4.120	Plasma-Moly File Fit Plasma-Moly File Fit	R-9228 R-9255	5/64 1/16	5/64 1/16	3/16 1/8	Std. Low	35 35
428 8 Cyl.	1967-69	4.120	Plasma-Moly File Fit Plasma-Moly File Fit	R-9228 R-9255	5/64 1/16	5/64 1/16	3/16 1/8	Std. Low	35 35
455 8 Cyl.		4.151	Plasma-Moly File Fit	R-9548	1/16	1/16	3/16	Low	65



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
HellFire Rin	ig Sets					
HellFire rings are r Tension oil ring for	now availab exceptiona	le in complete ring s al oil control.	sets. The n	ow famous HellFire	top rings are combined with a SPE	ED-PRO reverse twist second ring and a Standard
75mm	1.0mm 1.2mm 2.8mm	R-19200 BR-19-124 BT-10-531 SS-50U-3957	4 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit HellFire Standard Tension	Std50MM
81mm	1.0mm 1.2mm 2.8mm	R-19201 BR-19-125 BT-10-556 SS-50U-3995	4 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit HellFire Standard Tension	Std50MM
84mm	1.0mm 1.2mm 2.8mm	R-19202 BR-19-126 BT-10-640 SS-50U-3767	4 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit HellFire Standard Tension	Std Only
84.8mm	1.5mm 1.75mm 3.0mm	R-19206 BR-19-128 RBT-10-2994 SS-5011-3677	4 Cyl.	Top Ring Second Ring Oil Bing	Standard Fit HellFire Standard Tension	Std50MM
90.2mm	1.5mm 1.5mm 3.0mm	R-19115 BR-19-130 RBT-10-227 SS-50U-3923	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension	.136489-1.14MM
99.0mm	1.5mm 1.5mm 3.0mm	R-19114 BR-19-129 RBT-10-303 SS-50U-3721	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension	.1338MM
4.000	1/16 1/16 3/16	R-19100 BR-19-111 RBT-10-072 SS-50U-2800	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5-35-45-65
4.000	1.5mm 1.5mm 3.0mm	R-19112 BR-19-131 RBT-10-209 SS-50U-3687	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension	5-35-65
4.125	1/16 1/16 3/16	R-19101 BR-19-112 RBT-10-096 SS-50U-462	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5-35-45-65
4.125	1.5mm 1.5mm 3.0mm	R-19113 BR-19-132 RBT-10-283 SS-50U-3771	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension	65
4.250	1/16 1/16 3/16	R-19102 BR-19-113 RBT-10-075 SS-50U-619	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	35-65
4.320	1/16 1/16 3/16	R-19103 BR-19-114 RBT-10-076 SS-50U -424	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	35
4.360	1/16 1/16 3/16	R-19104 BR-19-115 RBT-10-089 SS-50U-639	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	35
4.375	1/16 1/16 3/16	R-19105 BR-19-116 RBT-10-077 SS-50U-705	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5
4.440	1/16 1/16 3/16	R-19106 BR-19-117 RBT-10-107 SS-50U-632	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes			
HellFire Ri	ng Sets	- cont'd.							
4.500	1/16 1/16 3/16	R-19107 BR-19-118 RBT-10-180 SS-50U-787	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5-35-65			
4.500	.043 .043 3.0mm	R-19117 BR-19-119 RBT-10-317 SS-99U-2023	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Low Tension	5-65			
4.600	1/16 1/16 3/16	R-19109 BR-19-108 RBT-10-212 SS-50U-2704	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5			
4.600	.043 1/16 3/16	R-19108 BR-19-102 RBT-10-212 SS-50U-2704	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5			
4.600	.043 .043 3.0mm	R-19118 BR-19-102 RBT-10-233 SS-99U-2011	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Low Tension	5-30			
4.675	.043 1/16 3/16	R-19110 BR-19-104 RBT-10-194 SS-50U-1680	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit HellFire Standard Tension	5			
Claimer Series Ring Sets									
A new series of piston ring sets, featuring race proven designs combined with outstanding value. Beveled 1/16" top rings deliver enhanced high RPM sealing. Claimer Series sets are also available with a moly faced top ring, for greater durability. All of these sets utilize a tapered iron second ring, which provides improved oil control under race conditions. Although economically priced. Claimer Series sets still include our famous SS50U oil ring.									
4.000	1/16 1/16 3/16	R-6902 BT-10-557 RBT-10-102 SS-5011-5029	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit Standard Standard Tension	Std-30-60			
4.000	1/16 1/16 3/16	R-8902 BR-10PF-177 RBT-10-102 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit Moly Standard Tension	Std-30-40-60			
4.125	1/16 1/16 3/16	R-6375 BT-10-059 RBT-10-084 SS-50U-640	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Fit Standard Standard Tension	30-40			
4.125	1/16 1/16 3/16	R-8375 BRI-10Y-093 RBT-10-084 SS-5011-640	8 Cyl.	Top Ring Second Ring Oil Bing	Standard Fit Moly Standard Tension	30-40-60			
Plasma-Mo	ly Stan	dard Gap Ri	ing Set	3					
These sets includ generation Plasm improved top ring where file fitting is	e all of the f a Moly. Imp lubrication.	eatures of SPEED- proved bond strengt Due to the high me ary.	PRO's file fi h of this appelting point of the second seco	t plasma-moly sets blied coating provid of moly, this ring se	, without the need for file fitting. The les excellent resistance to flaking. T t is highly resistant to scuffing. Reco	e face of the top rings are filled with the latest he controlled prorosity of the coating results in ommended for street use, marine use, and for racing			
3.780	5/64 5/64 3/16	R-10515 BR-18PF-161 RBT-10-098 SS-50U-5026	4 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	30			
3.800	5/64 5/64 3/16	R-10499 BR-18PF-159 RBT-10-035 SS-50U-267	6 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-30			
3.875	1/16 1/16 1/8	R-9967 BR-18PF-060 RBT-10-033 SS-50U-1880	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	60			



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
Plasma-Mo	ly Stan	dard Gap R	ing Sets	- cont'd.	L	I
4.000	5/64 5/64 3/16	R-9903 BR-18PF-063 RBT-10-022 SS-5011-5029	8 Cyl.	Top Ring Second Ring Oil Bing	Standard Gap Plasma-Moly Standard Tension	Std-20-30-60
4.000	1/16 1/16 3/16	R-9902 BR-18PF-062 RBT-10-102 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-20-30-40-60
4.000	1/16 1/16 1/8	R-9968 BR-18PF-062 RBT-10-102 SS-50U-1856	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	30-40-60
4.000	1.5mm 1.5mm 4.0mm	R-10471 BR-18PF-150 RBT-10-201 SS-50U-5066	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-30-40
4.125	5/64 5/64 3/16	R-10374 BR-18PF-131 RBT-10-028 SS-50U-462	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	30-60
4.125	1/16 1/16 3/16	R-10375 BR-18PF-132 RBT-10-193 SS-50U-462	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-30-40
4.250	5/64 5/64 3/16	R-9905 BR-18PF-065 RBT-10-024 SS-50U-619	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-30-60
4.250	1/16 1/16 3/16	R-9904 BR-18PF-064 RBT-10-103 SS-50U-619	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-20-30-60
4.360	1/16 1/16 3/16	R-10593 BR-18PF-188 RBT-10-289 SS-50U-639	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	30
4.500	1/16 1/16 3/16	R-10595 BR-18PF-191 RBT-10-302 SS-50U-787	8 Cyl.	Top Ring Second Ring Oil Ring	Standard Gap Plasma-Moly Standard Tension	Std-60
Plasma-Mo	ly File	Fit Ring Set	s	-		
SPEED-PRO's er Plasma Moly. Im lubrication. Due t gap will deliver m	ngineering e proved bonc to the high m aximum pov	xpertise delivers su strength of this ap nelting point of moly ver.	uperior qualit oplied coating y, this ring se	y piston ring sets wit provides excellent t is highly resistant	th numerous advantages. The fact resistance to flaking. The controll to scutfing. Recommended use for	ce of the top rings are filled with the latest generation led porosity of the coating results in improved top ring or all racing applications, where file fitting the ring end
75mm	1.0mm 1.2mm 2.8mm	R-10599 RF-18PF-194 RBT-10-309 SS-50U-3957	4 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	.1364MM
81mm		R-10600	4 Cyl.		File Fit	.1364MM

1.0mm	RF-18PF-195		Top Ring	Plasma-Moly	
1.2mm	RBT-10-310		Second Ring		
2.8mm	SS-50U-3962		Oil Ring	Standard Tension	
	R-10230	4 Cyl.		File Fit	5
1/16	BR-18PF-001	-	Top Ring	Plasma-Moly	
5/64	RBT-10-063		Second Ring		
4.0mm	SS-50U-5046		Oil Ring	Low Tension	
	R-9840	4 Cyl.		File Fit	35
1/16	BR-18PF-054		Top Ring	Plasma-Moly	
1/16	RBT-10-101		Second Ring		
3/16	SS-50U-707		Oil Ring	Low Tension	
	1.0mm 1.2mm 2.8mm 1/16 5/64 4.0mm 1/16 1/16 3/16	1.0mm RF-18PF-195 1.2mm RBT-10-310 2.8mm SS-50U-3962 1/16 BR-18PF-001 5/64 RBT-10-063 4.0mm SS-50U-5046 R-9840 1/16 BR-18PF-054 1/16 BR-18PF-054 1/16 BR-18PF-054 1/16 SS-50U-707	1.0mm RF-18PF-195 1.2mm RBT-10-310 2.8mm SS-50U-3962 R-10230 4 Cyl. 1/16 BR-18PF-001 5/64 RBT-10-063 4.0mm SS-50U-5046 R-9840 4 Cyl. 1/16 BR-18PF-054 1/16 BR-18PF-054 1/16 SS-50U-707	1.0mm RF-18PF-195 Top Ring 1.2mm RBT-10-310 Second Ring 2.8mm SS-50U-3962 Oil Ring 2.8mm SS-50U-3962 Oil Ring 1/16 BR-18PF-001 Top Ring 5/64 RBT-10-063 Second Ring 4.0mm SS-50U-5046 Oil Ring 1/16 BR-18PF-054 Top Ring 1/16 BR-18PF-054 Top Ring 1/16 BR-18PF-054 Top Ring 1/16 SS-50U-5046 Oil Ring 3/16 SS-50U-707 Oil Ring	1.0mm RF-18PF-195 Top Ring Plasma-Moly 1.2mm RBT-10-310 Second Ring Standard Tension 2.8mm SS-50U-3962 Oil Ring Standard Tension 2.8mm SS-50U-3962 Oil Ring Standard Tension 1/16 BR-18PF-001 Top Ring Plasma-Moly 5/64 RBT-10-063 Second Ring Plasma-Moly 5/64 RBT-10-063 Second Ring Low Tension 4.0mm SS-50U-5046 Oil Ring Low Tension 7/16 BR-18PF-054 Top Ring Plasma-Moly 1/16 BR-18PF-054 Top Ring Plasma-Moly 1/16 SS-50U-707 Oil Ring Low Tension



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes				
Plasma-Mo	Plasma-Moly File Fit Ring Sets - cont'd.									
3.551 (90.2mm)	1.5mm 1.5mm 3.0mm	RF-13PF-025 RF-13PF-025 RBT-10-227 SS-50U-3923	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	.6489-1.14MM				
3.575	1/16 1/16 1/8	R-9602 BR-18PF-002 RBT-10-073 SS-50U-1848	4 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5				
3.625	1/16 1/16 3/16	R-9637 BR-18PF-003 RBT-10-061 SS-50U-5006	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5				
3.736	5/64 5/64 3/16	R-10434 BR-18PF-143 RBT-10-203 SS-50U-757	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35				
3.736	5/64 5/64 3/16	R-10473 BR-18PF-143 RBT-10-203 SS-50U-5049	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35-65				
3.736	1/16 1/16 3/16	R-10294 BR-18PF-110 RBT-10-178 SS-50U-757	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35				
3.736	1/16 1/16 3/16	R-10295 BR-18PF-110 RBT-10-178 SS-50U-5049	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35				
3.780	1/16 1/16 3/16	R-10576 BR-18PF-173 RBT-10-236 SS-50U-585	4 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35				
3.800	5/64 5/64 3/16	R-10437 BR-18PF-144 RBT-10-204 SS-50U-267	6 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35				
3.800	1/16 1/16 3/16	R-9985 BR-18PF-076 RBT-10-109 SS-50U-5034	6 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-15-25-35				
3.875	1/16 1/16 3/16	R-9621 BR-18PF-007 RBT-10-079 SS-50U-573	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35-65				
3.875	1/16 1/16 1/8	R-9211 BR-18PF-007 RBT-10-079 SS-50U-1853	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	65				
3.897	1.5mm 1.5mm 3.0mm	R-10598 RF-13PF-026 RBT-10-303 SS-50U-3721	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	.1338MM				
4.000	5/64 5/64 3/16	R-9343 BR-18PF-013 RBT-10-022 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-25-35-45-65				
4.000	1/16 1/16 3/16	R-9771 BR-18PF-012 RBT-10-072 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-25-35-45-65				
4.000	1/16 1/16 3/16	R-10144 BR-18PF-012 RBT-10PF-001 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Plasma-Moly Standard Tension	35				



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
Plasma-Mo	ly File	Fit Ring Set	s - cont	ď.		
4.000	1/16 1/16 3/16	R-9401 BR-18PF-012 RBT-10-072 SS-50U-567	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-10-25-35-45-65
4.000	1/16 1/16 3/16	R-10277 BR-18PF-012 RBT-10PF-001 SS-50U-567	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Plasma-Moly Low Tension	35
4.000	1/16 1/16 1/8	R-9342 BR-18PF-012 RBT-10-072 SS-50U-1856	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35-45-65
4.000	.043 1/16 3/16	R-10393 BR-18PF-044 RBT-10-072 SS-50U-5029	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35
4.000	.043 1/16 3/16	R-9786 BR-18PF-044 RBT-10-072 SS-50U-567	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35-65
4.000	1.5mm 1.5mm 3.0mm	R-10603 BR-18PF-168 RBT-10-209 SS-50U-3687	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-25-35-45-65
4.000	1.5mm 1.5mm 3.0mm	R-10701 BT-18PF THG-10 SS-99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-45-65
4.000	1.5mm 1.5mm 4.0mm	R-10472 BR-18PF-151 RBT-10-209 SS-50U-5066	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35-45
4.000	1.5mm 1.5mm 4.0mm	R-10470 BR-18PF-151 RBT-10-209 SS-50U-5067	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5
4.040	1/16 1/16 3/16	R-9357 BR-18PF-014 RBT-10-085 SS-50U-588	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35
4.050	5/64 5/64 3/16	R-9219 BR-18PF-016 RBT-10-032 SS-50U-413	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35
4.050	5/64 3/32 3/16	R-9220 BR-18PF-016 RBT-10-016 SS-50U-413	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35
4.050	1/16 1/16 3/16	R-9281 BR-18PF-015 RBT-10-081 SS-50U-565	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35
4.094	5/64 5/64 3/16	R-9210 BR-18PF-020 RBT-10-023 SS-50U-562	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35-65
4.120	5/64 5/64 3/16	R-9228 BR-18PF-040 RBT-10-037 SS-50U-649	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35
4.120	1/16 1/16 1/8	R-9255 BR-18PF-041 RBT-10-097 SS-50U-1864	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
Plasma-Mo	ly File	Fit Ring Set	s - cont	'd.		
4.125	5/64 5/64 3/16	R-5879 BR-18PF-022 RBT-10-050 SS-50U-462	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.125	1/16 1/16 3/16	R-10248 BR-18PF-021 RBT-10-096 SS-50U-462	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-25-35-45-65
4.125	1/16 1/16 3/16	R-9346 BR-18PF-021 RBT-10-096 SS-50U-563	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-25-35-45-65
4.125	1/16 1/16 3/16	R-10279 BR-18PF-021 RBT-10PF-002 SS-50U-563	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Plasma-Moly Low Tension	5
4.125	1/16 1/16 1/8	R-10202 BR-18PF-021 RBT-10-096 SS-50U-2007	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35-45
4.125	1/16 1/16 1/8	R-10206 BR-18PF-021 RBT-10-096 SS-50U-5043	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35
4.125	.043 1/16 3/16	R-9787 BR-18PF-045 RBT-10-096 SS-50U-563	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35-65
4.125	1.5mm 1.5mm 3.0mm	R-10604 BR-18PF-187 RBT-10-283 SS-50U-3771	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-45-65
4.125	1.5mm 1.5mm 3.0mm	R-10702 BT-18PF THG-10 SS-99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-45-65
4.130	1/16 1/16 3/16	R-9280 BR-18PF-023 RBT-10-084 SS-50U-580	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35
4.130	1/16 1/16 1/8	R-9345 BR-18PF-023 RBT-10-084 SS-50U-1867	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35
4.151	1/16 1/16 3/16	R-9548 BR-18PF-025 RBT-10-086 SS-50U-5010	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	65
4.165	1/16 1/16 3/16	R-9349 BR-18PF-026 RBT-10-087 SS-50U-583	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35
4.233	1/16 1/16 3/16	R-9767 BR-18PF-027 RBT-10-088 SS-50U-597	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35
4.250	5/64 5/64 3/16	R-9590 BR-18PF-030 RBT-10-024 SS-50U-619	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.250	1/16 1/16 3/16	R-9745 BR-18PF-029 RBT-10-075 SS-50U-619	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35-65



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
Plasma-Mo	ly File I	Fit Ring Sets	- cont	'd.		
4.250	1/16 1/16 3/16	R-9344 BR-18PF-029 RBT-10-075 SS-50U-559	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35-65
4.250	.043 1/16 3/16	R-9788 BR-18PF-046 RBT-10-075 SS-50U-559	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	35-65
4.250	1.5mm 1.5mm 3.0mm	R-10703 BT18PF THG10 SS99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.313	5/64 5/64 3/16	R-5883 BR-18PF-031 RBT-10-036 SS-50U-623	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35
4.320	5/64 5/64 3/16	R-9224 BR-18PF-033 RBT-10-004 SS-50U-424	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	35-65
4.320	1/16 1/16 3/16	R-9798 BR-18PF-032 RBT-10-076 SS-50U-424	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.320	1/16 1/16 3/16	R-9278 BR-18PF-032 RBT-10-076 SS-50U-579	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35-65
4.320	1.5mm 1.5mm 3.0mm	R-10704 BT18PF THG10 SS99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.360	1/16 1/16 3/16	R-10601 BR-18PF-034 RBT-10-089 SS-50U-639	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.360	1/16 1/16 3/16	R-9374 BR-18PF-034 RBT-10-089 SS-50U-589	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35
4.360	1.5mm 1.5mm 3.0mm	R-10705 BT18PF THG10 SS99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65
4.375	1/16 1/16 3/16	R-9799 BR-18PF-035 RBT-10-077 SS-50U-705	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5
4.375	1/16 1/16 3/16	R-9406 BR-18PF-035 RBT-10-077 SS-50U-576	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5
4.375	.043 1/16 3/16	R-9789 BR-18PF-047 RBT-10-077 SS-50U-576	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5
4.440	1/16 1/16 3/16	R-10133 BR-18PF-069 RBT-10-107 SS-50U-632	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35
4.440	1/16 1/16 3/16	R-9332 BR-18PF-069 RBT-10-107 SS-50U-577	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes				
Plasma-Mo	Plasma-Moly File Fit Ring Sets - cont'd.									
4.466	2.0mm 1.5mm 4.0mm	R-10575 BR-18PF-172 RBT-10PF-026 SS-50U-2499	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Plasma-Moly Standard Tension	5				
4.500	1/16 1/16 3/16	R-10451 BR-18PF-084 RBT-10-180 SS-50U-787	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35				
4.500	1/16 1/16 3/16	R-10317 BR-18PF-084 RBT-10-180 SS-50U-1626	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35				
4.500	.043 1/16 3/16	R-10452 BR-18PF-107 RBT-10-180 SS-50U-787	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5				
4.500	.043 1/16 3/16	R-10316 BR-18PF-107 RBT-10-180 SS-50U-1626	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-35				
4.500	1.5mm 1.5mm 3.0mm	R-10706 BT18PF THG10 SS99U	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-35-65				
4.563	1/16 1/16 3/16	R-10441 BR-18PF-095 RBT-10-181 SS-50U-2703	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5				
4.563	1/16 1/16 3/16	R-10319 BR-18PF-095 RBT-10-181 SS-50U-1627	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5				
4.563	.043 1/16 3/16	R-10450 BR-18PF-096 RBT-10-181 SS-50U-2703	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5-45				
4.563	.043 1/16 3/16	R-10318 BR-18PF-096 RBT-10-181 SS-50U-1627	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Low Tension	5-45				
4.625	1/16 1/16 3/16	R-10433 BR-18PF-140 RBT-10-182 SS-50U-1667	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5				
4.625	.047 1/16 3/16	R-10339 BR-18PF-097 RBT-10-182 SS-50U-1667	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Plasma-Moly Standard Tension	5				
4.675	1/16 1/16 3/16	BR-18PF-134 RBT-10-194 SS-50U-1680	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension					
4.675	.043 1/16 3/16	BR-18PF-174 RBT-10-194 SS-50U-1680	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension					
4.750	.047 1/16 3/16	BR-18PF-175 RBT-10-241 SS-50U-2754	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension					
4.800	.047 1/16 3/16	BR-18PF-176 RBT-10-243 SS-50U-2755	8 Cyl.	Top Ring Second Ring Oil Ring	File Fit Standard Tension					



Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes
Chrome Fil	e Fit Ri	na Sets		1		•
				uide e eurofe en thet is veriet	ant to always in many. The base	metavial and design are the same as used in
SPEED-PRO Plas detonation. Being	sma Moly rir harder and	ig sets, only the face less porous than a n	coating is	changed. Being chrome, the resist changed. Being chrome, the second seco	he face coating will not flake off used life in engines that are ope	, even when exposed to high vibration and rated in a dusty or dirty environment.
Recommended for	r use when	running on dirt tracks	and for of	froad racing.	.	
4.000	4/40	R-9772	8 Cyl.	Tax Dian	File Fit	35
	1/16 1/16	BR-180-016 BBT-10-072		I OP KING Second Bing	Chrome	
	3/16	SS-50U-5029		Oil Ring	Standard Tension	
Pro-Series	Plasma	-Moly File Fi	t Ring	Sets		
Pro-Series ring se Pro Series sets ind SS50U, which incl creating a vacuum	ts are desig corporate re ludes a wire n in the cran	ned for serious racin educed radial wall thic latch mechanism to kcase is highly recon	g, with sev kness ring simplify ins nmended.	eral features that maximize is for lower tension and en stallation. This ring combina	e horsepower potential. These ri nanced sealing. They also use a ation gives dependable sealing	ngs are not recommended for street use! Most a very low tension, thin profile version of the and allows maximum power production. A system
4.000		R-20107	8 Cyl.		File Fit	35-45-65
	1/16	BR-18PF-012		Top Ring	Plasma-Moly, Std. Wall	
	1/16 3.0mm	RBT-10-072 SS-5011-3569		Second Ring Oil Ring	Sta. Wall	
4 000	0.011111	B-20101	8 Cyl		File Fit	5
4.000	.043	BR-18PF-169	0 Oyi.	Top Ring	Plasma-Moly, Std. Wall	5
	.043	RBT-10-231		Second Ring	Std. Wall	
	3/16	SS-50U-2725		Oil Ring	Light Tension	
4.000		R-20100	8 Cyl.		File Fit	5-35-45-65-125-135
	.043	BR-18PF-169		Lop King	Plasma-Moly	
	3.0mm	SS-50U-3569		Oil Rina	Light Tension	
4,000	0.0	B-20102	8 Cvl	0	File Fit	45-130
4.000	1.5mm	BR-18PF-168	0 Oyı.	Top Ring	Plasma-Moly	10 100
	1.5mm	RBT-10-230		Second Ring	,	
	3.0mm	SS-50U-3569		Oil Ring	Light Tension	
4.125		R-20108	8 Cyl.		File Fit	5
	1/16	BR-18PF-021		Lop King	Plasma-Moly, Std. Wall	
	3.0mm	SS-50U-3619		Oil Rina	Light Tension	
4,125		B-20109	8 Cvl	y	File Fit	5-35-45
	.043	BR-18PF-186	o oyn	Top Ring	Plasma-Moly	
	.043	RBT-10-282		Second Ring		
	3.0mm	SS-50U-3619		Oil Ring	Light Tension	
4.250	040	R-20112	8 Cyl.	Top Ding	File Fit	5
	.043	BRT-10-306		Second Bing	riasilia-wory	
	3.0mm	SS-50U-3731		Oil Ring	Light Tension	
4.500		R-20113	8 Cyl.	-	File Fit	5-35
	.043	BR-18PF-197		Top Ring		
	.043	HBT-10-317		Second Ring	Standard Tanaian	
4 600	3.UMM	55-99U-2023	0.0.1			
4.000	043	RR-18PF-170	o cyl.	Top Bing	rile rit Plasma-Moly	5
	.043	RBT-10-233		Second Ring	i laoma mory	
	3/16	SS-50U-2731		Oil Ring	Low Tension	
4.600		R-20104	8 Cyl.		File Fit	5
	.043	BR-18PF-170		Top Ring	Plasma-Moly	
	.043 3.0mm	HBT-10-233		Second Ring	Low Tension	
4.675	3.0000	B 20106	0.0.1			E 10 00
4.0/5	043	RR-18PF-174	o cyl.	Top Bing	rile rit Plasma-Moly	5-10-30
	.043	RBT-10-237		Second Ring	i laona mory	
	3.0mm	SS-50U-3608		Oil Ring	Low Tension	

Bore Dia.	Width	Ring Set P/N	Cyl.	Position	Specifications	Available Oversizes	
031 Dykes	8	•		•	·	·	
Pressure Back (r sealing. Low R.F n high R.P.M. lo ings feature a P	eferred to as P.M. sealing ng stroke en lasma Moly	s .031 Dykes) top rii is sacrificed for imp igines. Dykes ring's coating, which provi	ngs feature roved sealir radial thick des long life	a 1/16" wide face and ng in the higher R.P.M ness is .170" regardle and superior bonding	a .031" step. These rings ar I. ranges. The reduced weigh ss of diameter. Dykes rings g of the moly to the base mate	e dependant upon gas loading to provide satisfactor t of Pressure Back rings make them especially dea are not recommended for street engines. Pressure srial.	ory sirable e Back
4.000		R-9941	8 Cyl.		.031 Dykes	65	
	1/16	PB-18PF-003		Top Ring	Plasma-Moly		
	1/16	RBT-10-072		Second Ring			
	3/16	SS-50U-567		Oil Ring	Low Tension		
4.125		R-9681	8 Cyl.		.031 Dykes	35	
	1/16	PB-18PF-006		Top Ring	Plasma-Moly		
	1/16	RBT-10-096		Second Ring			
	3/16	SS-50U-563		Oil Ring	Low Tension		
4.250		R-10177	8 Cyl.		.031 Dykes	65	
	1/16	PB-18PF-001		Top Ring	Plasma-Moly		
	1/16	RBT-10-075		Second Ring			
	3/16	SS-50U-559		Oil Ring	Low Tension		
4.375		R-10306	8 Cyl.		.031 Dykes	5	
	1/16	PB-18PF-013	•	Top Ring	Plasma-Moly		
	1/16	RBT-10-077		Second Ring			
	3/16	SS-50U-576		Oil Ring	Low Tension		



Open Stock - Individual Piston Rings

.017 Dykes	.017 Dykes HellFire Rings For Supercharged Engines								
The .017 Pressure Back rings listed below are available as open stock rings only. Since they are not packaged in a ring set, second and oil control rings must be ordered separately from the open stock listings.									
Bore Dia.	Width	Open Stock P/N							
4.125	.017 Dykes	PB-19-100	-		5-65				
4.250	.017 Dykes	PB-19-101			5-65				
4.375	.017 Dykes	PB-19-102			5				
4.440	.017 Dykes	PB-19-103			5-30				
4.500	.017 Dykes	PB-19-105	eme Melu File Fit Dine		5				
.017 Press	ure Baci	k (Dykes) Pla	isma-moly File Fit Ring	S					
The .017 Pressur separately from t	e Back rings he open stock	listed below are ava k listings found throu	lable as open stock rings only. Since a ahout this section.	they are not packaged in a ring	set, second and	d oil control rings must be ordered			
Bore Dia.	Width	Open Stock P/N	Face Material			Available Oversizes			
4.000	.017 Dykes	PB-18PF-015	Plasma-Moly		35-65				
4.125	.017 Dykes	PB-18PF-019	Plasma-Moly		5-65				
4.250	.017 Dykes	B-18PF-014	Plasma-Moly		5-65				
4.375	.017 Dykes	PB-18PF-028	Plasma-Moly		5				
4.440	.017 Dykes	PB-18PF-016	Plasma-Moly		10-35				
.031 Press	ure Bacl	k (Dykes) Pla	isma-Moly File Fit Rings	S					
The .031 Pressur	e Back rings	listed below are ava	ilable as open stock rings only. Since	they are not packaged in a ring	set, second and	d oil control rings must be ordered			
Bore Dia	Width	Open Stock P/N	Face Material			Available Oversizes			
3 736	031 Dukes	PB-18PF-027	Plasma-Moly		45-65	Available VV6131263			
3.875	.031 Dykes	PB-18PF-002	Plasma-Molv		35-65				
4.320	.031 Dvkes	PB-18PF-007	Plasma-Moly		5-35-65				
4.400	.031 Dykes	PB-18PF-026	Plasma-Moly		5-35				
4.563	.031 Dykes	PB-18PF-024	Plasma-Moly		45				
.043 HellFire Top Rings									
The .043 rings listed below are available individually as open stock. Since they are not packaged in a ring set, second and oil control rings must be ordered separately.									
Bore Dia.	Width	Open Stock P/N	Face Material	Radial Wall		Available Oversizes			
4.000	.043	BR-19-100		.187	5-35-65-100				
4.125	.043	BR-19-101		.192	5-35-45-65				
4.500	.043	BR-19-109		.210	5				
4.500	.043	BR-19-119		.1/5	5-35-65				
4.003	.043	DR-19-110 BD-10-120		.210	D 5 25 65				
4.505	.043	BR-19-102		175	5-15-30-50				
4.600	.043	BR-19-103		.210	5-30-50				
4.675	.043	BR-19-104		.175	5-30				
4.675	.043	BR-19-105		.210	5				
4.675	.043	BR-19PF-200	Plasma-Moly	.175	5-10-30				
.043 Wide	Plasma-	Moly File Fit	Top Rings						
The .043 rings lis	ted below are	e available individual	ly as open stock rings only. Since they	v are not packaged in a ring set	, second and oil	control rings must be ordered			
separately from t	he open stock	k listings found throu	ghout this section.		-	•			
Bore Dia.	Width	Open Stock P/N	Face Material			Available Oversizes			
4.063	.043	BR-18PF-083	Plasma-Moly		25				
4.100	.043	BR-18PF-050	Plasma-Moly		Std Only				
4.440	.043	BR-18PF-108	riasma-Moly		5				
.047 HellFi	re Top R	Rings							
The.047 rings list	ed below are	available individual	y as open stock. Since they are not pa	ickaged in a ring set, second ar	nd oil control ring	gs must be ordered separately.			
Bore Dia.	Width	Open Stock P/N	Face Material	Radial Wall		Available Oversizes			
4.750	.047	BR-19-106		.210	5				
4.750	.047	BR-19PF-201	Plasma-Moly	.210	5				
4.800	.047	BR-19-107	Plaama Maly	.210	5				
4.000	.047			.210	J				
1.2mm Pla	sma-Mo	IY FILE FIT TO	p Hings						
The 1.2mm wide separately from t	rings listed be	elow are available in k listings found throu	dividually as open stock only. Since the ahout this section.	iey are not packaged in a ring s	et, second and	oil control rings must be ordered			
Bore Dia.	Width	Open Stock P/N	Face Material	Radial Wall		Available Oversizes			
4 000	1.0mm	BB-18DF-191	Plasma-Moly	155	5-15-25-25-45	5-55-65-85-95-105-120			
4.125	1.2mm	BR-18PF-182	Plasma-Molv	.155	Std-5-15-25-3	5-45-65			


1/16" HellFire Top Rings

The 1/16" rings listed below are available individually as open stock. If they are not packaged in a ring set, second and oil control rings must be ordered separately.										
Bore Dia.	Width	Open Stock P/N	Face Material	Radial Wall	Available Oversizes					
4.000	1/16	BR-19-111		.187	5-35-45-65					
4.125	1/16	BR-19-112		.192	5-35-45-65					
4.250	1/16	BR-19-113		.198	35-65					
4.320	1/16	BR-19-114		.201	35					
4.360	1/16	BR-19-115		.203	35					
4.375	1/16	BR-19-116		.204	5					
4.440	1/16	BR-19-117		.207	5					
4.500	1/16	BR-19-118		.210	5-35-65					
4,600	1/16	BR-19-108		.210	5-30					

Plasma Moly Second Rings

The plain iron, Plasma Moly, reverse twist rings listed below provide all the benefits of the race-proven SPEED-PRO second ring with the added advantages of improved ring life and scuff resistance. These rings will result in longer life for high horsepower, high heat drag race engines and oval track engines used in long distance events. Unlike competitive moly second rings, the SPEED-PRO Plasma Moly second ring is made of regular ring iron providing low cylinder wall loading and reduced internal engine friction. Additionally, a reverse twist design is employed to further improve oil control. Top and oil rings must be ordered separately.

Bore Dia.	Width	Open Stock P/N		Available Oversizes
4.125	1/16	RBT-10PF-002		5-35
4.500	1/16	RBT-10PF-015		5
4.675	.043	RBT-10PF-028		5-10-30

Pressure Back (Dykes) Ring Groove Spacers

Ring Groove Spacers permit the installation of .031 Dykes rings into stock 5/64" ring grooves. Since piston modifications are not required for this combination, it is legal for use in NHRA stock eliminator classes.

Bore Dia.	Width	Open Stock P/N	Spacer Dimensions
3.736 - 3.796	5/64	PBS-13-015	Std Only
4.000 - 4.060	5/64	PBS-13-002	Std Only
4.250 - 4.310	5/64	PBS-13-005	Std Only

Special Light Tension SS50U Oil Ring Assemblies

Low tension piston ring sets have evolved from the racer's quest to reduce internal engine friction. This is desirable as a reduction in the force required to rotate the engine assembly which means that more power will be available. Oil ring assemblies are an important member of the low tension ring set. The SS-50U oil rings shown in the preceding ring set listings are identified as being either Standard (19-22 lbs.) or Low (15-18 lbs.) tagential tension. These oil ring assemblies are available individually (referred to as Open Stock) as well as in complete engine sets. The use of oil ring assemblies with less than 15lbs. tangential tension would normally result in excessive oil passing the rings and entering the combustion chamber. However the development of vacuum oil control systems (which create a vacuum in the crankcase to assist the oil ring in controlling oil) have allowed the use of oil ring tensions below 15lbs. Listed below are special oil ring assemblies that produce 5-10 lbs. tangential tension for the ultimate in reduced ring drag. These assemblies are not intended for street use and should be used only with an effective vacuum oil control system.

Bore Dia.	Width	Open Stock P/N	Available Oversizes
3.875	3/16	SS-50U-5019	60
4.000	3/16	SS-50U-5020	Std-20-30-60
4.040	3/16	SS-50U-5023	Std Only
4.125	3/16	SS-50U-5021	Std-30
4.250	3/16	SS-50U-5022	30-60

Special SS-99U Series Oil Rings

Bore Dia.	Width	Open Stock P/N	Available Oversizes						
4.000	3.0mm	SS-99U-2000	Std-20-30-40-60-80						
4.125	3.0mm	SS-99U-2006	Std-20-30-40-60						
4.600	3.0mm	SS-99U-2011	Std-25-45						
4.675	3.0mm	SS-99U-2014	Std-10-25						
Special Top Fuel Oil Rings									

Bore Dia.	Width	Open Stock P/N		Available Oversizes
4.187 4.250	3/16 3/16	SS-50U-1695 SS-50U-1624		Std Only Std-30



Thin Wall, Light Tension (Back Cut) Second Rings

Field testing of drag racing engines has shown that a further reduction of internal engine friction can be achieved when using second compression rings with a reduced radial thickness. The lighter tension second rings listed below have a radial wall thickness (measured from front to back of the ring) that is approximately -.030" less than conventional SPEED-PRO second rings. These thin wall (back-cut) second rings result in less cylinder wall loading and reduced internal engine friction, yet providing adequate oil control assistance. Not intended for street use and should be used only in conjunction with an effective vacuum oil control system. Available only as individual rings (Open Stock) in the sizes shown below. Top and oil control rings must be ordered separately from the open stock rings found throughout this section.

Bore Dia.	Width	Open Stock P/N		Available Oversizes
3.875	1/16	RBT-10-128		35
4.000	1/16	RBT-10-131		5-25-65
4.000	5/64	RBT-10-132		5-35-65
4.125	5/64	RBT-10-143		5-35
4.125	1/16	RBT-10-144		5-35-65
4.250	1/16	RBT-10-149		5-35-65
4.250	5/64	RBT-10-202		5-35-65



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-5879	4.125	8 Cyl.			File Fit	5-35-65
BR-18PF-022		-	Top Ring	5/64	Plasma-Moly	
RBT-10-050			Second Ring	5/64	Oton double Tonoion	
55-500-462	4.040		Oli Ring	3/10	Standard Tension	05
R-5883	4.313	8 Cyl.	Top Ping	5/6/	File Fit Blasma Moly	35
BBT-10-036			Second Bing	5/64	Flashla-Woly	
SS-50U-623			Oil Ring	3/16	Standard Tension	
R-6375	4.125	8 Cyl.	`		Standard Fit	30-40
BT-10-059			Top Ring	1/16	Standard	
RBT-10-084			Second Ring	1/16	o	
SS-50U-640			Oil Ring	3/16	Standard Tension	
R-6902	4.000	8 Cyl.	Top Bing	1/16	Standard Fit	Std-30-60
BT-10-557 BBT-10-102			Second Bing	1/16	Sidiludiu	
SS-50U-5029			Oil Ring	3/16	Standard Tension	
R-8375	4.125	8 Cyl.			Standard Fit	30-40-60
BRI-10Y-093			Top Ring	1/16	Moly	
RBT-10-084			Second Ring	1/16	Oten dend Ten dien	
55-500-640			Oli Ring	3/16	Standard Tension	
R-8902	4.000	8 Cyl.	Top Ping	1/16	Standard Fit	Std-30-40-60
BBT-10-102			Second Bing	1/16	WOIY	
SS-50U-5029			Oil Ring	3/16	Standard Tension	
R-9210	4.094	8 Cyl.			File Fit	35-65
BR-18PF-020			Top Ring	5/64	Plasma-Moly	
RBT-10-023			Second Ring	5/64	Lou Touriou	
55-500-562	0.075		Oli Ring	3/10		05
R-9211 BB-18PE-007	3.875	8 Cyl.	Top Bing	1/16	File Fit Plasma-Moly	65
RBT-10-079			Second Ring	1/16	T laona mory	
SS-50U-1853			Oil Ring	1/8	Low Tension	
R-9219	4.050	8 Cyl.			File Fit	35
BR-18PF-016			Top Ring	5/64	Plasma-Moly	
RBT-10-032			Second Ring	5/64	Ctandard Tanaian	
55-500-413	4.050	0.0.1		3/10		05
R-9220 BB-18PE-016	4.050	8 Cyl.	Top Bing	5/64	File Fit Plasma-Moly	35
RBT-10-016			Second Ring	3/32	T laona mory	
SS-50U-413			Oil Ring	3/16	Standard Tension	
R-9224	4.320	8 Cyl.			File Fit	35-65
BR-18PF-033			Top Ring	5/64	Plasma-Moly	
RBI-10-004			Second Ring	5/64 2/16	Standard Tonsion	
D_0228	/ 120	8 Cyl	On Thing	5/10		25
BR-18PF-040	4.120	0 Cyl.	Top Ring	5/64	Plasma-Molv	55
RBT-10-037			Second Ring	5/64	···· · · · ,	
SS-50U-649			Oil Ring	3/16	Standard Tension	
R-9255	4.120	8 Cyl.			File Fit	35
BR-18PF-041			Lop King Second Bing	1/16	Plasma-Moly	
SS-50U-1864			Oil Ring	1/8	Low Tension	
B-9278	4.320	8 Cvl	g	., •	File Fit	5-35-65
BR-18PF-032		с сул.	Top Ring	1/16	Plasma-Moly	
RBT-10-076			Second Ring	1/16		
SS-50U-579			Oil Ring	3/16	Low Tension	
R-9280	4.130	8 Cyl.	Top Ding	1/10	File Fit	5-35
BBT-10-084			Second Ring	1/16	r iasina-ivioly	
SS-50U-580			Oil Ring	3/16	Low Tension	
R-9281	4.050	8 Cyl.			File Fit	35
BR-18PF-015			Top Ring	1/16	Plasma-Moly	
RBT-10-081			Second Ring	1/16	Low Tonsion	
33-500-505				3/10	LOW TENSION	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-9332	4.440	8 Cyl.			File Fit	5
BR-18PF-069			Top Ring	1/16	Plasma-Moly	
SS-50U-577			Oil Ring	3/16	Low Tension	
R-9342	4.000	8 Cyl.			File Fit	35-45-65
BR-18PF-012			Top Ring	1/16	Plasma-Moly	
SS-50U-1856			Oil Ring	1/8	Standard Tension	
R-9343	4.000	8 Cyl.	Ŭ		File Fit	5-25-35-45-65
BR-18PF-013		-	Top Ring	5/64	Plasma-Moly	
SS-50U-5029			Oil Ring	5/64 3/16	Standard Tension	
R-9344	4.250	8 Cyl.	Ū		File Fit	5-35-65
BR-18PF-029			Top Ring	1/16	Plasma-Moly	
SS-50U-559			Oil Ring	3/16	Low Tension	
R-9345	4.130	8 Cyl.	- 0		File Fit	35
BR-18PF-023			Top Ring	1/16	Plasma-Moly	
RBT-10-084 SS-50U-1867			Second Ring Oil Ring	1/16 1/8	Low Tension	
B-9346	4.125	8 Cvl.	On Fining	1/0	File Fit	5-25-35-45-65
BR-18PF-021			Top Ring	1/16	Plasma-Moly	
RBT-10-096			Second Ring	1/16 3/16	Low Tension	
B-9349	4.165	8 Cvl	On Ming	5/10	File Fit	5-35
BR-18PF-026	4.100	o oyı.	Top Ring	1/16	Plasma-Moly	
RBT-10-087			Second Ring	1/16	Low Tonsion	
55-500-563 P-0257	1 040	8 Cyl		3/10	Eilo Eit	25
BR-18PF-014	4.040	o Cyl.	Top Ring	1/16	Plasma-Moly	35
RBT-10-085			Second Ring	1/16	Lew Tension	
55-500-588 P-0374	1 260	8 Cvl		3/16	Low Tension	5.25
BR-18PF-034	4.300	o Cyl.	Top Ring	1/16	Plasma-Moly	3-33
RBT-10-089			Second Ring	1/16	Lew Tension	
55-500-589 P-0401	4 000	8 Cvl		3/16	Low Tension	5 10 25 25 45 65
BR-18PF-012	4.000	o Cyl.	Top Ring	1/16	Plasma-Moly	5-10-25-55-45-05
RBT-10-072			Second Ring	1/16	Leve Transfer	
SS-500-567	4 975	8 Cul	Oli Ring	3/16	Low Tension	5
BR-18PF-035	4.375	o Cyl.	Top Ring	1/16	Plasma-Moly	5
RBT-10-077			Second Ring	1/16		
SS-50U-576	4 151	0.04	Oil Ring	3/16	Low Tension	CE.
BR-18PF-025	4.101	o Cyl.	Top Ring	1/16	Plasma-Moly	60
RBT-10-086			Second Ring	1/16	· - ·	
SS-50U-5010	4.050	0.0.1	Oil Ring	3/16	Low Tension	F 05 05
BR-18PF-030	4.250	8 Cyl.	Top Ring	5/64	Plasma-Molv	5-35-55
RBT-10-024			Second Ring	5/64	, , ,	
SS-50U-619	0.575	10-1	Oil Ring	3/16	Standard Tension	-
BR-18PF-002	3.575	4 Cyl.	Top Ring	1/16	File Fit Plasma-Molv	5
RBT-10-073			Second Ring	1/16	· · · · · · · · · · · · · · · · · · ·	
SS-50U-1848	0.077		Oil Ring	1/8	Low Tension	05.05
R-9621 BB-18PF-007	3.875	8 Cyl.	Top Bing	1/16	File Fit Plasma-Moly	35-65
RBT-10-079			Second Ring	1/16	- inclusion in org	
SS-50U-573			Oil Ring	3/16	Low Tension	
R-9637 BB-18PE-003	3.625	8 Cyl.	Top Bing	1/16	File Fit Plasma-Moly	5
RBT-10-061			Second Ring	1/16	r lasma wory	
SS-50U-5006			Oil Ring	3/16	Low Tension	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-9681	4.125	8 Cyl.			.031 Dykes	35
PB-18PF-006			Top Ring	1/16	Plasma-Moly	
RBT-10-096			Second Ring	1/16	Low Tonsion	
55-500-563	4.050		Oli Ring	3/10		05.05
R-9/45	4.250	8 Cyl.	Top Ding	1/16	File Fit Plasma Moly	35-65
BBT-10-075			Second Bing	1/16	Flashla-Woly	
SS-50U-619			Oil Ring	3/16	Standard Tension	
R-9767	4.233	8 Cvl.			File Fit	35
BR-18PF-027		,	Top Ring	1/16	Plasma-Moly	
RBT-10-088			Second Ring	1/16		
SS-50U-597			Oil Ring	3/16	Low Tension	
R-9771	4.000	8 Cyl.	Tee Dies	1/10	File Fit	5-25-35-45-65
BR-18PF-012 BBT-10-072			Top Ring Second Ring	1/10	Plasma-woly	
SS-50U-5029			Oil Ring	3/16	Standard Tension	
B-9772	4.000	8 Cvl.	- 5		File Fit	35
BR-18U-016		0 0 y	Top Ring	1/16	Chrome	
RBT-10-072			Second Ring	1/16		
SS-50U-5029			Oil Ring	3/16	Standard Tension	
R-9786	4.000	8 Cyl.			File Fit	5-35-65
BR-18PF-044			Top Ring	.043	Plasma-Moly	
SS-5011-567			Oil Ring	3/16	Low Tension	
D-0797	4 125	8 Cyl	On Filling	0/10	Eilo Eit	5 25 65
BB-18PF-045	4.125	o Cyl.	Top Bing	.043	Plasma-Molv	5-35-65
RBT-10-096			Second Ring	1/16	i laoina mory	
SS-50U-563			Oil Ring	3/16	Low Tension	
R-9788	4.250	8 Cyl.			File Fit	35-65
BR-18PF-046			Top Ring	.043	Plasma-Moly	
RB1-10-075			Second Ring	1/16	Low Toncion	
D 0790	4 975	8 Cul	On Thing	0/10	Ello Eit	E
BB-18PF-047	4.375	o Cyl.	Top Bing	.043	Plasma-Molv	5
RBT-10-077			Second Ring	1/16	r laonia mory	
SS-50U-576			Oil Ring	3/16	Low Tension	
R-9798	4.320	8 Cyl.			File Fit	5-35-65
BR-18PF-032			Top Ring	1/16	Plasma-Moly	
RB1-10-076 SS-5011-424			Second King Oil Bing	1/16 3/16	Standard Tonsion	
D 0700	4 975	8 Cul	On Thing	0/10		E
BB-18PF-035	4.375	o Cyl.	Top Bing	1/16	Plasma-Molv	5
RBT-10-077			Second Ring	1/16	i laoina mory	
SS-50U-705			Oil Ring	3/16	Standard Tension	
R-9840	3.500	4 Cyl.			File Fit	35
BR-18PF-054			Top Ring	1/16	Plasma-Moly	
SS-5011-707			Oil Bing	3/16	Low Tension	
B-9902	4 000	8 Cvl	On Filling	0/10	Standard Gan	Std-20-30-40-60
BR-18PF-062	4.000	0 Oyi.	Top Ring	1/16	Plasma-Molv	
RBT-10-102			Second Ring	1/16	······································	
SS-50U-5029			Oil Ring	3/16	Standard Tension	
R-9903	4.000	8 Cyl.			Standard Gap	Std-20-30-60
BR-18PF-063			Top Ring	5/64	Plasma-Moly	
SS-5011-5029			Oil Ring	5/04 3/16	Standard Tension	
B-9904	1 250	8 Cvl	Jirring	0/10	Standard Can	Std-20-30-60
BR-18PF-064	7.200	o cyi.	Top Ring	1/16	Plasma-Molv	
RBT-10-103			Second Ring	1/16		
SS-50U-619			Oil Ring	3/16	Standard Tension	
R-9905	4.250	8 Cyl.			Standard Gap	Std-30-60
BR-18PF-065			Top Ring	5/64	Plasma-Moly	
RB1-10-024 SS-5011-619			Secona King Oil Bing	5/64	Standard Tension	
00 000-010			On Thing	0/10		



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-9941	4.000	8 Cyl.			.031 Dykes	65
PB-18PF-003			Top Ring	1/16	Plasma-Moly	
SS-50U-567			Oil Ring	3/16	Low Tension	
R-9967	3.875	8 Cyl.			Standard Gap	60
BR-18PF-060			Top Ring	1/16	Plasma-Moly	
SS-50U-1880			Oil Ring	1/16	Standard Tension	
R-9968	4.000	8 Cyl.	- 0		Standard Gap	30-40-60
BR-18PF-062		-	Top Ring	1/16	Plasma-Moly	
RBT-10-102 SS-50U-1856			Second Ring Oil Ring	1/16 1/8	Standard Tension	
R-9985	3.800	6 Cvl.	on rung	1/0	File Fit	5-15-25-35
BR-18PF-076			Top Ring	1/16	Plasma-Moly	
RBT-10-109			Second Ring	1/16	Low Tonsion	
B-10133	4 440	8 Cvl		3/10	File Fit	5-35
BR-18PF-069	4.440	0 Oyi.	Top Ring	1/16	Plasma-Moly	5.00
RBT-10-107			Second Ring	1/16	0	
SS-500-632	4.000	0.0.1	Oil Ring	3/16	Standard Tension	05
BR-18PF-012	4.000	8 Cyl.	Top Ring	1/16	Plasma-Molv	35
RBT-10PF-001			Second Ring	1/16	Plasma-Moly	
SS-50U-5029			Oil Ring	3/16	Standard Tension	
R-10177	4.250	8 Cyl.	Top Ping	1/16	.031 Dykes	65
RBT-10-075			Second Ring	1/16	Flashla-woly	
SS-50U-559			Oil Ring	3/16	Low Tension	
R-10202	4.125	8 Cyl.	T D'	1/10	File Fit	35-45
BR-18PF-021 BBT-10-096			Lop King Second Ring	1/16 1/16	Plasma-Moly	
SS-50U-2007			Oil Ring	1/8	Standard Tension	
R-10206	4.125	8 Cyl.			File Fit	35
BR-18PF-021			Top Ring Second Ring	1/16	Plasma-Moly	
SS-50U-5043			Oil Ring	1/8	Low Tension	
R-10230	3.188	4 Cyl.			File Fit	5
BR-18PF-001			Top Ring	1/16	Plasma-Moly	
SS-50U-5046			Oil Ring	4.0mm	Low Tension	
R-10248	4.125	8 Cyl.	0		File Fit	5-25-35-45-65
BR-18PF-021		-	Top Ring	1/16	Plasma-Moly	
RBT-10-096 SS-50U-462			Second Ring Oil Ring	1/16 3/16	Standard Tension	
R-10277	4.000	8 Cyl.	0g	0,10	File Fit	35
BR-18PF-012			Top Ring	1/16	Plasma-Moly	
RBT-10PF-001			Second Ring	1/16 3/16	Plasma-Moly	
B-10279	4,125	8 Cvl.	On Thing	0/10	File Fit	5
BR-18PF-021		0 0 y	Top Ring	1/16	Plasma-Moly	5
RBT-10PF-002			Second Ring	1/16	Plasma-Moly	
B-10204	2 726	8 Cyl		3/10	Ello Eit	25
BR-18PF-110	0.100	o oyı.	Top Ring	1/16	Plasma-Moly	
RBT-10-178			Second Ring	1/16	Oten devel Transfer	
55-500-757 B 10205	2 706	0.04		3/16	Standard Tension	25
BR-18PF-110	3.730	o Cyl.	Top Ring	1/16	rile rit Plasma-Molv	30
RBT-10-178			Second Ring	1/16	·····,	
SS-50U-5049			Oil Ring	3/16	Low Tension	
R-10306 PB-18PE-013	4.375	8 Cyl.	Top Bing	1/16	.031 Dykes Plasma-Moly	5
RBT-10-077			Second Ring	1/16	r laoma mory	
SS-50U-576			Oil Ring	3/16	Low Tension	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-10316	4.500	8 Cyl.			File Fit	5-35
BR-18PF-107			Top Ring	.043	Plasma-Moly	
SS-50U-1626			Oil Ring	3/16	Low Tension	
R-10317	4.500	8 Cyl.			File Fit	5-35
BR-18PF-084		·	Top Ring	1/16	Plasma-Moly	
RBT-10-180			Second Ring	1/16 3/16	Low Tension	
B-10318	4 563	8 Cvl	OILLING	5/10	File Fit	5-45
BR-18PF-096	4.505	o oyı.	Top Ring	.043	Plasma-Moly	3 +3
RBT-10-181			Second Ring	1/16		
SS-50U-1627	4 500		Oil Ring	3/16	Low Tension	-
R-10319 BB-18PF-095	4.563	8 Cyl.	Top Bing	1/16	File Fit Plasma-Molv	5
RBT-10-181			Second Ring	1/16		
SS-50U-1627			Oil Ring	3/16	Low Tension	
R-10339	4.625	8 Cyl.	Ton Ding	047	File Fit	5
RBT-10-182			Second Ring	1/16	Flashla-ivioly	
SS-50U-1667			Oil Ring	3/16	Standard Tension	
R-10374	4.125	8 Cyl.			Standard Gap	30-60
BR-18PF-131			Top Ring	5/64 5/64	Plasma-Moly	
SS-50U-462			Oil Ring	3/16	Standard Tension	
R-10375	4.125	8 Cyl.	Ŭ		Standard Gap	Std-30-40
BR-18PF-132			Top Ring	1/16	Plasma-Moly	
RBT-10-193			Second Ring	1/16 3/16	Standard Tension	
B-10393	4 000	8 Cvl	On Thing	0/10	File Fit	35
BR-18PF-044	4.000	o oyı.	Top Ring	.043	Plasma-Moly	00
RBT-10-072			Second Ring	1/16	0	
SS-500-5029	4.005	0.0.1	Oil Ring	3/16	Standard Tension	
BB-18PF-140	4.625	8 Cyl.	Top Ring	1/16	File Fit Plasma-Molv	5
RBT-10-182			Second Ring	1/16		
SS-50U-1667			Oil Ring	3/16	Standard Tension	
R-10434	3.736	8 Cyl.	Top Ping	5/6/	File Fit	35
RBT-10-203			Second Ring	5/64	T lastila-inioty	
SS-50U-757			Oil Ring	3/16	Standard Tension	
R-10437	3.800	6 Cyl.	Teo Dian	5/04	File Fit	35
BR-18PF-144 BBT-10-204			Top Ring Second Ring	5/64 5/64	Plasma-Moly	
SS-50U-267			Oil Ring	3/16	Standard Tension	
R-10441	4.563	8 Cyl.			File Fit	5
BR-18PF-095			Top Ring Second Ring	1/16	Plasma-Moly	
SS-50U-2703			Oil Ring	3/16	Standard Tension	
R-10450	4.563	8 Cyl.	-		File Fit	5-45
BR-18PF-096			Top Ring	.043	Plasma-Moly	
SS-50U-2703			Oil Ring	3/16	Standard Tension	
R-10451	4.500	8 Cvl.	<u> </u>		File Fit	5-35
BR-18PF-084			Top Ring	1/16	Plasma-Moly	
RBT-10-180			Second Ring	1/16 3/16	Standard Tension	
B-10452	4 500	8 Cvl	On Thing	0/10	File Fit	5
BR-18PF-107	4.000	o oyı.	Top Ring	.043	Plasma-Moly	3
RBT-10-180			Second Ring	1/16	Chandard Taradar	
55-500-787	4 000	0.0.1		3/16	Standard Lension	5
BR-18PF-151	4.000	8 Cyl.	Top Ring	1.5mm	Plasma-Molv	5
RBT-10-209			Second Ring	1.5mm	. identa inorg	
SS-50U-5067			Oil Ring	4.0mm	Low Tension	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-10471 BR-18PF-150 RBT-10-201	4.000	8 Cyl.	Top Ring Second Ring	1.5mm 1.5mm	Standard Gap Plasma-Moly	Std-30-40
SS-50U-5066			Oil Ring	4.0mm	Standard Tension	
R-10472 BR-18PF-151 RBT-10-209 SS-50U-5066	4.000	8 Cyl.	Top Ring Second Ring Oil Ring	1.5mm 1.5mm 4.0mm	File Fit Plasma-Moly Standard Tension	35-45
R-10473	3.736	8 Cyl.	<u> </u>		File Fit	35-65
BR-18PF-143 RBT-10-203 SS-50U-5049		·	Top Ring Second Ring Oil Ring	5/64 5/64 3/16	Plasma-Moly Low Tension	
R-10499	3.800	6 Cyl.			Standard Gap	Std-30
BR-18PF-159 RBT-10-035 SS-50U-267			Top Ring Second Ring Oil Ring	5/64 5/64 3/16	Plasma-Moly Standard Tension	
R-10515	3.780	4 Cyl.	T D'	5/04	Standard Gap	30
BR-18PF-161 RBT-10-098 SS-50U-5026			Top Ring Second Ring Oil Ring	5/64 5/64 3/16	Plasma-Moly Standard Tension	
R-10575	4.466	8 Cyl.	0		File Fit	5
BR-18PF-172			Top Ring	2.0mm	Plasma-Moly Plasma-Moly	
SS-50U-2499			Oil Ring	4.0mm	Standard Tension	
R-10576	3.780	8 Cyl.			File Fit	35
BR-18PF-173 BBT-10-236			Top Ring Second Bing	1/16 1/16	Plasma-Moly	
SS-50U-585			Oil Ring	3/16	Low Tension	
R-10593	4.360	8 Cyl.			Standard Gap	30
BR-18PF-188 BBT-10-289			I op Ring Second Ring	1/16 1/16	Plasma-Moly	
SS-50U-639			Oil Ring	3/16	Standard Tension	
R-10595	4.500	8 Cyl.	Tan Dian	4/40	Standard Gap	Std-60
RBT-10-302			Second Ring	1/16	Plasma-Moly	
SS-50U-787			Oil Ring	3/16	Standard Tension	
R-10596 BE-13PE-025	3.551	8 Cyl.	Top Bing	1 5mm	File Fit Plasma-Moly	.6489-1.14MM
RBT-10-227			Second Ring	1.5mm	T lasina wory	
SS-50U-3923			Oil Ring	3.0mm	Standard Tension	
R-10598 BE-13PE-026	99mm	8 Cyl.	Ton Ring	1.5mm	File Fit Plasma-Moly	.1338MM
RBT-10-303			Second Ring	1.5mm		
SS-50U-3721	75	4.0.1	Oil Ring	3.0mm	Standard Tension	10.04444
RF-18PF-194	/5mm	4 Cyl.	Top Ring	1.0mm	Plasma-Moly	.130410101
RBT-10-309			Second Ring	1.2mm	Ctandard Tanaian	
SS-500-3957	81mm	4 Cyl		2.8mm	Standard Tension	13- 64MM
RF-18PF-195	omm	4 Cyl.	Top Ring	1.0mm	Plasma-Moly	. 130410101
RBT-10-310			Second Ring	1.0mm	Standard Tonsion	
B-10601	4.360	8 Cvl		2.011111	File Fit	5-35-65
BR-18PF-034	1000	o oyn	Top Ring	1/16	Plasma-Moly	
RBT-10-089 SS-50U-639			Second Ring Oil Ring	1/16 3/16	Standard Tension	
R-10603	4.000	8 Cyl.	Ju rung	0,10	File Fit	5-25-35-45-65
BR-18PF-168		,	Top Ring	1.5mm	Plasma-Moly	
KB1-10-209 SS-50U-3687			Second Hing Oil Rina	1.5mm 3.0mm	Standard Tension	
R-10604	4.125	8 Cyl.	3		File Fit	5-45-65
BR-18PF-187			Top Ring	1.5mm	Plasma-Moly	
SS-50U-3771			Oil Ring	3.0mm	Standard Tension	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-10701	4.000	8 Cyl.			File Fit	5-35-45-65
BT-18PF			Top Ring	1.5mm	Plasma-Moly	
THG-10			Second Ring	1.5mm		
SS-99U			Oil Ring	3.0mm	Standard Tension	
R-10702	4.125	8 Cyl.			File Fit	5-35-45-65
BT-18PF			Top Ring	1.5mm	Plasma-Moly	
THG-10			Second Ring	1.5mm	Ctandard Tanaian	
55-990				3.0000	Standard Tension	
R-10703	4.250	8 Cyl.	Ton Ding	1 5	File Fit	5-35-65
			Second Ring	1.50000 1.5mm	Plasma-wory	
SS-99U			Oil Ring	3.0mm	Standard Tension	
B-10704	4 320	8 Cvl	.		File Fit	5-35-65
BT-18PF	11020	o oyn	Top Ring	1.5mm	Plasma-Moly	
THG-10			Second Ring	1.5mm	,	
SS-99U			Oil Ring	3.0mm	Standard Tension	
R-10705	4.360	8 Cyl.			File Fit	5-35-65
BT-18PF			Top Ring	1.5mm	Plasma-Moly	
THG-10			Second Ring	1.5mm	Ctandard Tanaian	
55-990 D 40700	4 500	0.0.1		3.011111		
R-10/06	4.500	8 Cyl.	Top Ping	1 5mm	File Fit Plasma Moly	5-35-65
THG-10			Second Bing	1.5mm	Flashla-Woly	
SS-99U			Oil Ring	3.0mm	Standard Tension	
R-19100	4.000	8 Cvl.			HellFire	5-35-45-65
BR-19-111			Top Ring	1/16	HellFire	
RBT-10-072			Second Ring	1/16		
SS-50U-2800			Oil Ring	3/16	Standard Tension	
R-19101	4.125	8 Cyl.			HellFire	5-35-45-65
BR-19-112			Top Ring	1/16	HellFire	
RB1-10-096			Second Ring	1/16	Standard Tanaian	
55-500-462 D 40400	4.050	0.0.1		3/10		05.05
R-19102 BB-10-113	4.250	8 Cyl.	Top Bing	1/16	HellFire	35-65
BBT-10-075			Second Bing	1/16		
SS-50U-619			Oil Ring	3/16	Standard Tension	
R-19103	4.320	8 Cyl.			HellFire	35
BR-19-114			Top Ring	1/16	HellFire	
RBT-10-076			Second Ring	1/16		
SS-50U-424			Oil Ring	3/16	Standard Tension	
R-19104	4.360	8 Cyl.	T D:		HellFire	35
BR-19-115			Top Ring	1/16	HellFire	
SS-50U-639			Oil Ring	3/16	Standard Tension	
B-19105	4 375	8 Cvl	<u> </u>	0,10	HellFire	5
BR-19-116	4.010	0 Oyi.	Top Ring	1/16	HellFire	0
RBT-10-077			Second Ring	1/16		
SS-50U-705			Oil Ring	3/16	Standard Tension	
R-19106	4.440	8 Cyl.			HellFire	5
BR-19-117			Top Ring	1/16	HellFire	
RBT-10-107			Second Ring	1/16	Ctandard Tanaian	
D 10107	4 500	0.0.1		3/10		
R-1910/ BB-19-118	4.500	8 Cyl.	Top Bing	1/16	HellFire	0-00-00
BBT-10-180			Second Bing	1/16		
SS-50U-787			Oil Ring	3/16	Standard Tension	
R-19108	4.600	8 Cyl.	•		HellFire	5
BR-19-102		,	Top Ring	.043	HellFire	
RBT-10-212			Second Ring	1/16	o .	
SS-50U-2704			Oil Ring	3/16	Standard Tension	
R-19109	4.600	8 Cyl.	Tu Di		HellFire	5
BR-19-108			Top King Second Bing	1/16	HellFire	
SS-50U-2704			Oil Ring	3/16	Standard Tension	
23 000 -101				0,10		



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-19110	4.675	8 Cyl.	T D'		HellFire	5
BR-19-104 BBT-10-194			Lop Ring Second Ring	.043 1/16	HellFire	
SS-50U-1680			Oil Ring	3/16	Standard Tension	
R-19112	4.000	8 Cyl.			HellFire	5-35-65
BR-19-131 BBT-10-209			Lop Ring Second Ring	1.5mm 1.5mm	HellFire	
SS-50U-3687			Oil Ring	3.0mm	Standard Tension	
R-19113	4.125	8 Cyl.			HellFire	65
BR-19-132 BBT-10-283			Lop Ring Second Ring	1.5mm 1.5mm	HellFire	
SS-50U-3771			Oil Ring	3.0mm	Standard Tension	
R-19114	3.897	8 Cyl.			HellFire	.1338MM
BR-19-129 BBT-10-303			Lop Ring Second Ring	1.5mm 1.5mm	HellFire	
SS-50U-3721			Oil Ring	3.0mm	Standard Tension	
R-19115	3.551	8 Cyl.			HellFire	.136489-1.14MM
BR-19-130 BBT-10-227			Lop Ring Second Ring	1.5mm 1.5mm	HellFire	
SS-50U-3923			Oil Ring	3.0mm	Standard Tension	
R-19117	4.500	8 Cyl.			HellFire	5-65
BR-19-119 BBT-10-317			Lop Ring Second Ring	.043 043	HellFire	
SS-99U-2023			Oil Ring	3.0mm	Low Tension	
R-19118	4.600	8 Cyl.			HellFire	5-30
BR-19-102 BBT-10-233			Top Ring Second Ring	.043 043	HellFire	
SS-99U-2011			Oil Ring	3.0mm	Low Tension	
R-19200	75mm	4 Cyl.			HellFire	Std50MM
BR-19-124 BT-10-531			Lop Ring Second Ring	1.0mm 1.2mm	HellFire	
SS-50U-3957			Oil Ring	2.8mm	Standard Tension	
R-19201	81mm	4 Cyl.			HellFire	Std50MM
BR-19-125 BT-10-556			Top Ring Second Ring	1.0mm 1.2mm	HellFire	
SS-50U-3995			Oil Ring	2.8mm	Standard Tension	
R-19202	84mm	4 Cyl.	Ter Diss	1.0	HellFire	Std Only
BR-19-126 BT-10-640			Second Ring	1.0mm 1.2mm	HellFire	
SS-50U-3767			Oil Ring	2.8mm	Standard Tension	
R-19206	84.8mm	4 Cyl.	Tax Dia a	4.5	HellFire	Std50MM
BR-19-128 RBT-10-2994			Second Ring	1.5mm 1.75mm	HellFire	
SS-50U-3677			Oil Ring	3.0mm	Standard Tension	
R-20100	4.000	8 Cyl.	Top Ding	042	Pro-Series	5-35-45-65-125-135
RBT-10-231			Second Ring	.043	Пазпа-моту	
SS-50U-3569			Oil Ring	3.0mm	Light Tension	
R-20101	4.000	8 Cyl.	Top Bing	043	Pro-Series Plasma-Moly	5
RBT-10-231			Second Ring	.043	Tiaoma Mory	
SS-50U-2725			Oil Ring	3/16	Light Tension	
R-20102 BB-18PF-168	4.000	8 Cyl.	Ton Bing	1 5mm	Pro-Series Plasma-Moly	45-130
RBT-10-230			Second Ring	1.5mm	. Idonia Woly	
SS-50U-3569			Oil Ring	3.0mm	Light Tension	
R-20104 BB-18PF-170	4.600	8 Cyl.	Top Bing	043	Pro-Series Plasma-Moly	5
RBT-10-233			Second Ring	.043	r aoma wory	
SS-50U-3583			Oil Ring	3.0mm	Low Tension	
R-20105 BB-18PE-170	4.600	8 Cyl.	Top Bing	043	Pro-Series Plasma-Moly	5
RBT-10-233			Second Ring	.043	i laonia mory	
SS-50U-2731			Oil Ring	3/16	Low Tension	



Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
R-20106 BR-18PF-174 RBT-10-237 SS-50U-3608	4.675	8 Cyl.	Top Ring Second Ring Oil Ring	.043 .043 3.0mm	Pro-Series Plasma-Moly Low Tension	5-10-30
R-20107 BR-18PF-012 RBT-10-072 SS-50U-3569	4.000	8 Cyl.	Top Ring Second Ring Oil Ring	1/16 1/16 3.0mm	Pro-Series Plasma-Moly Light Tension	35-45-65
R-20108 BR-18PF-021 RBT-10-096 SS-50U-3619	4.125	8 Cyl.	Top Ring Second Ring Oil Ring	1/16 1/16 3.0mm	Pro-Series Plasma-Moly Light Tension	5
R-20109 BR-18PF-186 RBT-10-282 SS-50U-3619	4.125	8 Cyl.	Top Ring Second Ring Oil Ring	.043 .043 3.0mm	Pro-Series Plasma-Moly Light Tension	5-35-45
R-20112 BR-18PF-192 RBT-10-306 SS-50U-3731	4.250	8 Cyl.	Top Ring Second Ring Oil Ring	.043 .043 3.0mm	Pro-Series Plasma-Moly Light Tension	5
R-20113 BR-19-111 RBT-10-317 SS-99U-2023	4.500	8 Cyl.	Top Ring Second Ring Oil Ring	.043 .043 3.0mm	Pro-Series HellFire Standard Tension	5-35



Single Ring Set P/N	Bore Dia.	Cyl.	Position	Width	Specifications	Available Oversizes
WR-9342 BR-18PF-012 RBT-10-072	4.000	8 Cyl.	Top Ring Second Ring	1/16 1/16	File Fit Plasma-Moly	35
SS-50U-1856			Oil Ring	1/8	Standard Tension	
WR-9343 BR-18PF-013 RBT-10-022 SS-50U-5029	4.000	8 Cyl.	Top Ring Second Ring Oil Ring	5/64 5/64 3/16	File Fit Plasma-Moly Standard Tension	35
WR-9771 BR-18PF-012 RBT-10-072 SS-50U-5029	4.000	8 Cyl.	Top Ring Second Ring Oil Ring	1/16 1/16 3/16	File Fit Plasma-Moly Standard Tension	35
WR-9902 BR-18PF-062 RBT-10-102 SS-50U-5029	4.000	8 Cyl.	Top Ring Second Ring Oil Ring	1/16 1/16 3/16	Standard Gap Plasma-Moly Standard Tension	30
WR-9904 BR-18PF-064 RBT-10-103 SS-50U-619	4.250	8 Cyl.	Top Ring Second Ring Oil Ring	1/16 1/16 3/16	Standard Gap Plasma-Moly Standard Tension	60





Material Selection

When choosing valves for a performance engine, the most misunderstood subject is that of material selection. Speed-Pro offers valves in a variety of materials to meet the requirements of virtually any engine. Some companies only sell one or two materials, and claim that their limited selections are the best for all uses. An understanding of the environment in which valves must function will prove these claims to be false, as a single material cannot meet all operating requirements.

The materials available for performance valve applications include carbon steel alloys, stainless steels, inconel, and titanium. Steel alloys such as Silchrome 1(Sil 1) are used in most intake valves due to their strength at intake valve operating temperatures, relatively low cost, and the fact that they can be hardened at the valve tip for durability. Exhaust valves are made of 21-2N or 21-4N stainless steel, which offers greater high temperature strength and corrosion resistance. These alloys are also used for some intake valves. Our 422 stainless is a special alloy developed for intake valve applications, and is stronger than 21-2N or 21-4N at the working temperature of an intake valve. Since stainless steel alloys are not hardenable, a hardened tip must be welded onto the stem. Inconel is

a nickel alloy rarely used in automotive engines, though it may be required for extremely high temperatures such as those found in turbocharged vehicles. Titanium is a strong, lightweight, but expensive material used in maximum output racing engines. The main benefit of titanium is a reduction in valve weight, allowing higher engine speeds.

The key difference between intake and exhaust valves is the temperature at which they operate. The exhaust valve is regularly subjected to highly corrosive exhaust gases at temperatures that may exceed 1400 degrees Fahrenheit. In comparison, the intake valves are cooled by the incoming fuel/air mixture, and do not reach such high temperatures. The lower cost steel alloys may actually be stronger than exhaust valve stainless when they are compared at the lower operating temperature of an intake valve.

Head Design

Valve head shape and size are critical to engine performance. Key areas are head diameter, seat angle, and underhead finish. Valve head diameter has a direct impact on airflow and engine power. Ideally the valve should be large enough so that it is not a restriction to airflow through the cylinder head. Larger valves can be installed in many cylinder heads for improved power potential. Increasing the diameter does have a down side, as a significantly larger valve will lessen low end throttle response and torque. Proper size selection is a compromise between low RPM performance and top

> end power, with the intended use of the engine being the determining factor. Intake valves are normally about 25% greater in diameter than are exhaust valves (in non supercharged engines).

> Valve seat angles are usually determined by the engine manufacturer, although they are easily altered by the engine builder. Unless you have access to a flow bench, it is best to follow the factory recommendations, as the seat angle can have a dramatic impact on performance. Focus your efforts on accuracy when machining the valve seat on the cylinder head. Use multiple angles to locate the cylinder head seat contact area at the proper point on the valve face and maintain minimum seat widths of .045 on the intake, and .060 on

the exhaust. A professional job will yield major performance improvements.

The underhead shape and finish of the valve will also influence airflow. Many of our performance valves feature a machined underhead with a precisely formed radius to the valve stem and a finish designed to enhance both flow and valve strength. One area of continued development has been in the replacement of the older "swirl polish" finish with a CNC machining process, this eliminates potential stress risers. Many of our performance valves now employ this technology.





Stem Design

The valve stem must serve as a bearing area for the valve guide, its tip must be durable enough to survive constant rocker arm contact, and it must have a groove for retention of the valve spring locks. Stem diameter is determined by the desired strength and weight characteristics.

Flash chrome or chrome plating improves valve stem durability in situations where lubrication is marginal. This is particularly important on the exhaust side where high temperatures are present. To assist engine builders now using aggressive oil control techniques, we plate virtually all of our performance valves. Stem to guide clearances will differ depending on stem diameter, engine application, guide material, and on the type of stem seal selected. Stems that are too "tight" will cause more damage than will those on the "loose" side of specifications. Clearances of .0015-.0025 on the intakes, and .002-.003 for exhausts are common.

The most common lock style is the single rectangular groove type, a design which has been proven in competition for decades. Parts for this design are available in a variety of materials and angles to meet any need. Multi-groove type locks have been used in O.E. engines for several years. These allow the valve to rotate independent of the valve spring and retainer, keeping the seating surfaces clean of debris and promoting valve longevity. While street driven vehicles use multi-groove locks without problems, we recommend the single groove style for performance applications. Recently the single radius type groove has been introduced to the U.S. market. This is not a new design, as it has been used in Europe for many years. While eliminating the "corners" of a rectangular groove, radius grooves are only needed for very small stem diameter valves that have marginal strength. It is rare for an automotive valve of any type to fail in the keeper groove area.

Tip Design

The tip of the valve stem must be quite hard to withstand constant moving contact with the rocker arm. The stainless steel valves cannot be hardened to a enough to meet this demand, and thus must use either a welded on "hard tip" or a removable lash cap. The non stainless alloys are hardenable and do not require tips or lash caps. Valves using the multigroove keeper design must be hardened through the entire keeper groove area, thus requiring welded stems when used with stainless head materials.

Weight

Valve weight can be an RPM limiting factor in racing engines, and should be considered when building an engine for high speed use. The intake valve gets the most attention in this area due to its larger size and mass. Titanium valves, though costly, offer dramatic weight savings, extended RPM capability and enhanced valve spring life.

Piston to Valve Clearances

No valve can withstand piston contact. If you experience valve head breakage it is almost guaranteed that the cause was piston to valve interference. We recommend a minimum of .100 clearance, which may sound like a lot. While you may know someone that got away with a lot less, we've heard from plenty of racers that didn't – so check it and run on the safe side. You can't win if you don't finish the race.

Cost

Each valve material has benefits and detriments. Stainless is the material of choice for exhaust valves, but may not be optimal for intake valve use. Alloy steels offer good characteristics for most street and racing intake valve applications. We offer stainless intake valves, which are excellent for street performance vehicles. Titanium intake valves are the choice for maximum performance. Weigh the benefits of each type against your performance needs.

Performance Valve Materials:

These materials are selected to meet specific engine requirements. The definition of "stainless steel" is generally accepted to be a steel alloy containing at least 10% chromium in its composition. As can be seen below, Sil 1 approaches this level while maintaining many of the favorable characteristics and lower costs associated with the inexpensive carbon steel alloys. Sil XB, 21-2N, and 21-4N are true stainless steel alloys.

- **1541:** Carbon steel with added manganese for improved corrosion resistance.
- **8440:** Medium to heavy duty steel alloy with a higher chromium content for than 3140 to enhance high temperature strength.
- Sil 1: Heavy duty steel alloy with an 8.5% chromium content for excellent high temperature performance. Used for most high performance intake valves.
- Sil XB: A ferritic stainless steel alloy, with a 20% chromium content and 1.3% nickel. Used in heavy duty intake valves.
- **Ti-6:** Titanium is a lightweight, nonferrous material used in high RPM racing applications. It is 40% lighter than steel and maintains its strength at high temperatures.
- **21-2N:** Austenitic stainless steel with 21% chromium and 2% nickel. As the most popular exhaust valve material, it has excellent performance characteristics at elevated temperatures.
- **21-4N:** An austenitic stainless steel similar to 21-2N, except for a greater nickel content (4%), used as a heavy duty alternate to 21-2N.

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Performance Valves – Numerical Listing

P/N	Mfgr.	Engine	Position	Head Dia.	Stem Dia.	Length	Angle	Finish	Tip Length	Groove	Material
0.E. I	Replaceme	ent Valves									
V-1199	Chevrolet	Small Block	Exhaust	1.500	.3415	4.928	45			1 groove + Seal groove	21-4N
V-1339	Chrysler	Big Block	Exhaust	1.598	.3715	4.890	45			4 groove	21-2N
V-1500 V-1532	Pontiac	V8	Intake	2.000	.3725	4.000 4 854	40 30			z groove	51L-1 FN-52
V-1532	Ford	390, 427, 428	Intake	2.027	.3716	5.446	45			1 groove	SIL-1
V-1612	Chevrolet	Small Block	Intake	1.940	.3410	4.880	45			1 groove + Seal groove	SIL-1
V-1710	Ford	Small Block	Exhaust	1.450	.3420	4.863	45			1 groove	21-4N
V-1711	Ford	Small Block	Intake	1.669	.3420	4.863	45			1 groove	1047
V-1722	Chrysler	Small Block	Intake	1.780	.3725	4.979	45			2 groove	SIL-1
V-1755	Chovrolot	V8 Small Block	Exhaust	1.919	.3407	4.894	30	Swirl Polich		1 groove + Seal groove	21 4N
V-1755	Chevrolet	Small Block	Intake	2 020	3415	4.903	45	Machined		1 groove + Seal groove	SII -1
V-1770	Oldsmobile	V8	Exhaust	1.562	.3422	4.728	44	Maoninou		1 groove	21-2N
V-1772	Oldsmobile	V8	Exhaust	1.624	.3422	4.695	45			1 groove	21-4N
V-1773	Oldsmobile	V8	Intake	1.876	.3425	4.738	45			1 groove	EN-52
V-1775	Oldsmobile	V8	Intake	1.992	.3430	4.709	44			1 groove	SIL-1
V-17783	Ford	vo Small Block	Intake	2.003	.3427 3420	4.710	30 45				1047 8645
V-1784	Ford	Small Block	Exhaust	1.450	.3415	4.873	45			1 groove	21-4N
V-1785	Ford	Small Block	Intake	1.774	.3420	4.863	45			1 groove	SIL-1
V-1799	Buick	V8	Exhaust	1.625	.3725	5.162	45			1 groove; Wide groove	21-2N
V-1800	Buick	V8	Intake	2.000	.3725	5.137	45			1 groove; Wide groove	1047
V-1813	Pontiac	V8	Exhaust	1.640	.3410	4.876	45			1 groove + Seal groove	21-4N
V-1023 V-1824	Pontiac	VO V8	Intake	1.000	.3410	5.062	40 29			1 groove + Seal groove	21-2N 1047
V-1826	Pontiac	V8	Intake	2.110	.3415	5.098	30			1 groove + Seal groove	8645
V-1830	AMC	V8	Exhaust	1.625	.3710	4.918	45			1 groove	21-2N
V-1831	AMC	V8	Intake	2.015	.3715	4.899	29			1 groove	8645
V-1832	Pontiac	V8	Exhaust	1.660	.3405	4.984	44			1 groove + Seal groove	21-2N
V-1849	Ford	429, 460	Exhaust	1.654	.3420	5.083	45			1 groove	21-2N
V-1000 V-1853	Ford	429,400	Evhaust	2.083	.3420 3715	5.200 5.436	45 45			1 groove	51L-1 21-4N
V-1861	Chevrolet	Bia Block	Exhaust	1.874	.3703	5.362	45			1 groove	21-4N
V-1864	Chrysler	Small Block	Intake	2.020	.3725	4.986	45			4 groove	SIL-XBE
V-1875	Ford	390, 427, 428	Exhaust	1.652	.3705	5.426	45			1 groove	21-2N
V-1876	Ford	390, 427, 428	Intake	2.087	.3710	5.447	30			1 groove	SIL-1
V-18/9	Ford	Cleveland Small Block	Exhaust	1./10	.3415	5.050	45 45			4 groove	21-2N 21 4N
V-1900	Chrvsler	Big Block	Exhaust	1.740	.3717	4.884	45.30			4 groove	21-4N
V-1902	Pontiac	V8	Exhaust	1.772	.3411	4.976	45			1 groove + Seal groove	21-4N
V-1903	Pontiac	V8	Intake	2.110	.3420	4.982	29			1 groove + Seal groove	1047
V-1904	Chevrolet	Small Block	Exhaust	1.500	.3414	4.928	45			1 groove + Seal groove	21-4N
V-1905	Chevrolet	Big Block	Intake	2.189	.3720	5.228	45			1 groove	SIL XBE
V-1908 V-1911	Chevrolet	Big Block	Fyhaust	1.000	.3725 .3718	4.901 5.355	45 45			1 groove	51L-1 21-4N
V-1912	Chevrolet	Big Block	Intake	2.065	.3720	5.230	45			1 groove	SIL-1
V-1920	Pontiac	V8	Intake	2.110	.3415	4.880	29			1 groove + Seal groove	1047
V-1926	Chevrolet	Small Block	Intake	1.940	.3414	4.880	45			1 groove + Seal groove	SIL-1
V-1927	Chevrolet	Small Block	Intake	1.720	.3413	4.917	45			1 groove + Seal groove	SIL-1
V-1932	Ford	Small Block	Exhaust	1.701	.3420	5.050	45			1 groove	SIL-1
V-1933	Oldsmobile	429, 400 V8	Exhaust	1.622	.3423	4.708	40			1 aroove	21-2N
V-1943	Oldsmobile	V8	Exhaust	1.684	.3423	4.675	30			1 groove	21-2N
V-1946	Pontiac	V8	Exhaust	1.775	.3409	5.051	45			1 groove + Seal groove	21-4N
V-1961	Ford	Small Block	Exhaust	1.460	.3415	5.070	45			1 groove	21-4N
V-1963	Pontiac	V8	Exhaust	1.661	.3410	4.961	44			1 groove + Seal groove	21-2N
V-1964 V-1967	Pontiac	V8 V8	Fxhaust	1.960	3415	4.980	44			1 groove + Seal groove	21-2N
V-1979	AMC	V8	Intake	2.026	.3719	4.898	30			4 groove	EN-52
V-1980	AMC	V8	Exhaust	1.680	.3710	4.929	44			1 groove	21-2N
V-1981	AMC	V8	Intake	1.787	.3720	4.899	29			1 groove	SIL-1
V-1984	Ford	429, 460	Exhaust	1.653	.3419	4.983	45			1 groove	21-4N
V-1989X	Chevrolet	Big Block	Exhaust	1.720	.3716	5.355	45			1 groove	21-4N
V-1995 V-2023	AMC	vo V8	Fxhaust	1.075	.3420 3720	4.007	44 44			aroove	1047 21-4N
V-2024	AMC	V8	Exhaust	1.680	.3721	4.909	44			4 groove	21-4N
V-2028	Oldsmobile	V8	Exhaust	1.622	.3423	4.675	30			1 groove	21-2N
V-2029	Chrysler	Small Block	Exhaust	1.500	.3715	5.002	43			4 groove	21-4N
V-2030	Ford	Cleveland	Exhaust	1.655	.3414	5.050	45			4 groove	21-4N

Performance Valves – Numerical Listing



P/N	Mfgr.	Engine	Position	Head Dia.	Stem Dia.	Length	Angle	Finish	Tip Length	Groove	Material	
0.E. F	O.E. Replacement Valves - cont'd.											
V-2044	Ford	Small Block	Exhaust	1.461	.3414	5.070	45			1 groove	21-2N	
V-2045	Ford	Small Block	Intake	1.782	.3420	5.070	45			1 groove	SIL-1	
V-2061	Oldsmobile	V8	Exhaust	1.502	.3423	4.688	30			1 groove	21-4N	
V-2065	Chrysler	440	Intake	2.080	.3721	4.878	45			2 groove	SIL-XBE	
V-2075	Ford	Cleveland	Intake	2.041	.3420	5.231	45			4 groove	SIL-1	
V-2095	Ford	Cleveland	Exhaust	1.656	.3414	5.050	45			1 groove	21-4N	
V-2113	Chrysler	Small Block	Exhaust	1.600	.3715	5.005	43			2 groove	21-2N	
V-2117	Buick	V6	Intake	1.710	.3407	4.713	45			1 groove	SIL-1	
V-2141	Chrysler	Small Block	Exhaust	1.500	.3715	4.982	45			4 groove	21-4N	
V-2142	Ford	Cleveland	Intake	2.040	.3420	5.231	45			1 groove	SIL-1	
V-2143	Chevrolet	Small Block	Intake	1.839	.3410	4.912	45			1 groove + Seal groove	SIL-1	
V-2154	Eord		Exhaust	1.017	.3/10	4.994	45 45			2 groove	21-4N CII 1	
V-2170	Chevrolet	Ve	Intako	1.700	3410	4.707	45			1 groove + Seal groove	1547	
V-2205	AMC	16	Fyhaust	1.000	3720	4 892	43				21-2N	
V-2206	AMC	16	Intake	1.787	.3720	4.899	30			1 groove	1547	
V-2290	Chevrolet	V6	Exhaust	1.425	.3413	4.736	45			1 groove + Seal groove	21-4N	
V-2291	Chevrolet	V6	Intake	1.718	.3413	4.705	45			1 groove + Seal groove	SIL-1	
V-2429	Ford	Small Block	Exhaust	1.457	.3414	4.942	45			1 groove	21-4N	
V-2430	Ford	Small Block	Intake	1.777	.3420	4.942	45			1 groove	SIL-1	
V-2431	Chevrolet	V6	Exhaust	1.425	.3136	4.736	45			1 groove	21-4N	
V-2432	Chevrolet	V6	Intake	1.718	.3140	4.705	45			1 groove	SIL-1	
V-2450X	Chevrolet	Big Block	Exhaust	1.720	.3716	5.355	45			1 groove	NIMONIC 80A	
V-2452	Ford	429, 460	Intake	1.977	.3419	5.180	45			1 groove	SIL-1	
V-2556	Chrysler	Small Block	Exhaust	1.617	.3/16	4.995	45			2 groove	21-4N	
V-2054	Chrysler	Small Block	Exhaust	1.624	.3115	4.920	44			1 groove	21-4N	
V-3923	Chrysler	vo Small Block	Exhaust	1.772	.3409	5.091	44 /3			1 groove + Sear groove	21-4N	
V-3926	Ford	Small Block	Intake	1.842	3420	5 070	45			1 groove	SII -1	
V-3929	Ford	429, 460	Intake	2.083	.3419	5.198	45			1 groove	SIL-1	
V-3951	Chrysler	Small Block	Exhaust	1.517	.3717	4.994	45			2 groove	21-4N	
V-3954	Chrysler	Small Block	Intake	1.920	.3115	4.905	44			1 groove	SIL-1	
V-4168	Buick	V6	Exhaust	1.500	.3408	4.718	45			1 groove	21-4N	
V-4231	Chevrolet	Small Block	Exhaust	1.600	.3407	4.900	45	Machined		2 groove	21-4N	
V-43/1X		429, 460	Exhaust	1.654	.3419	4.983	45			1 groove	NIMONIC 80A	
POWE			Exhaust	1 600	3415		45	Swirl Polish	289	1 groove	21-2N	
V-2053R	Chevrolet	Big Block	Exhaust	1.875	3718	5 349	45	Swirl Polish	2203	1 groove	21-2N	
V-2054R	Chevrolet	Small Block	Intake	2.020	.3415	4.897	45	Swirl Polish	.259	1 groove	422	
V-2056R	Chevrolet	Big Block	Intake	2.300	.3719	5.225	45	Swirl Polish	.220	1 groove	422	
V-2057R	Chevrolet	Small Block	Intake	1.940	.3414	4.897	45	Swirl Polish	.259	1 groove	422	
V-2289R	Chevrolet	Small Block	Intake	2.080	.3413	4.956	45	Machined	.259	1 groove	SIL 1	
V-2464R	Chevrolet	Big Block	Intake	2.250	.3720	5.230	45	Swirl Polish	.220	1 groove	422	
POWE	ERFORGE	D Compet	ition Ser	ies Stain	less Ste	el Valves	- with ເ	undercut	stems			
V-2423R	Ford	L4 Omell Dissi	Exhaust	1.590	.3410	4.848	45	Swirl Polish	.408	1 groove	21-4N	
V-24/3R	Chevrolet	Small Block	Intake	1.940	.3410	4.898	45	Swirl Polish	.260	1 groove	422	
V-24/4K	Chevrolet	Small Block	Intake	2.020	3410	4.090	45	Swirl Polish	.200	1 groove	422	
V-24/ JR	Chevrolet	Small Block	Intake	2.050	3413	4.942	45	Swirl Polish	259	1 groove	422	
V-247011	Chevrolet	Small Block	Fyhauet	1 500	3415	4 911	45	Swirl Polich	280	1 groove	21-2N	
V-24778R	Chevrolet	Small Block	Exhaust	1.600	3415	4.912	45	Swirl Polich	289	1 groove	21-2N	
V-2480R	Chevrolet	Small Block	Exhaust	1.600	.3415	5.012	45	Swirl Polish	.289	1 groove	21-2N	
V-2481R	Chevrolet	Big Block	Intake	2.190	.3720	5.225	45	Swirl Polish	.220	1 aroove	422	
V-2485R	Chevrolet	Big Block	Exhaust	1.945	.3718	5.357	45	Swirl Polish	.220	1 groove	21-4N	
V-2486R	Chrysler	Small Block	Intake	2.020	.3725	5.008	45	Swirl Polish	.220	1 groove	422	
V-2491R	Ford	Cleveland	Exhaust	1.710	.3415	5.054	45	Swirl Polish	.268	1 groove	21-2N	
POWE	ERFORGE	D Stainles	s Steel \	/alves								
V-8000R	Chevrolet	Small Block	Exhaust	1.500	.3415	4.915	45	Swirl Polish	.290	1 groove	21-2N	
V-8001H	Chevrolet	Small Block	Exhaust	1.600	.3415	4.915	45	SWIR Polish	.290	I groove	21-4N	
V-80020	Chevrolet	Small Block	Exildust Intake	1.000	.3415 3415	0.010 4 Q15	40 45	Swirl Polish	.290 200		∠1-4N 21-4N	
V-8003R	Chevrolet	Small Block	Intake	2.020	.3415	4.915	45	Swirl Polish	.290	1 groove	21-4N	
V-8003R 100	Chevrolet	Small Block	Intake	2.020	.3415	5.015	45	Swirl Polish	.290	1 groove	21-2N	
V-8004R	Chevrolet	Small Block	Intake	2.055	.3415	4.915	45	Swirl Polish	.290	1 groove	21-2N	
V-8004R 100	Chevrolet	Small Block	Intake	2.055	.3415	5.015	45	Swirl Polish	.290	1 groove	21-2N	
V-8005R	Chevrolet	Big Block	Exhaust	1.874	.3710	5.362	45	Swirl Polish	.250	1 groove	21-2N	

2	S	PE	ED
	P	RC	

Performance Valves – Numerical Listing

P/N	Mfgr.	Engine	Position	Head Dia.	Stem Dia.	Length	Angle	Finish	Tip Length	Groove	Material
POWE	ERFORGE	D Stainles	s Steel V	/alves - c	cont'd.						
V-8007R	Chevrolet	Big Block	Intake	2.191	.3719	5.239	45	Swirl Polish	.250	1 groove	21-4N
V-8008R	Chevrolet	Big Block	Intake	2.250	.3710	5.238	45	Swirl Polish	.250	1 groove	21-2N
V-8009R	Chrysler	Small Block	Exhaust	1.600	.3715	5.008	45	Swirl Polish	.214	1 groove	21-2N
V-8010R	Chrysler	Small Block	Intake	2.020	.3725	5.000	45	Swirl Polish	.204	1 groove	21-2N
V-8011R	Chrysler	Big Block	Exhaust	1.811	.3720	4.894	45	Swirl Polish	.275	1 groove	21-4N
V-8012R	Chrysler	Big Block	Intake	2.079	.3724	4.884	45	Swirl Polish	.181	1 groove	21-4N
V-8013R	Chrysler	Big Block	Intake	2.140	.3720	4.882	45	Swirl Polish	.275	1 groove	21-2N
V-8014R	Ford	Small Block	Exhaust	1.465	.3415	5.085	45	Swirl Polish	.395	1 groove	21-2N
V-8015R	Ford	Small Block	Exhaust	1.550	.3415	5.085	45	Swirl Polish	.395	1 groove	21-2N
V-8016R	Ford	Small Block	Exhaust	1.600	.3415	5.085	45	Swirl Polish	.395	1 groove	21-2N
V-8018R	Ford	Small Block	Intake	1.850	.3420	5.093	45	Swirl Polish	.395	1 groove	21-2N
V-8019R	Ford	Small Block	Intake	1.940	.3420	5.091	45	Swirl Polish	.250	1 groove	21-2N
V-8020R	Ford	Cleveland	Exhaust	1.710	.3415	5.056	45	Swirl Polish	.220	1 groove	21-2N
V-8021R	Ford	Cleveland	Intake	2.190	.3415	5.246	45	Swirl Polish	.250	1 groove	21-2N
V-8023R	Ford	390, 427, 428	Exhaust	1.556	.3715	5.439	45	Swirl Polish	.321	1 groove	21-2N
V-8024R	Ford	390, 427, 428	Exhaust	1.654	.3710	5.437	45	Swirl Polish	.321	1 groove	21-2N
V-8025R	Ford	390, 427, 428	Intake	2.027	.3715	5.440	45	Swirl Polish	.321	1 groove	21-2N
V-8026R	Ford	390, 427, 428	Intake	2.090	.3715	5.446	30	Swirl Polish	.321	1 groove	21-2N
V-8027R	Ford	429, 460	Exhaust	1.752	.3415	5.079	45	Swirl Polish	.400	1 groove	21-2N
V-8028R	Ford	429, 460	Intake	2.190	.3415	5.296	45	Swirl Polish	.340	1 groove	21-2N
V-8030R	Pontiac	V8	Exhaust	1.770	.3410	5.090	44	Swirl Polish	.220	1 groove	21-2N
V-8031R	Pontiac	V8	Intake	2.110	.3415	5.097	29	Swirl Polish	.220	1 groove	21-2N
V-8034R	Ford	429, 460	Exhaust	1.650	.3414	5.074	45	Swirl Polish	.400	1 groove	21-2N
V-8035R	Ford	429, 460	Intake	2.089	.3415	5.296	45	Swirl Polish	.340	1 groove	21-2N
V-8036R	Chrysler	Big Block	Exhaust	1.740	.3720	4.894	45	Swirl Polish	.275	1 groove	21-2N

Performance Valves - Progressive Size Chart



Head Dia.	Length	Stem Dia.	Angle	Groove	Tip Length Material	Finish	Position	P/N
O.E. Rep	olacement	Valves						
1.406	4.892	.3720	44	1 groove	21-2N		Exhaust	V-2205
1.406	4.892	.3720	44	4 groove	21-4N		Exhaust	V-2023
1.425	4.736	.3136	45	1 groove	21-4N		Exhaust	V-2431
1.425	4.736	.3413	45	1 groove + Seal groove	21-4N		Exhaust	V-2290
1.450	4.863	.3420	45	1 groove	21-4N		Exhaust	V-1710
1.450	4.873	.3415	45	1 groove	21-4N		Exhaust	V-1/84
1.457	4.942	.3414	45	1 groove	21-4N		Exhaust	V-2429
1.400	5.070	3415	45	1 groove	21-4N 21-2N		Exhaust	V-1901 V-2014
1 500	4 718	.3408	45	1 groove	21-2N 21-4N		Exhaust	V-2044 V-4168
1.500	4 928	3414	45	1 groove + Seal groove	21-4N		Exhaust	V-1904
1.500	4 928	3415	45	1 groove + Seal groove	21-4N		Exhaust	V-1199
1.500	4.982	.3715	45	4 groove	21-4N		Exhaust	V-2141
1.500	5.002	.3715	43	4 groove	21-4N		Exhaust	V-2029
1.502	4.688	.3423	30	1 groove	21-4N		Exhaust	V-2061
1.517	4.994	.3716	45	2 groove	21-4N		Exhaust	V-2154
1.517	4.994	.3717	45	2 groove	21-4N		Exhaust	V-3951
1.540	5.070	.3415	45	1 groove	21-4N		Exhaust	V-1893
1.558	5.436	.3715	45	1 groove	21-4N		Exhaust	V-1853
1.562	4.728	.3422	44	1 groove	21-2N		Exhaust	V-1770
1.598	4.697	.3410	45	1 groove + Seal groove	1547		Intake	V-2173
1.598	4.890	.3715	45	4 groove	21-2N		Exhaust	V-1339
1.600	4.900	.3407	45	2 groove	21-4N	Machined	Exhaust	V-4231
1.600	4.903	.3415	45	1 groove + Seal groove	21-4N	Swirl Polish	Exhaust	V-1/55
1.600	5.005	.3/15	43	2 groove	21-2N		Exhaust	V-2113
1.600	5.005	.3/15	43	4 groove	21-4N		Exhaust	V-3925
1.017	4.995	3/10	40		21-4N 21-2N		Exhaust	V-2000
1.022	4.075	3423	30		21-2N		Exhaust	V-2020 V-1942
1.624	4 695	3422	45	1 groove	21-2N		Exhaust	V-1772
1.624	4.920	.3115	44	1 groove	21-4N		Exhaust	V-2654
1.625	4.918	.3710	45	1 groove	21-2N		Exhaust	V-1830
1.625	5.162	.3725	45	1 groove; Wide groove	21-2N		Exhaust	V-1799
1.640	4.876	.3410	45	1 groove + Seal groove	21-4N		Exhaust	V-1813
1.652	5.426	.3705	45	1 groove	21-2N		Exhaust	V-1875
1.653	4.983	.3419	45	1 groove	21-4N		Exhaust	V-1984
1.654	4.983	.3419	45	1 groove	NIMONIC 804	A	Exhaust	V-4371X
1.654	5.083	.3420	45	1 groove	21-2N		Exhaust	V-1849
1.000	5.050	.3414 3/17	40 45	4 groove	21-4N 21-4N		Exhaust	V-2030 V-2005
1.660	4.870	3410	45	$1 \text{ groove} \pm \text{Seal groove}$	21-4N 21-2N		Exhaust	V-2055
1.660	4 984	3405	44	1 groove + Seal groove	21-2N		Exhaust	V-1832
1.660	5.082	.3410	45	1 groove + Seal groove	21-2N		Exhaust	V-1823
1.661	4.961	.3410	44	1 groove + Seal groove	21-2N		Exhaust	V-1963
1.669	4.863	.3420	45	1 groove	1047		Intake	V-1711
1.680	4.909	.3721	44	4 groove	21-4N		Exhaust	V-2024
1.680	4.929	.3710	44	1 groove	21-2N		Exhaust	V-1980
1.684	4.675	.3423	30	1 groove	21-2N		Exhaust	V-1943
1.710	4.713	.3407	45	1 groove	SIL-1		Intake	V-2117
1./10	5.050	.3415	45	4 groove	21-2N		Exnaust	V-18/9
1./18	4.705	.3140	45 45	I groove	SIL-1		Intake	V-2432 V-2201
1.710	4.705	.0410 3/13	40 45	1 groove + Seal groove	01L-1 011 1		Intake	V-2291 V-1027
1 720	5.355	3716	45	1 groove + Sear groove	01_1N		Fyhauet	V-1927
1 720	5.355	3716	45	1 groove		4	Exhaust	V-2450X
1.720	5.355	.3718	45	1 groove	21-4N	•	Exhaust	V-1911
1.725	5.068	.3420	45	1 groove	SIL-746		Exhaust	V-1933
1.735	4.787	.3419	45	4 groove	SIL-1		Intake	V-2170
1.740	4.884	.3717	45.30	4 groove	21-4N		Exhaust	V-1900
1.772	4.976	.3411	45	1 groove + Seal groove	21-4N		Exhaust	V-1902
1.772	5.091	.3409	44	1 groove + Seal groove	21-4N		Exhaust	V-3923
1.774	4.863	.3420	45	1 groove	SIL-1		Intake	V-1785
1.775	5.051	.3409	45	1 groove + Seal groove	21-4N		Exhaust	V-1946
1.777	4.942	.3420	45	1 groove	SIL-1		Intake	V-2430
1.780	4.863	.3420	45	1 groove	8645		Intake	V-1783
1.780	4.979	.3725	45	2 groove	SIL-1		Intake	V-1/22
1.781	5.050	3420	40 45	1 groove	SIL-I SIL-I		Intake	V-1932 V-2045
1.702	4 800	3720	40	1 groove	SIL-I SIL-I		Intake	V-2045
1.707	4.033	.3720	29	i gloove	01L-1		illane	1301



Performance Valves - Progressive Size Chart

Head Dia.	Length	Stem Dia.	Angle	Groove	Tip Length	Material	Finish	Position	P/N
O.E. Rep	olacement	Valves - c	ont'd.						
1.787	4.899	.3720	30	1 groove		1547		Intake	V-2206
1.839	4.912	.3410	45	1 groove + Seal groove		SIL-1		Intake	V-2143
1.842	5.070	.3420	45	1 groove		SIL-1		Intake	V-3926
1.874	5.362	.3703	45	1 groove		21-4N		Exhaust	V-1861
1.875	4.667	.3428	44	1 groove		1547		Intake	V-1995
1.876	4.738	.3425	45	1 groove		EN-52		Intake	V-1773
1.880	4.981	.3725	45	1 groove		SIL-1		Intake	V-1908
1.002	4.004	.3409	30	1 groove		EIN-02		Intake	V-1332
1.919	4.094	.3407	30	1 groove + Seal groove		SIL_1		Intake	V-1743 V-3054
1.920	4.905	2/10	44					Intake	V-3934
1.940	4.880	3410	45	1 groove \pm Seal groove				Intake	V-1012 V-1926
1 960	4 980	3415	44	1 groove + Seal groove		1047		Intake	V-1964
1.960	5.089	.3415	29	1 groove + Seal groove		1047		Intake	V-1824
1.977	5.180	.3419	45	1 groove		SIL-1		Intake	V-2452
1.992	4.709	.3430	44	1 groove		SIL-1		Intake	V-1775
2.000	5.137	.3725	45	1 groove; Wide groove		1047		Intake	V-1800
2.015	4.899	.3715	29	1 groove		8645		Intake	V-1831
2.020	4.880	.3415	45	1 groove + Seal groove		SIL-1	Machined	Intake	V-1756
2.020	4.986	.3725	45	4 groove		SIL-XBE		Intake	V-1864
2.026	4.898	.3719	30	4 groove		EN-52		Intake	V-1979
2.027	5.446	.3716	45	1 groove		SIL-1		Intake	V-1539
2.040	5.231	.3420	45	1 groove		SIL-1		Intake	V-2142
2.041	5.231	.3420	45	4 groove		SIL-1		Intake	V-2075
2.063	4./18	.3427	30	1 groove		1047		Intake	V-1776
2.065	5.230	.3720	45	1 groove		SIL-1		Intake	V-1912
2.080	4.000	.3723	40	2 groove		SIL-I		Intake	V-1300
2.000	4.070 5.108	3/10	45			SIL-ADE		Intake	V-2005
2.003	5 288	.3420	45	1 groove		SIL-1		Intake	V-1850
2.000	5 447	3710	30	1 groove		SIL-1		Intake	V-1876
2.110	4.880	.3415	29	1 groove + Seal groove		1047		Intake	V-1920
2.110	4.982	.3420	29	1 groove + Seal groove		1047		Intake	V-1903
2.110	5.098	.3415	30	1 groove + Seal groove		8645		Intake	V-1826
2.189	5.228	.3720	45	1 groove		SIL XBE		Intake	V-1905
POWER	FORGED	Competitio	n Series S	Stainless Steel Va	lves				
1.600	4.905	.3415	45	1 groove	.289	21-2N	Swirl Polish	Exhaust	V-2051R
1.0/0	0.349 4 907	.3710	40 45	1 groove	.220	21-2N 400	Swirl Polish	Intako	V-2053R
2 020	4.097	3414	45		259	422	Swirl Polish	Intake	V-2057R
2.080	4.956	.3413	45	1 groove	.259	SIL 1	Machined	Intake	V-2289R
2.250	5.230	.3720	45	1 groove	.220	422	Swirl Polish	Intake	V-2464R
2.300	5.225	.3719	45	1 groove	.220	422	Swirl Polish	Intake	V-2056R
POWER	FORGED	Competitio	n Series S	Stainless Steel Va	lves - with	n undercut	tstems		
1.500	4.911	.3415	45	1 groove	.289	21-2N	Swirl Polish	Exhaust	V-2477R
1.590	4.848	.3410	45	1 groove	.408	21-4N	Swirl Polish	Exhaust	V-2423R
1.600	4.912	.3415	45	1 groove	.289	21-2N	Swirl Polish	Exhaust	V-2478R
1.600	5.012	.3415	45	1 groove	.289	21-2N	Swirl Polish	Exhaust	V-2480R
1./10	5.054	.3415	45	1 groove	.268	21-2N	Swiri Polish	Exnaust	V-2491R
1.940	4.898	.3410	45	1 groove	.260	422 01 /N	Swirl Polish	Intake	V-24/3K
2 020	4 898	3410	45		260	21-41N 400	Swirl Polish	Intako	V-2403R
2 020	5.008	3725	45	1 groove	220	422	Swirl Polish	Intake	V-2486B
2.050	4.942	.3413	45	1 groove	.259	422	Swirl Polish	Intake	V-2475R
2.080	4.956	.3413	45	1 groove	.259	422	Swirl Polish	Intake	V-2476R
2.190	5.225	.3720	45	1 groove	.220	422	Swirl Polish	Intake	V-2481R
POWER	FORGED	Stainless S	Steel Valve	es					
1.465	5.085	.3415	45	1 groove	.395	21-2N	Swirl Polish	Exhaust	V-8014R
1.500	4.915	.3415	45	1 groove	.290	21-2N	Swirl Polish	Exhaust	V-8000R
1.550	5.085	.3415	45	1 groove	.395	21-2N	Swirl Polish	Exhaust	V-8015R
1.556	5.439	.3/15	45 45	i groove	.321	21-2N	SWIR POLISH	Exhaust	V-8023H
1.000	4.915	.3415	45		.290	21-4IN	Swirl Polish	Exhaust	V-8000P
1.000	5.008	3415	45	1 groove	290	21-2N	Swirl Polish	Exhaust	V-8009H
1.600	5.085	.3415	45	1 groove	.395	21-2N	Swirl Polish	Exhaust	V-8016B
1.650	5.074	.3414	45	1 groove	.400	21-2N	Swirl Polish	Exhaust	V-8034R

Performance Valves - Progressive Size Chart

Perfor	mance	Valves -	Progr	essive Size	e Chart				PRO PRO
Head Dia.	Length	Stem Dia.	Angle	Groove	Tip Length	Material	Finish	Position	P/N
POWER	FORGED	Stainless S	teel Valv	es - cont'd.	·	•			
1.654	5.437	.3710	45	1 groove	.321	21-2N	Swirl Polish	Exhaust	V-8024R
1.710	5.056	.3415	45	1 groove	.220	21-2N	Swirl Polish	Exhaust	V-8020R
1.740	4.894	.3720	45	1 groove	.275	21-2N	Swirl Polish	Exhaust	V-8036R
1.752	5.079	.3415	45	1 groove	.400	21-2N	Swirl Polish	Exhaust	V-8027R
1.770	5.090	.3410	44	1 groove	.220	21-2N	Swirl Polish	Exhaust	V-8030R
1.811	4.894	.3720	45	1 groove	.275	21-4N	Swirl Polish	Exhaust	V-8011R
1.850	5.093	.3420	45	1 groove	.395	21-2N	Swirl Polish	Intake	V-8018R
1.874	5.362	.3710	45	1 groove	.250	21-2N	Swirl Polish	Exhaust	V-8005R
1.937	4.915	.3415	45	1 groove	.290	21-4N	Swirl Polish	Intake	V-8002R
1.940	5.091	.3420	45	1 groove	.250	21-2N	Swirl Polish	Intake	V-8019R
2.020	4.915	.3415	45	1 groove	.290	21-4N	Swirl Polish	Intake	V-8003R
2.020	5.000	.3725	45	1 groove	.204	21-2N	Swirl Polish	Intake	V-8010R
2.020	5.015	.3415	45	1 groove	.290	21-2N	Swirl Polish	Intake	V-8003R 100
2.027	5.440	.3715	45	1 groove	.321	21-2N	Swirl Polish	Intake	V-8025R
2.055	4.915	.3415	45	1 groove	.290	21-2N	Swirl Polish	Intake	V-8004R
2.055	5.015	.3415	45	1 groove	.290	21-2N	Swirl Polish	Intake	V-8004R 100
2.079	4.884	.3724	45	1 groove	.181	21-4N	Swirl Polish	Intake	V-8012R
2.089	5.296	.3415	45	1 groove	.340	21-2N	Swirl Polish	Intake	V-8035R
2.090	5.446	.3715	30	1 groove	.321	21-2N	Swirl Polish	Intake	V-8026R
2.110	5.097	.3415	29	1 groove	.220	21-2N	Swirl Polish	Intake	V-8031R
2.140	4.882	.3720	45	1 groove	.275	21-2N	Swirl Polish	Intake	V-8013R
2.190	5.246	.3415	45	1 groove	.250	21-2N	Swirl Polish	Intake	V-8021R
2.190	5.296	.3415	45	1 groove	.340	21-2N	Swirl Polish	Intake	V-8028R
2.191	5.239	.3719	45	1 groove	.250	21-4N	Swirl Polish	Intake	V-8007R
2.250	5.238	.3710	45	1 groove	.250	21-2N	Swirl Polish	Intake	V-8008R





Selection Guidelines

Speed-Pro offers a wide variety of high performance pushrods, designed to meet any engine building need. We have new value priced pushrods sold as sets for many popular applications. These pushrods provide many features usually found in parts costing much more. Speed-Pro's chrome-moly racing pushrods are sold individually, in two performance levels. The traditional Speed-Pro line delivers excellent performance for race and street applications, while the Competition Series feature one piece, centerless ground construction, with .065 or .080 wall thicknesses – ideal for professional racing use. Each series of pushrods is described in greater detail below.

Speed-Pro Pushrod Sets

Speed-Pro's new line of performance pushrod sets are ideal for the budget conscious performance enthusiast. They have many features normally found in more expensive pushrods, and are sold in economically priced sets to complete a professional engine rebuild. These pushrods are made in the USA, from high quality 1010 steel. They are hardened to make them guide plate compatible, tumble polished to remove surface imperfections, and black oxide coated for corrosion protection and a professional appearance. Part numbers are laser etched on each pushrod for positive identification.

Speed-Pro Chrome-Moly Pushrods

Manufactured from genuine 4140 Chrome-Moly tubing, these pushrods are ideal for most high performance street and moderate racing applications. Pushrods are available for a vast array of applications, using one and three piece designs to meet the needs of each engine. Each pushrod is centerless ground, surface hardened where necessary for guide plate compatibility, and final checked for correct overall length and straightness. Chrome-Moly Cut-to-Fit pushrod kits are also available in a variety of lengths to meet special requirements. These pushrods deliver race quality features at a reasonable price, and are an excellent value for the engine builder looking for insurance against potential problems.

Speed-Pro Competition Series Chrome-Moly Pushrods

Our newly expanded line of Competition Series pushrods are intended for professional racing applications. These are one piece forged end pushrods manufactured from premium quality .080" wall, 4180 chrome-moly tubing. Wall thickness of the tubing is carefully controlled throughout the pushrod – including the tip. Ball ends are precision formed, with careful attention to maintaining consistent dimensions, insuring rocker arm and lifter compatibility. Each pushrod is hardened for guide plate use, centerless ground to guarantee concentricity, and black oxide coated for corrosion resistance and a professional appearance. Pushrods are available in lengths to cover applications ranging from stock 302 Fords to tall deck race engines. Part numbers and length are laser etched on each pushrod for quick, positive identification.



Pushrods – Numerical Listing



P/N	Mfgr.	Engine	Description	Dia.	Length	Ends	Oil Hole
O. E. Replac	ement Push	Rods					
RP-3031	Chrysler	Big Block	Stock type	5/16 dia.	8.645	C-E	
RP-3112	Oldsmobile	V8	Stock type	5/16 dia.	9.421	C-C	Yes
RP-3159 RP-3160	Chrysler	Small Block	Stock type; w/Adj. rocker arms	5/16 dia.	7.572	C-A	Voc
RP-3164	Buick	429, 400 V6	Hardened: Stock type	5/16 dia.	8.693	B-B	Yes
	Ford	429, 460	Hardened; Stock type	5/16 dia.	8.693	B-B	Yes
RP-3164 35	Buick	V6	Stock type	5/16 dia.	8.728	B-B	Yes
RP-3164 60	Buick	V6	Stock type	5/16 dia.	8.753	B-B	Yes
RP-3165	Ford	Small Block	Stock type	5/16 dia.	6.801	B-B	Yes
RP-3171 RP-3174	Oldsmobile	V8 V8	Stock type	5/16 dia. 5/16 dia	9.594 8.234	B-B B-B	Yes Ves
BP-3179	Buick	455	Stock type	5/16 dia.	9.378	B-B	Yes
RP-3185	Ford	429, 460	Stock type	5/16 dia.	8.648	B-B	Yes
RP-3186	Ford	Cleveland	Stock type	5/16 dia.	9.500	B-B	Yes
RP-3187	Ford	Boss 302	Hardened; Stock type	5/16 dia.	7.601	B-B	Yes
RP-3194	Chrysler	Small Block	Stock type; w/Non adj. rocker arms	5/16 dia.	7.500	B-B	Vee
RP-319/ RP-3205	Oldsmobile	V8 V8	Stock type	5/16 dia. 5/16 dia	9.546	B-B B-B	Yes Ves
RP-3207	Chevrolet	2.8L	Hardened: Stock type	5/16 dia.	6.163	B-B	Yes
RP-3254	Chevrolet	Big Block	Hardened; Stock type	5/16 dia.	9.202	B-B	Yes
RP-3255	Chevrolet	Big Block	Hardened; Stock type	5/16 dia.	8.227	B-B	Yes
Chrome Mol	y Push Rods	;					
RP-3212R	AMC	V8	Hardened	5/16 dia.	7.790	C-C	Yes
-	Chevrolet	Small Block	Hardened	5/16 dia.	7.790	C-C	Yes
	Chevrolet	V6	Hardened	5/16 dia.	7.790	C-C	Yes
RP-3212R 100	AMC	V8	Hardened	5/16 dia.	7.890	C-C	Yes
	Chevrolet	Small Block	Hardened	5/16 dia.	7.890	0-0	Yes
BP-3212B 150	AMC	V8	Hardened	5/16 dia.	7.890	0-0	Yes
	Chevrolet	Small Block	Hardened	5/16 dia.	7.940	C-C	Yes
RP-3212R 200	AMC	V8	Hardened	5/16 dia.	7.990	C-C	Yes
	Chevrolet	Small Block	Hardened	5/16 dia.	7.990	C-C	Yes
RP-3213R	Buick	V6	Hardened	5/16 dia.	8.690	0.0	Yes
RP-3214R	BUICK Chevrolet	350	Hardened	5/16 dia. 5/16 dia	9.680	C-C	Yes Ves
RP-3215R	Chevrolet	Bia Block	hardened	3/8 dia.	9.252	F-F	Yes
RP-3216R	Chevrolet	Big Block		3/8 dia.	8.280	F-F	Yes
RP-3217R	Chevrolet	Big Block		7/16 dia.	8.280	F-F	Yes
RP-3218R	Chevrolet	Big Block		7/16 dia.	9.252	F-F	Yes
RP-3219R 100	Chrysler	Small Block		5/16 dia.	7.390	A-D	Voc
RP-3227R	Ford	Small Block	Hardened	5/16 dia	9.295 6.804	0-0	Yes
RP-3223R	Ford	Small Block	Hardened	5/16 dia.	6.885	C-C	Yes
RP-3224R	Ford	Boss 302	Hardened	5/16 dia.	7.605	C-C	Yes
RP-3225R	Ford	Small Block	Hardened	5/16 dia.	8.144	C-C	Yes
RP-3226R	Ford	Cleveland	Hardened	5/16 dia.	8.410		Yes
RP-3228R	Oldsmobile	390, 427, 420 V8		5/16 dia.	9.550	C-C	Yes
RP-3229R	Pontiac	V8	Hardened	5/16 dia.	9.130	C-C	Yes
RP-3230R	Ford	390, 427, 428		5/16 dia.	9.330	A-B	
RP-3251R	Ford	429, 460	Hardened	5/16 dia.	8.550	C-C	Yes
RP-3264R	Chevrolet	Small Block	Hardened	5/16 dia.	7.290	C-C	Yes
RP-3200R	Chevrolet	Big Block	Hardened	3/8 dia.	8 756	E-E E-F	Yes
RP-3320R	Chrysler	Big Block	Hardened	3/8 dia.	9.357	A-G	103
RP-3322R	Ford	Cleveland	Hardened	5/16 dia.	8.492	C-C	Yes
RP-3323R	Ford	Small Block	Hardened	5/16 dia.	8.182	C-C	Yes
RP-3329R	Ford	Small Block	Hardened	5/16 dia.	6.250	C-C	Yes
Competition	Series, Hard	lened Chrom	e Moly, One Piece Design				
RP-7001R	Chevrolet	Small Block	Hardened; 1-piece	5/16 dia.	7.796	C-C	Yes
BP-7001B 150	Chevrolet	Small Block	Hardened: 1-piece	5/16 dia	7.946	0-0	Yes
RP-7001R 200	Chevrolet	Small Block	Hardened; 1-piece	5/16 dia.	7.996	C-C	Yes
RP-7002R	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	9.250	E-E	Yes
RP-7002R 100	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	9.350	E-E	Yes
RP-7002R 400	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	9.650	E-E	Yes
RP-7003R	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	8.280	E-E	Yes



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Pushrods – Numerical Listing
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P/N	Mfgr.	Engine	Description	Dia.	Length	Ends	Oil Hole
Competition	Series, Harde	ened Chrome	Moly, One Piece Design - co	nt'd.			
RP-7003R 100	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	8.380	E-E	Yes
RP-7003R 400	Chevrolet	Big Block	Hardened; 1-piece	3/8 dia.	8.680	E-E	Yes
RP-7500R 100	Chevrolet	Small Block	Hardened; 1-piece	5/16 dia.	7.896	C-C	Yes
RP-7500R 150	Chevrolet	Small Block	Hardened; 1-piece	5/16 dia.	7.946	C-C	Yes
RP-7500R 200	Chevrolet	Small Block	Hardened; 1-piece	5/16 dia.	7.996	C-C	Yes
RP-7501R	Chevrolet	Big Block	Hardened; 1-piece	7/16 dia.	9.252	E-E	Yes
RP-7625R	Ford	Small Block	Black oxide coated; Late model; Stock	3/8 dia.	6.250	C-C	Yes
RP-7635R			Black oxide coated	3/8 dia.	6.350	C-C	Yes
RP-7685R			Black oxide coated	3/8 dia.	6.850	C-C	Yes
RP-7695R			Black oxide coated	3/8 dia.	6.950	C-C	Yes
RP-7785R	Chevrolet	Small Block	Black oxide coated; +.050	3/8 dia.	7.850	C-C	Yes
RP-7855R	Ford	429, 460	Black oxide coated; Stock length	3/8 dia.	8.550	C-C	Yes
Push Rod S	Push Rod Sets						
RP-5000RK	Chevrolet	Small Block	Hardened; Black oxide coated	5/16 dia.	7.815	B-B	Yes
RP-5000RK 100	Chevrolet	Small Block	Hardened; Black oxide coated	5/16 dia.	7.915	B-B	Yes
RP-5002RK	Chevrolet	Big Block	Hardened; Black oxide; Int.	3/8 dia.	9.256	B-B	Yes
	Chevrolet	Big Block	Hardened; Black oxide; Exh.	3/8 dia.	8.305	B-B	Yes

Pushrods – Progressive Size Chart



Length	Diameter	Ends	Oil Hole	Description	P/N
	coment Push	Rode			
			Vaa	Llaudanadu Otaali tuna	DD 2007
6.103	5/16 dia. 5/16 dia	B-B	Yes	Stock type	RP-3207 RP-3165
7.500	5/16 dia.	B-B	100	Stock type; w/Non adj. rocker arms	RP-3194
7.572	5/16 dia.	C-A		Stock type; w/Adj. rocker arms	RP-3159
7.601	5/16 dia.	B-B	Yes	Hardened; Stock type	RP-3187
8.227	5/16 dia.	B-B	Yes	Hardened; Stock type	RP-3255
8.234	5/16 dia.	B-B	Yes	Stock type	RP-3174 PD-2205
8.550	5/16 dia.	B-B	Yes	Hardened: Stock type	BP-3160
8.645	5/16 dia.	C-E	100	Stock type	RP-3031
8.648	5/16 dia.	B-B	Yes	Stock type	RP-3185
8.693	5/16 dia.	B-B	Yes	Hardened; Stock type	RP-3164
8.728	5/16 dia.	B-B	Yes	Stock type	RP-3164 35
8.753	5/16 dia. 5/16 dia	B-B B-B	Yes	Stock type	RP-3104 60 RD-3254
9.378	5/16 dia.	B-B	Yes	Stock type	RP-3179
9.421	5/16 dia.	C-C	Yes	Stock type	RP-3112
9.500	5/16 dia.	B-B	Yes	Stock type	RP-3186
9.546	5/16 dia.	B-B	Yes	Stock type	RP-3197
9.594	5/16 dia.	B-B	Yes	Stock type	RP-3171
Chrome M	oly Push Rods	S			
6.250	5/16 dia.	C-C	Yes	Hardened	RP-3329R
6.804	5/16 dia.	C-C	Yes	Hardened	RP-3222R
6.885	5/16 dia.	C-C	Yes	Hardened	RP-3223R
7.290	5/16 dia.	C-C	Yes	Hardened	RP-3264R
7.390	5/16 dla.	A-D	Voo	Hardanad	RP-3219R 100
7 785	3/8 dia	F-F	Yes	Hardened	BP-3266B
7.790	5/16 dia.	C-C	Yes	Hardened	RP-3212R
7.890	5/16 dia.	C-C	Yes	Hardened	RP-3212R 100
7.940	5/16 dia.	C-C	Yes	Hardened	RP-3212R 150
7.990	5/16 dia.	C-C	Yes	Hardened	RP-3212R 200
8.144	5/16 dia.	0-0	Yes	Hardened	RP-3225R
8 280	3/8 dia	F-F	Yes	Taldelled	BP-3216B
8.280	7/16 dia.	F-F	Yes		RP-3217R
8.410	5/16 dia.	C-C	Yes	Hardened	RP-3226R
8.492	5/16 dia.	C-C	Yes	Hardened	RP-3322R
8.550	5/16 dia.	C-C	Yes	Hardened	RP-3251R
8.690	5/16 018. 3/8 dia	C-C E-E	Yes	Hardened	RP-3213R RD-3267R
9 130	5/16 dia	C-C	Yes	Hardened	BP-3229B
9.252	3/8 dia.	F-F	Yes		RP-3215R
9.252	7/16 dia.	F-F	Yes		RP-3218R
9.295	5/16 dia.	C-C	Yes		RP-3221R
9.330	5/16 dia.	A-B		Laulanad	RP-3230R
9.357	5/6 ula. 5/16 dia	A-G	Vac	narueneu	RP-3320R RD-3228P
9.595	5/16 dia.	B-B	165		RP-3227R
9.680	5/16 dia.	C-C	Yes	Hardened	RP-3214R
Competitio	on Series Har	dened Chro	me Moly One	Piece Design	
6 250	2/9 dia		Voc	Black oxide costed: Late model: Stock	DD-7625D
6.250	3/8 dia	0-0	Yes	Black oxide coated	RP-7635R
6.850	3/8 dia.	C-C	Yes	Black oxide coated	RP-7685R
6.950	3/8 dia.	C-C	Yes	Black oxide coated	RP-7695R
7.796	5/16 dia.	C-C	Yes	Hardened; 1-piece	RP-7001R
7.850	3/8 dia.	C-C	Yes	Black oxide coated; +.050	RP-7785R
7.896	5/16 dia. 5/16 dia	0-0	Yes	Hardened; 1-piece	RP-7001K 100
7.946	5/16 dia.	0-0	Yes	Hardened: 1-piece	RP-7001R 150
7.946	5/16 dia.	C-C	Yes	Hardened; 1-piece	RP-7500R 150
7.996	5/16 dia.	C-C	Yes	Hardened; 1-piece	RP-7001R 200
7.996	5/16 dia.	C-C	Yes	Hardened; 1-piece	RP-7500R 200
8.280	3/8 dia.	E-E	Yes	Hardened; 1-piece	RP-7003R
8.380	3/8 dia.	E-E C-C	Yes	Hardened; 1-piece Black oxide coated: Stock length	HP-7003H 100
8.680	3/8 dia.	F-F	Yes	Hardened: 1-piece	RP-7003R 400



Pushrods – Progressive Size Chart

Length	Diameter	Ends	Oil Hole	Description	P/N
Competition	n Series, Har	Piece Design - cont'd.			
9.250	3/8 dia.	E-E	Yes	Hardened; 1-piece	RP-7002R
9.252	7/16 dia.	E-E	Yes	Hardened; 1-piece	RP-7501R
9.350	3/8 dia.	E-E	Yes	Hardened; 1-piece	RP-7002R 100
9.650	3/8 dia.	E-E	Yes	Hardened; 1-piece	RP-7002R 400
Push Rod	Sets				
7.815	5/16 dia.	B-B	Yes	Hardened; Black oxide coated	RP-5000RK
7.915	5/16 dia.	B-B	Yes	Hardened; Black oxide coated	RP-5000RK 100
8.305	3/8 dia.	B-B	Yes	Hardened; Black oxide; Exh.	RP-5002RK
9.256	3/8 dia.	B-B	Yes	Hardened; Black oxide; Int.	RP-5002RK

ROCKER ARMS SPEED



Selection Guidelines

Speed-Pro has a full selection of rockers for the performance engine builder. Options include everything from long slot versions of the original equipment part – allowing use of a larger than stock cam, to race quality roller rockers machined from a solid bar of extruded aluminum. We cover virtually all popular engine combinations, with many applications having optional ratios available for additional fine tuning.



High Performance Stamped Steel Rocker Arms

These rockers are similar in design to the ones originally used on most engines, but incorporate features and improvements which make them a useful upgrade for a budget conscious engine builder. Careful attention to detail in manufacturing insures accurate ratios. Hardened steel alloys deliver long life at the critical fulcrum, valve, and pushrod seat areas. Longer stud slots allow these rockers to work with higher lift cams. Optional ratios are available for popular engines, offering a low cost method of enhancing performance.

Speed-Pro Roller Tip Steel Rocker Arms

Steel roller rocker arms combine the proven ball stud mounting found in the stock style rockers with a roller tip to reduce valvetrain friction and minimize guide wear. The roller tip allows more precise control of the rocker arm ratio, with the resultant potential for increased power. Optional rocker arm ratios offer even greater horsepower gains by increasing effective valve lift – without changing cams. These rocker arms are a great alternative for the street performance vehicle owner who desires the benefits of roller rockers at a more reasonable cost. Speed-Pro supplies these rockers for small block Chevy, Big Block Chevy, and small block Ford applications.

Speed-Pro Competition Series Aluminum Roller Rockers

Speed-Pro's Aluminum Roller Rockers are ideal for racing use, as well as for high output street driven vehicles. Aluminum Roller Rockers are available for most popular engines, including those with stud and shaft style mountings.

Speed-Pro Aluminum Roller Rockers are sold in engine sets, complete with all required mounting hardware and high strength adjustment locks. Individual rocker arms and adjustment locks are also available, to service lost or damaged components. (The individual rocker arms do not include locks or hardware.)

The high strength rocker bodies are precision machined from a solid bar of extruded aluminum. They are then anodized for corrosion resistance and a professional appearance. Stud mounted rockers include friction reducing H.D. roller trunions for both 3/8" and 7/16" stud diameters. A hardened steel pushrod seat is also incorporated into the rocker's design. At the valve end of the rocker, a hardened and precision machined steel roller tip spins on a high strength steel axle, minimizing guide wear and further reducing valvetrain friction. The combined friction reduction and the superior ratio accuracy make significant horsepower gains possible. The availability of optional ratios to increase effective valve lift make even greater improvements attainable. Available for a wide array of engine applications, including a new kit to install aluminum roller rockers on Ford 5.0L engines without costly machining.

Speed-Pro Competition Series Stainless Steel Roller Rockers

Speed-Pro's Stainless Steel roller rockers are intended for severe stress racing use, though they can be used in any application which demands the ultimate in reliability. With many of the same friction reducing features and ratio options of our aluminum rocker, the stainless version adds an extremely strong body material, which may be required in certain oval track and endurance racing situations. Stainless Steel Roller Rockers are only sold individually, and come with the required adjustment locks.



Rocker Arms And Sets – Numerical Listing

P/N	Mfgr.	Engine	Description	Ratio	Notes
O.E. Style Rocke	ers				
R-814 R-828 R-829 R-832	Ford Chrysler Chrysler Chevrolet	390, 427, 428 Big Block Big Block L6	Stock type O.E. Right hand O.E. Left Hand Stock type	1.73 Ratio	Non-adj.; Use RP-3227R push rod Non-adj. Non-adj.
R-836	Ford	Small Block	H/D cast w/o rails	1.6 Ratio	Use .240 tip valve; Guide plate
R-847 R-848 R-850 R-855	Ford Pontiac Pontiac Ford	Small Block V8 V8 V8	Cast; Rail Type O.E. Positive stop Stock type Stock Type	1.6 Ratio 1.5 Ratio 1.65 Ratio 1.73 Ratio	1968 to 78-1/2 389; 1959-66 Ram Air IV; 7/16 stud req'd Non-adj.
R-856	Oldsmobile	V8	Stock type	Rocker/pivot	Exc. 1980 350; 2 rockers, 1 pivot
R-861 R-862 R-865R R-866R R-870	Chrysler Chrysler Chevrolet Chevrolet Buick Buick	Small Block Small Block Small Block Big Block V6 V8	O.E. Left O.E. Right Stamped long slot Stamped long slot Stock stamped type Stock stamped type	1.5 Ratio 1.7 Ratio	Non-adj.; Use RP-3227R push rod Non-adj.; Use RP-3227R push rod 1986 & earlier Exh. 1-3-4-6; Int. 2-5 Exh. 1-4-5-8; Int. 2-3-6-7
R-873 R-875 R-879 R-882 R-952R	Ford AMC Ford Oldsmobile Chevrolet	2.3L V8 Small Block V8 Small Block	Stock type Stock type Stamped Steel Stock type Stamped long slot	1.6 Ratio Rocker/pivot 1.6 Ratio	⁷ 73-78; 2 rockers, 2 pivots, 1 bridge 1978-1/2 to 94; Exc. Cobra 1980 350; 2 rockers, 1 pivot 1986 & earlier
R-1022R R-1023R R-1032 R-1033	Chevrolet Chevrolet Pontiac Ford	Small Block Small Block V8 429, 460	Stamped long slot Stamped long slot O.E. Positive stop Stock type	1.5 Ratio 1.6 Ratio 1.5 Ratio 1.73 Ratio	1987 & up 1987 & up 400, 455; '68-76; Exc. Ram Air IV Adj.
Stamped Steel F	loller Rocker	ſS			
R-1024R R-1025R R-1091R	Chevrolet Chevrolet Ford	Small Block Small Block Small Block	Stamped steel roller Stamped steel roller Stamped steel roller	1.5 Ratio 1.6 Ratio 1.6 Ratio	1986 & earlier 1986 & earlier 1978-1/2 to 94; Exc. Cobra
Aluminum Rolle	r Rocker Arn	ns			
RR-7000R RR-7001R RR-7002R RR-7003R RR-7004R	Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet	Small Block Small Block Small Block Small Block Big Block	Aluminum roller Aluminum roller Aluminum roller Aluminum roller Aluminum roller	1.5 Ratio 1.5 Ratio 1.6 Ratio 1.6 Ratio 1.7 Ratio	Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 7/16 H/D screw-in stud
RR-7007R RR-7008R RR-7009R	Ford Ford Ford Ford	Small Block Small Block 429, 460 Cleveland Small Block	Aluminum roller Aluminum roller Aluminum roller Aluminum roller	1.6 Ratio 1.6 Ratio 1.73 Ratio 1.73 Ratio	3/8 stud; Guide plate req'd 7/16 stud; Guide plate req'd 7/16 stud; Guide plate req'd 7/16 stud; Guide plate req'd Eite i 70 04: Incl. mounting bordword
RR-/013R	Ford	Small Block	Aluminum roller	1.6 Ratio	Fits 79-94; Incl. mounting hardware
RR-7015R	Ford	429, 460	Aluminum roller	1.73 Ratio	Fits '72-93; Incl. mounting hardware
Stainless Steel F	Roller Rocke	rs			
RR-7020R RR-7022R RR-7023R RR-7024R RR-7026R	Chevrolet Chevrolet Chevrolet Chevrolet Ford	Small Block Small Block Small Block Big Block Small Block	Stainless steel roller Stainless steel roller Stainless steel roller Stainless steel roller Stainless steel roller	1.5 Ratio 1.5 Ratio 1.6 Ratio 1.7 Ratio 1.6 Ratio	Requires 3/8 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 7/16 H/D screw-in stud Requires 7/16 H/D screw-in stud 7/16 stud; Guide plate req'd
Miscellaneous V	alvetrain Co	mponents			· · · · ·
RS-612 RS-621 RS-626 MR-1822	Chrysler Ford Chrysler	Big Block 390, 427, 428 Small Block	Rocker shaft Rocker shaft Rocker shaft Pivot ball	3/8 Stud	Not for racing use 4 groove; Anti-gall
MR-1829 MR-1839 MR-1840 MR-1903	AMC AMC Oldsmobile	V8 V8 V8 V8	Pivot Bridge Rocker pivot		1-piece design

Rocker Studs And Adjustment Locks – Numerical Listing



		Rocker End		Head	l End	
P/N	Thread (A)	Thread Length (D)	Height (C)	Thread	Depth (B)	Application
Rocker Adju	ustment I					
MR-1858PL	3/8-24		1.010			For roller rockers; 5/8 hex
MR-1859PL	7/16-20		1.010			For roller rockers; 5/8 hex
MR-1860PL	3/8-24		1.125			For stock style ball pivot rockers; 5/8 hex
MR-1861PL	7/16-20		1.325			For stock style ball pivot rockers;11/16 hex
Rocker Studs						
MR-1752	3/8-24	.775	1.340		1.160	.003 oversize press-in; For stock rockers
MR-1862RS	3/8-24	1.000	1.875	7/16-14	.750	For stock or roller rockers
MR-1863RS	3/8-24	1.000	1.875	7/16-14	.750	For stock or roller rockers; Polylocks
MR-1864RS	7/16-20	1.000	1.875	7/16-14	.750	For stock or roller rockers
MR-1865RS	3/8-24	1.000	1.750	7/16-14	.625	For stock rockers
MR-1866RS	7/16-20	1.000	2.000	7/16-14	1.688	Aluminum head; Exh.; 1.688 thread depth
MR-1867RS	7/16-20	1.000	2.000	7/16-14	.750	For roller rockers
MR-1868RS	7/16-20	1.000	1.875	7/16-14	.625	For roller rockers
MR-1883	10mm		1.550	10mm	.700	For stock rockers
MR-1910RS	7/16-20	1.050	1.940	7/16-14	.725	For roller rockers





Timing Set Gaskets – Fel-Pro Quick Reference

Fel-Pro Timing Cover Gaskets (TCS)

Fel-Pro offers two types of standard timing cover gasket sets. Both sets include all the gaskets needed when removing and replacing the timing cover. One type includes a crankshaft front repair sleeve to seal a grooved hub or shaft – the other for simple replacement of the seal and related gaskets, offers timing cover gaskets without the repair sleeve.

Timing cover gaskets are made of a variety of materials based on the timing cover castings and sealing requirements. Fel-Pro Blue Stripe® is effective for many vehicles, while some require molded-rubber or solid core gaskets with a thicker design to accommodate castings. Fel-Pro also utilizes LEM (Liquid Elastomer Molded) technology to seal some plastic and metal timing covers.

Reference your Fel-Pro catalog or online catalog lookup for complete application information. In addition, the Fel-Pro Performance line offers specialized R.A.C.E.



Sets (Remainder to Assemble Complete Engine -2700) Series) for lower engine work. These sets include the gaskets that when used in conjunction with oil pan gasket sets, provide every gasket needed for complete lower engine service.

Engine	Displacement	Model Years	Standard Set	Set w/ Repair Sleeve	Oil Pan Set
	194	1962-67	TCS 13198	TCS 45264	
	215	1964-65	TCS 13198	TCS 45264	
Chevrolet	230	1963-70	TCS 13198	TCS 45264	
Straight L6	250 (4.1L)	1965-79	TCS 13198	TCS 45264	
	250 (4.1L)	1980-84	TCS 13198-2	TCS 45264	
	292 (4.8L)	1963-89	TCS 13198	TCS 45264	
	200 (3.3L)	1978-79	TCS 45121	TCS 45265	
	229 (3.8L)	1980-84	TCS 45121	TCS 45265	
	262 (4.3L)	1985	TCS 45121	TCS 45265	
	262 (4.3L) VIN B, N, Z	1986-95	TCS 45121	TCS 45265	OS 34502R
Chevrolet	262 (4.3L) VIN W, X, Z (Vortec) w/2.42" OD timing cover seal	1996-2006	TCS 46091		OS 30680R
Small Block V6	262 (4.3L) VIN X (Vortec)	2007-2011	TCS 46100		OS 30786R
	262 (4.3L) VIN W (Vortec)	1992-94	TCS 45947		OS 34502R
	262 (4.3L) VIN W (Vortec) w/Plastic timing cover; w/2.42" OD timing cover seal	1995	TCS 46091		OS 34502R
	262 (4.3L) VIN W (Vortec) w/o Plastic timing cover	1995	TCS 45947		OS 34502R
	262 (4.3L) Turbo	1991-93	TCS 45121	TCS 45265	OS 34502R
	262 (4.3L)	1975-76	TCS 45121	TCS 45265	
	265	1955-57	TCS 5124-1	TCS 45165	
	265 (4.3L) VIN W (LT-1)	1994-96	TCS 45956		OS 34500R
	267 (4.4L)	1979-82	TCS 45121	TCS 45265	
	283	1957-67	TCS 5124-1	TCS 45165	
	293 (4.8L) VIN A, C, V (Vortec)	1999-2011	TCS 45993		OS 30693R
	302	1967-69	TCS 5124-1	TCS 45165	
	305 (5.0L)	1976-85	TCS 45121	TCS 45265	
	305 (5.0L)	1986-95	TCS 45121	TCS 45265	OS 34500R
	305 (5.0L) VIN H, M (Vortec) w/2.42" OD timing cover seal	1996-2002	TCS 46093		OS 34500R
	307	1968-73	TCS 5124-1	TCS 45165	
	325 (5.3L) VIN C (LS-4)	2005-2009	TCS 45993		OS 30693R
	325 (5.3L) VIN B, J, L, M, P, T, Z, 0, 3, 4 (Vortec)	1999-2011	TCS 45993		OS 30693R
	327	1962-69	TCS 5124-1	TCS 45165	
	346 (5.7L) VIN G (LS-1)	1997-2004	TCS 45993		OS 30693R
Chovrolet	346 (5.7L) VIN S (LS-6)	2001-2005	TCS 45993		OS 30693R
	350 (5.7L)	1967-74	TCS 5124-1	TCS 45165	
SITIALI DIUCK VO	350 (5.7L) VIN E, H, J, L, M, P, T, V, W, X, Y, 4, 6, 8	1975-85	TCS 45121	TCS 45265	
	350 (5.7L) VIN K, M, P, 6, 7, 8	1986-95	TCS 45121	TCS 45265	OS 34500R
	350 (5.7L) VIN K, R (Vortec) w/2.42" OD timing cover seal	1996-2002	TCS 46093		OS 34500R
	350 (5.7L) VIN P (LT-1)	1992-93	TCS 45953		OS 34500R
	350 (5.7L) VIN P (LT-1) Corvette, Camaro, Firebird	1994	TCS 45953		OS 34500R
	350 (5.7L) VIN P (LT-1) Caprice, Impala SS, Fleetwood, Roadmaster	1994	TCS 45956		OS 34500R
	350 (5.7L) VIN P (LT-1)	1995-97	TCS 45956		OS 34500R
	350 (5.7L) VIN 5 (LT-4)	1996	TCS 45956		OS 34500R
	364 (6.0L) VIN H (LS-2)	2005-2007	TCS 45993		OS 30693R
	364 (6.0L) VIN 2 (L77)	2011	TCS 45993		OS 30693R
	364 (6.0L) VIN H, J, K, N, U, Y, 5 (Vortec)	1999-2011	TCS 45993		OS 30693R
	378 (6.2L) VIN W (LS-3)	2008-2011	TCS 45993		OS 30693R
	378 (6.2L) VIN J (L99)	2010-2011	TCS 45993		OS 30693R
	378 (6.2L) VIN F, 8 (Vortec)	2007-2011	TCS 45993		OS 30693R
	400 (6.6L)	1970-74	TCS 5124-1	TCS 45165	
	400 (6.6L)	1975-80	TCS 45121	TCS 45265	

Timing Set Gaskets – Fel-Pro Quick Reference



Engine	Displacement	Model Years	Standard Set	Set w/ Repair Sleeve	Oil Pan Set
	366 (6.0L)	1966-90	TCS 45060	TCS 45272	
	366 (6.0L) w/10-bolt timing cover	1991-96	TCS 45060	TCS 45272	OS 34407R
	396	1990-90	TCS 45969	TCS 45055	03 34407R
Chourslat	402	1970-72	TCS 45060	TCS 45272	
Big Block V8	427 (7.0L)	1966-90	TCS 45060	TCS 45272	
Dig Diook Vo	427 (7.0L) w/10-bolt timing cover	1991-96	TCS 45060	TCS 45272	OS 34407R
	454 (7.4L)	1990-98	TCS 45969	TCS 45055	03 34407K
	454 (7.4L)	1991-95	TCS 45060	TCS 45272	OS 34407R
	454 (7.4L) (Vortec)	1996-2000	TCS 45969	TCS 45053	OS 34407R
	181 (3.0L) VIN E	1982-84	TCS 45932		
	181 (3.0L) VIN E w/20-bolt oil pan	1985	TCS 45932		OS 30522R
	196 (3.2L)	1978-79	TCS 45930		
	225 w/Cover stamped 1358076	1964-66	TCS 13001		
	225 W/Cover stamped 1375157	1966-67	TCS 45930		
	231 (3.8L) VIN A w/14-bolt oil pan	1984	TCS 45930		
Buick	231 (3.8L) VIN A w/20-bolt oil pan	1984	TCS 45930		OS 30521R
Small Block V6	231 (3.8L) VIN A	1985-87	TCS 45930		OS 30521R
	231 (3.8L) VIN 3 231 (3.8L) VIN 3 w/14-bolt oil pan	1984	TCS 45932		
	231 (3.8L) VIN 3 w/20-bolt oil pan	1985	TCS 45932		OS 30522R
	231 (3.8L) VIN B, 3	1986-88	TCS 45695		OS 30522R
	231 Turbo (3.8L)	1978-83	TCS 45930		
	231 Turbo (3.8L) w/14-bolt oil pan 231 Turbo (3.8L) w/20-bolt oil pan	1984	TCS 45930		OS 30521R
	231 Turbo (3.8L)	1985-89	TCS 45930		OS 30521R
	252 (4.1L)	1980-85	TCS 45930		
	215	1961-63	TCS 13001		
	215 Turbo	1962-63	TCS 13001		
Buick	300 w/Cover stamped 1375157	1966-67	TCS 45930		
Small Block V8	340 w/Cover stamped 1358076	1966	TCS 13001		
	340 w/Cover stamped 1375157	1966-67	TCS 45930		
	350 (5.7L)	1968-74	TCS 45930		
	260 (4.3L) VIN F. 8	1975-82	TCS 13417	TCS 45270	
	307 (5.0L) VIN Y, 9	1980-90	TCS 13417	TCS 45270	
	330	1964-67	TCS 13417	TCS 45270	
Oldsmobile	350 (5.7L)	1968-74	TCS 13417	TCS 45270	
V8	400	1975-80	TCS 13417	TCS 45270	
	403 (6,6L)	1977-79	TCS 13417	TCS 45270	
	425	1965-67	TCS 13417	TCS 45270	
	455 (7.5L)	1968-76	TCS 13417	TCS 45270	
	205 (4.3L) 287.2 Car	1980-81	TCS 13383-3	1CS 45166	
	288 Truck	1955	TCS 12681-1		
	301 (4.9L)	1977-81	TCS 13383-3	TCS 45166	
	301 Turbo (4.9L)	1980-81	TCS 13383-3	TCS 45166	
	310 326 w/4-stud water numn	1955-56	TCS 12681-1 TCS 12681-2		
	326 w/8-stud water pump	1963-67	TCS 13383-3	TCS 45166	
	336.9	1958-59	TCS 12681-1		
Pontiac	347	1957	TCS 12681-1	TOD 45466	
V8	350 (5.7L) 350 (5.7L) VIN E K M N P V	1968-74	TCS 13383-3	TCS 45166	
	370	1958	TCS 12681-1		
	389 w/4-stud water pump	1959-62	TCS 12681-1		
	389 w/4-stud water pump	1963	TCS 12681-2	TOS AFAGG	
	400 (6 6L)	1963-66	TCS 13383-3	TCS 45166	
	421 w/4-stud water pump	1961-62	TCS 12681-1		
	421 w/4-stud water pump	1963	TCS 12681-2		
	421 w/8-stud water pump	1963-66	TCS 13383-3	TCS 45166	
	455 (7.5L)	1970-76	TCS 13383-3	TCS 45166	
	122 (2.3L) OHC engine	1983-86	TCS 45107		
	122 (2.3L) OHC engine	1987-88	TCS 45107		OS 34211R
	140 (2.3L) OHC engine Car To 02/19/86	1974-86	TCS 45107		05 242440
	140 (2.3L) OHC engine Car From 02/20/66	1980-90	TCS 45107		OS 34211R
Ford	140 (2.3L) OHC engine Car	1993	TCS 45940		OS 30914R
Straight L4	140 (2.3L) OHC engine Truck To 04/08/85	1977-85	TCS 45107		00000
	140 (2.3L) OHC engine Truck From 04/09/85	1985-92	TCS 45107		OS 30545R
	140 Turbo (2.3L) OFIC engine To 02/19/86	1993-97	TCS 45940		US 30914K
	140 Turbo (2.3L) OHC engine From 02/20/86	1986-89	TCS 45107		OS 34211R
	221	1962-63	TCS 45008	TCS 45168	
	255 (4.2L)	1980-82	TCS 45449	TCS 45450	
	289	1962-65	TCS 45008	TCS 45168	
	302 (5.0L)	1968-78	TCS 45008	TCS 45168	
	302 (5.0L) Car	1979-85	TCS 45449	TCS 45450	
Ford	302 (5.0L) Car	1986-95	TCS 45449	TCS 45450	OS 34508R
Small Block V8	302 (5.0L) Truck	1988-2001	TCS 45449	TCS 45450	OS 34508R
	351W (5.8L)	1969-78	TCS 45008	TCS 45168	00010001
	351W (5.8L) Car To 06/28/87	1979-87	TCS 45449	TCS 45450	
	351W (5.8L) Car From 06/29/87	1987-91	TCS 45449	TCS 45450	OS 30616R
	351W (5.8L) Truck From 06/30/87	1979-07	TCS 45449	TCS 45450	OS 30616R
	351W (5.8L) Truck	1994-98	TCS 45449	TCS 45450	OS 34506R



Timing Set Gaskets – Fel-Pro Quick Reference

Engine	Displacement	Model Years	Standard Set	Set w/ Repair Sleeve	Oil Pan Set
	330 M/D (5.4L)	1964-72	TCS 13075-1	TCS 45167	
	330 M/D (5.4L)	19/3-/8	TCS 6688		
	332	1958-60	TCS 11700-1		
	332	1961-63	TCS 13075-1	TCS 45167	
	352	1957-60	TCS 11700-1		
	352	1961-67	TCS 13075-1	TCS 45167	
	359 (5.9L) 360 (5.9L)	19/3-/8	TCS 13075-1	TCS 45167	
Ford	361 Car	1958-59	TCS 11700-1	100 43107	
FE Series V8	361 Light Truck	1964-66	TCS 13075-1	TCS 45167	
	361 (5.9L) M/D and H/D Truck	1964-78	TCS 6688		
	389 (6.4L)	1973-78	TCS 6688	700 45407	
	390 (6.4L) 391 (6.4L)	1961-77	TCS 6688	105 45167	
	406	1962-63	TCS 13075-1	TCS 45167	
	410	1966-67	TCS 13075-1	TCS 45167	
	427 (7.0L)	1963-69	TCS 13075-1	TCS 45167	
Final	428 (7.0L)	1966-70	TCS 13075-1	TCS 45167	
Ford	351C (5.8L)	1970-74	TCS 45061	TCS 45283	
Eerd	351M (5.8L)	1975-82	TCS 45061	TCS 45283	
Modified V8	400 (6 6L)	1971-82	TCS 45061	TCS 45283	
iniodinod vo	370 (6.1L)	1979-87	TCS 45222	100 10200	
	370 (6.1L) To 03/30/89	1988-89	TCS 45880		
	370 (6.1L) From 03/31/89	1989-91	TCS 45880		OS 34600R
	429 (7.0L)	1968-73	TCS 45024	TCS 45279	
Ford	429 (7.0L) 429 (7.0L) To 03/30/89	1979-87	TCS 45222		
Big Block V8	429 (7.0L) From 03/31/89	1989-94	TCS 45880		OS 34600R
	429 (7.0L)	1995-99	TCS 45880		OS 34507R
	460 (7.5L) To 03/11/85	1968-85	TCS 45024	TCS 45279	
	460 (7.5L) From 03/12/85 to 03/30/89	1985-89	TCS 45129	TCS 45881	0.0.0.000
	460 (7.5L) From 03/31/89	1989-94	TCS 45129	TCS 45881	OS 34600R
	281 SOHC (4.6L) Car VIN W	1991-95	TCS 45869	103 43881	03 343071
	281 SOHC (4.6L) Car VIN V, W, 9	1996-2011	TCS 45869-1		
	281 SOHC (4.6L) Car VIN X, 6	1996-98	TCS 45869-1		
	281 SOHC (4.6L) Car VIN X, 6	1999-2004	TCS 45869-2		
	281 SOHC (4.6L) Car VIN H	2005-2010	TCS 46072-1		
	281 DOHC (4.6L) Car VIN R, V 281 DOHC Supercharged (4.6L) Car VIN Y	2003-2004	TCS 45980		
	281 SOHC (4.6L) Truck VIN W, 6	1997-98	TCS 45869-1		
	281 SOHC (4.6L) Truck VIN W, 6	1999-2001	TCS 45869-2		
	281 SOHC (4.6L) Truck VIN W, 6 Except Explorer/Mountaineer	2002-2003	TCS 45869-2		
Ford	281 SOHC (4.6L) Truck VIN W Explorer/Mountaineer To 02/22/04	2002-2004	TCS 46064		
Modular V8	281 SOHC (4.6L) Truck VIN W E150/E250	2004	TCS 45869-2		
	281 SOHC (4.6L) Truck VIN W Explorer/Mountaineer From 02/23/04	2004-2005	TCS 46065		
	281 SOHC (4.6L) Truck VIN V, W E150/E250/F150/F250	2005-2012	TCS 45869-1		
	281 SOHC (4.6L) Truck VIN 8	2006-2010	TCS 46096		
	281 DOHC (4.6L) Truck VIN A, H	2003-2005	TCS 45980		
	330 SOHC (5.4L) Truck VIN L, M, Z	1997-98	TCS 45982-1		
	330 SOHC (5.4L) Truck VIN V, 5	2004-2012	TCS 46078		
	330 SOHC Supercharged (5.4L) Truck VIN 3	1999-2004	TCS 45982-1		
	330 DOHC (5.4L) Truck VIN A, R	1999-2002	TCS 46010		
	330 DOHC (5.4L) Truck VIN A, R	2003-2005	TCS 46010-1	TCS 45790	
Chrysler	239 (3.9L)	1992-96	TCS 45952	TCS 45789	OS 34503R
Small Block V6	239 (3.9L)	1997-2003	TCS 45996	TCS 45999	OS 34503R
	270 (Dodge/Plymouth) Car	1956	TCS 6443-2		
	270 (Dodge/Plymouth) Truck (VT400 Series)	1955-56	TCS 6443-2		
	273	1964-69	TCS 6563-1	TCS 45284	
	301 (Plymouth)	1900-07	TCS 6563-1		
	303 (Plymouth)	1956-57	TCS 6563-1		
	313 (Plymouth)	1957-64	TCS 6563-1		
	315 (Dodge)	1956-59	TCS 6443-2		
	318 (5.2L)	1957-91	TCS 6563-1	TCS 45284	00.044000
Chrysler	318 (5.2L) 318 (5.2L)	1992-96	TCS 45952	TCS 45999	OS 34408R
Small Block V8	325 (Dodge)	1957-58	TCS 6443-2	100 40000	000440010
	326 (Dodge)	1959	TCS 6563-1	TCS 45284	
	331 (Chrysler) Car	1956	TCS 6443-2		
	340 252 (Dodgo) Truck (VT400 Series)	1968-73	TCS 6563-1	ICS 45284	
	353 (Douge) Truck (V1400 Series)	1955-56	TCS 6443-2		
	360 (5.9L)	1971-91	TCS 6563-1	TCS 45284	
	360 (5.9L)	1992-96	TCS 45952	TCS 45949	OS 34409R
	360 (5.9L)	1997-2003	TCS 45996	TCS 45999	OS 34409R
	392 (Chrysler)	1957-58	TCS 6443-2		
	361	1958_77	TCS 12460-2		
Chryselen	383	1959-71	TCS 12460-2		
Big Block VP	400 (6.6L)	1971-80	TCS 12460-2		
DIG DIOCK VO	413	1959-77	TCS 12460-2		
	420	1963-71	TCS 12460-2		
		1000-00	100 12400-2		





Selection Guidelines

Specifically Engineered for Specific Performance

Speed-Pro offers a broad assortment of high performance timing sets engineered to meet your engine-building needs. Each set includes a high quality timing chain selected to meet each engine's particular design requirements, plus precision made-in-the USA sprockets that mesh precisely with the chain for optimum performance and long life. Sets are available in three levels to meet the widest variety of needs, from street performance to hardcore racer:

- Competition Roller Series 3600
- Billet Roller Series 3500
- Performance Roller Series 1100 See which one is right for you.

RACE READY – Competition Roller Timing Sets (3600)



Speed-Pro Competition timing sets live up to their name. Both sprockets are machined from premium billet steel on state-of-the art CNC equipment, then induction hardened and oil-quenched using a multi-stage heat treat process. The roller chain offers superior strength with full roller action. Side plates are cut and shaved from high-strength steel and heat-treated for maximum fatigue resistance. The .250" rollers are "cold rolled" and hardened to exacting standards, increasing load and RPM capabilities. FEATURES

Induction heat-treated, billet steel sprockets

- 9-keyway billet steel crank sprocket allows +/- 8°, adjustability in 2° increments
- Premium roller chain with .250" diameter rollers
- Hand matched to qualify center distance and control run-out
- Made in USA

PERFECT FOR THE WEEKEND RACER – Billet Roller Timing Sets (3500)



Speed-Pro Billet Roller timing sets offer greater advantages to the value-driven racer. Upgraded cam sprockets offer the strength of billet steel, plus critical functionality features. Combining billet steel durability, a 9-keyway inductionhardened crank sprocket, a .250" roller chain, and precise CNC machining, these sets provide quality and adjustability unmatched in their class.

FEATURES

- Billet steel cam sprocket
- Induction heat-treated, billet steel crank sprocket
- 9 keyways allow +/- 8 degrees
- · Adjustability in 2 crank degree increments
- Roller chain with .250" diameter rollers
- Made in USA

PERFORMANCE AND VALUE – Performance Roller Timing Sets (1100)



Speed-Pro Performance timing sets feature cast-iron cam sprockets, 3-keyway induction-hardened billet steel crank sprockets, .250[°] roller chains and CNC-machined precision. The result is unbeatable performance and value.

FEATURES

- Cast-iron cam sprocket
- · Induction heat-treated, billet steel crank sprocket
- 3-keyways allow +/- 4 degrees adjustability in 2 crank degree increments
- Roller chain with .250["] diameter rollers
- · Made in USA



Timing Products – Numerical Listing

P/N	Mfgr.	Engine	Series	Notes	Features
221-2528S	Chevrolet	230, 250 L6	Timing Gear Set	2 pc. Set; Incl. cam & crank gear; Single roller	1 keyway
222-14	Ford	2.3L L4	Timing Belt		
223-323	Buick	V6 231, 252	Timing Components	Crank Sprocket; Single roller	1 keyway
222-359	Buick	V6 231, 252	Timing Chain	Single roller	
KT3-359S	Buick	350	3 Piece Set	Incl. cam & crank sprockets and chain; Single roller	1 keyway
223-610	Buick	V6 231, 252	Timing Components	Cam sprocket	
CTS-1100NR	Chevrolet	V6; Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1100R	Chevrolet	V6; Small Block	Performance Roller; .250" Double Roller	When depleted use CTS-1100NR	3 keyway
CTS-1103R	Chrysler	Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1104R	Chrysler	Big Block	Performance Roller; .250" Double Roller	1 bolt cam	3 keyway
CTS-1108R	Ford	352, 360, 390, 427, 428	Performance Roller; .250" Double Roller		3 keyway
CTS-1110NR	Chevrolet	Big Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1110R	Chevrolet	Big Block	Performance Roller; .250" Double Roller	When depleted use CTS-1110NR	3 keyway
CTS-1110TR	Chevrolet	Big Block	Performance Roller; .250" Double Roller	Incl. roller thrust brg.	3 keyway
CTS-1111R	Ford	Small Block	Performance Roller; .250" Double Roller	When depleted use CTS-1135NR	3 keyway
CTS-1112R	Pontiac	V8	Performance Roller; .250" Double Roller	·	3 keyway
CTS-1113R	Oldsmobile	V8	Performance Roller; .250" Double Roller		3 keyway
CTS-1119R	Ford	Small Block	Performance Roller; .250" Double Roller	When depleted use CTS-1138NR	3 keyway
CTS-1121R	Ford	Cleveland/Modified	Performance Roller; .250" Double Roller		3 keyway
CTS-1122R	Ford	429, 460	Performance Roller; .250" Double Roller		3 keyway
CTS-1125R	Chrysler	Big Block	Performance Roller; .250" Double Roller	3 bolt cam	3 keyway
CTS-1132R	Buick	V6; Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1135NR	Ford	Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1138NR	Ford	Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-1145R	Chevrolet	V6; Small Block	Performance Roller; .250" Double Roller		3 keyway
CTS-3500TX9R	Chevrolet	V6; Small Block	Billet Roller; .250" Double Roller	Incl. roller thrust brg.	9 keyway
CTS-3503X9R	Chrysler	Small Block	Billet Roller; .250" Double Roller	•	9 keyway
CTS-3510TX9R	Chevrolet	Big Block	Billet Roller; .250" Double Roller	Incl. roller thrust brg.	9 keyway
CTS-3512X9R	Pontiac	V8	Billet Roller; .250" Double Roller	•	9 keyway
CTS-3513X9R	Oldsmobile	V8	Billet Roller; .250" Double Roller		9 keyway
CTS-3521X9R	Ford	Cleveland/Modified	Billet Roller; .250" Double Roller		9 keyway
CTS-3522X9R	Ford	429, 460	Billet Roller; .250" Double Roller		9 keyway
CTS-3525TX9R	Chrysler	Big Block	Billet Roller; .250" Double Roller	3 bolt cam; Incl. roller thrust brg.	9 Keyway
CTS-3532X9R	Buick	V6; Small Block	Billet Roller; .250" Double Roller	-	9 keyway
CTS-3535X9R	Ford	Small Block	Billet Roller; .250" Double Roller		9 keyway
CTS-3545X9R	Chevrolet	V6; Small Block	Billet Roller; .250" Double Roller		9 keyway
CTS-3600TX9R	Chevrolet	V6; Small Block	Competition Roller; Premium .250" Double Roller	3 bolt cam; Incl. roller thrust brg.	9 keyway
CTS-3603X9R	Chrysler	Small Block	Competition Roller; Premium .250" Double Roller	· · · · · · · · · · · · · · · · · · ·	9 keyway
CTS-3608X9R	Ford	352, 360, 390, 427, 428	Competition Roller; Premium .250" Double Roller		9 keyway
CTS-3610TX9R	Chevrolet	Big Block	Competition Roller; Premium .250" Double Roller	Incl. roller thrust brg.	9 keyway
CTS-3612X9R	Pontiac	V8	Competition Roller; Premium .250" Double Roller	•	9 keyway
CTS-3621X9R	Ford	Cleveland/Modified	Competition Roller; Premium .250" Double Roller		9 keyway
CTS-3622X9R	Ford	429, 460	Competition Roller; Premium .250" Double Roller		9 keyway
CTS-3625TX9R	Chrysler	Big Block	Competition Roller; Premium .250" Double Roller	3 bolt cam; Incl. roller thrust brg.	9 Keyway
CTS-3635X9R	Ford	Small Block	Competition Roller; Premium .250" Double Roller	-	9 keyway
CTS-3645X9R	Chevrolet	V6; Small Block	Competition Roller; Premium .250" Double Roller		9 keyway
CTS-3676X9R	Ford	Modular 4V	Competition Roller; Premium .250" Double Roller		9 keyway

VALVE SPRINGS SPEED PRO



Selection Guidelines

Speed-Pro offers a vast array of high performance valve springs, specifically designed to meet most high performance and racing requirements. Our valve spring line covers the full spectrum – from simple upgrades to the original equipment parts, to maximum effort roller cam springs with nearly 1000 pounds of open pressure.

Speed-Pro valve springs are manufactured from premium quality, oil tempered chrome silicon valve spring wire. Each spring is coiled to precise dimensions, the ends are ground for squareness, and they are shot peened to eliminate surface flaws and to provide added stress relief. The springs are then heat set to minimize load loss, and are pressed "solid" once before checking for correct open and closed pressures.

The selection of the correct valve spring is crucial to attaining satisfactory engine performance. An engine builder needs to balance the need for adequate spring pressure with the dimensional limitations inherent in a given application. The single greatest danger of incorrect spring selection is "coil bind". An absolute minimum of .060" in spring clearance must be maintained at maximum valve lift. If the spring goes into bind it is guaranteed that component breakage will result.

The easiest ways to increase available spring travel are through taller installed height, fewer coil windings, or thinner spring wire. Since a thinner wire would lower pressure (the opposite of what most racers want), the trend is to increase the spring diameter – which allows fewer windings of thicker wire. Large diameter springs mandate the use of matching retainers, and may require cylinder head machining. Taller installed heights are achieved by using longer valves, machining deeper spring pockets in the cylinder heads, and by altering retainer designs.

Speed-Pro offers a variety of multiple spring combinations – single, single with dampener, double, double with dampener, and triple. The double and triple springs deliver increased spring pressure within the same dimensional envelope. Spring dampeners are wound from flat wire, in the opposite direction of the spring itself. The dampeners are used to control valve spring harmonics – they do not significantly alter working pressures. When using multiple spring combinations, it is important to check the inner spring for coil bind potential. Multiple spring retainers normally index the inner spring to a .100" step, thus the inner may reach coil bind before the outer spring does.



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Valve Springs – Numerical Listing

P/N	Туре	Position	Outside Diameter	Max Lift	Closed Pressure Lbs. Height			Open Pressure Lbs. Height			Coil Bind Height	Approx. Rate/inch
Performance Valve Springs												
VS-661	S/D		1.437	.562	89	@	1.77	233	@	1.38	1.208	168
VS-675	S/D		1.494	.520	100	@	1.86	236	@	1.36	1.280	272
VS-677	S		1.238	.490	76	@	1.70	194	@	1.25	1.150	262
VS-678	S/D		1.494	.490	91	@	1.65	231	@	1.22	1.100	326
VS-708	D	Assembly	1.508	.540	95	@	1.88	309	@	1.38	1.280	428
		Inner Outer			26 69	@ @	1.78 1.88	81 228	@ @	1.28		110 318
VS-717	S/D	Outor	1 522	490	87	@	1.82	299	@	1.32	1 270	424
VS-718	S		1.420	. 470	76	@	1.78	215	@	1.33	1.250	322
VS-739R	S/D		1.264	.480	104	@	1.70	277	@	1.21	1.160	365
VS-741R	D	Assembly	1.382	.593	127	@	1.75	288	@	1.20	1.097	307
		Inner			42	@	1.65	108	@	1.10		125
		Outer			85	@	1.75	180	@	1.20		182
VS-857	S		1.354	.420	71	@	1.56	159	@	1.16	1.080	230
VS-865R	S/D		1.522	.490	109	@	1.82	323	@	1.32	1.270	450
VS-890R	D	Assembly	1.500	.525	43 14	@	2.06	202 78	@	1.19	0.935	224
		Outer			29	@	2.06	124	@	1.19		
VS-892R	S/D	Assembly	1.536	.677	130	@	1.94	287	@	1.38	1.200	279
VS-896R	D	Assembly	1.444	.500	107	@	1.67	282	@	1.27	1.110	424
		Inner			31	@	1.57	102	@	1.11		157
V0.010	0	Outer	4 404	450	76	@	1.67	180	@	1.27	4 000	268
VS-919	5	Assembly	1.404	.450	/9	@	1.60	209	@	1.15	1.090	304
V5-1520	D/D	Assembly	1.549	.640	40	@	1.90	448 133	@	1.25	1.200	440 151
		Outer			137	@	1.90	315	@	1.25		289
VS-1523	D/D	Assembly	1.532	.665	174	@	1.90	445	@	1.25	1.175	440
		Inner			22 152	@	1.90	111 334	@	1.25	.750	145 295
VS-1524	D/D	Assembly	1 555	560	152	@	1.88	491	@	1.25	1 130	480
	0,0	Inner	1.000	.000	47	@	1.88	157	@	1.28	1.100	193
		Outer			105	@	1.88	334	@	1.25		287
VS-1526	D/D	Assembly	1.553	.560	126	@	1.88	357	@	1.28	1.180	408
		Outer			29 97	@	1.88	233	@	1.28		240
VS-1554	S/D		1.513		95	@	1.80	235	@	1.37	1.080	344
VS-1555	S/D		1.465		95	@	1.85	257	@	1.25	1.195	280
VS-1580	D	Assembly	1.449	.520	115	@	1.82	310	@	1.30	1.240	404
		Inner			40	@	1.75	110	@	1.23		131
VS-1591	D/D	Accombly	1 //6	500	117	@	1.72	200	@	1.20	1 220	213
V3-1301	0/0	Inner	1.440	.590	35	@	1.88	113	@	1.32	1.220	137
		Outer			82	@	1.88	212	@	1.32		230
VS-1582	S/D		1.359	.430	78	@	1.89	242	@	1.45	1.400	373
VS-1589	D/D	Assembly	1.543	.665	145	@	1.85	407	@	1.30	1.125	418
		Outer			44 101	@ @	1.77	154 253	@ @	1.12		177 241
VS-1590	D/D	Assembly	1.456	.560	117	@	1.69	360	@	1.09	1.070	413
		Inner			36	@	1.59	119	@	1.05		155
		Outer			81	@	1.69	241	@	1.09		258
VS-1591	S	Inner	.978	.640	38	@	1.59	133	@	.99	.890	162
VS-1604	D/D	Assembly	1.532	.690	148	@	1.90	414	@	1.25	1.150	425
		Outer			99	@	1.90	286	@	1.25		298
VS-1605R	D/D	Assembly	1.470	.620	136	@	1.85	377	@	1.25	1.170	411
		Inner			41	@	1.78	120	@	1.15		133
		Outer			95	@	1.85	257	@	1.25		2/8

Valve Springs – Numerical Listing



P/N	Туре	Position	Outside Diameter	Max Lift	Clos Lbs.	ed Pres	ssure Height	Oper Lbs.	n Pres	sure Height	Coil Bind Height	Approx. Rate/inch
Performance Valve Springs - cont'd.												
VS-1606	D	Assembly Inner Outer	1.406	.540	86 27 59	@ @ @	1.60 1.58 1.60	277 125 152	@ @ @	1.06 1.04 1.06	1.000	326 148 178
VS-1612R	D/D	Assembly Inner Outer	1.639	.740	176 26 150	000000000000000000000000000000000000000	1.95 1.95 1.95	562 153 409	@ @	1.25 1.25 1.25	1.100	582 191 391
VS-1618R	S/D		1.456	.560	81	@	1.69	241	@	1.09	1.070	267
Competition Series- H-11 Tool Steel Springs For Racing												
VS-1613R	D/D	Assembly Inner Outer	1.650	.760	209 51 158	@ @ @	1.95 1.95 1.95	644 181 463	@ @ @	1.20 1.20 1.20	1.080	612 183 429
Competition Series Pro Alloy Springs For Professional Racing												
VS-2000R	Т	Assembly Inner Outer	1.665		250 82 125	@ @ @	2.05 1.95 2.05	770 236 435	@ @ @	1.30 1.15 1.35	1.145	
VS-2001R	Т	Assembly Inner Outer	1.665		290 92 150	@ @ @	2.07 1.97 2.07	835 245 455	@ @ @	1.27 1.17 1.27	1.145	




Selection Guidelines

Speed-Pro offers a wide variety of high performance valvetrain components, each being precision manufactured to meet the unique demands of performance engine assembly. These components are carefully designed to complement Speed-Pro valves, valve springs, and rocker arms – assembled together as a complete performance valvetrain.

Speed-Pro Valve Spring Retainers



These high strength retainers are precision machined from 4140 chrome-moly steel. Designed to replace marginal strength, stamped steel O.E. parts, they will handle the RPM and spring pressures common in racing applications. We offer a variety of diameter, lock degree, and step configurations, allowing the engine builder to tailor the valvetrain combination to the particular needs of each engine.



Available in 4140 stamped steel, or in ultra-high strength machined chrome-moly, Speed-Pro valve locks deliver positive retainer retention and consistent installed height. We have valve locks in both 7 and 10 degree designs, for all popular valve diameters. The 7 degree configuration matches both O.E. and popular aftermarket retainers, and delivers a strong, positive locking pressure. The 10 degree versions are very popular in high spring pressure applications due to easier disassembly and a wider retainer contact surface.

Speed-Pro Rocker Arm Studs



Machined from heat treated, high strength 4130 alloy, these premium quality rocker studs are perfect for upgrading O.E. press-in components, or for servicing aftermarket heads. They are available in a wide variety of lengths and diameters to accommodate most needs – including extra length versions for use with stud girdles and adjustment locks. They are designed with a precisely machined underhead area to positively locate a guideplate where required.

Speed-Pro Spring Seats



These hardened steel spring seats serve multiple purposes. The raised lip (either inner or outer) positively locates the valve spring for greater valvetrain stability. They also serve as shims to establish proper installed height. In addition, we offer an extra-thick spring seat to replace the valve rotators found on certain big block Chevrolet applications.

Speed-Pro Spring Shims

Intended to adjust valve spring installed height, these shims are a mandatory part of professional cylinder head assembly. They are available in a broad array of inner and outer diameters, in thicknesses of .015", .030", and .060". These premium quality shims are manufactured from hardened steel, and will withstand both high temperatures and high spring pressures.

Valve Guides - Manganese Bronze – Numerical Listing



P/N	Stem Dia.	Length	Guide Dia.	Seal Dia.	Lower Dia.	Notes
VG-5050	.373	2.500	.562	.531		Flanged; Pre cut for ST-2019R seal
VG-6001	.343	3.125	.373			Guide liner; Requires machining
VG-6002	.375	3.125	.405			Guide liner; Requires machining
VG-7000R	.312	1.875	.439			Straight; 5/16 stem; Cut-to-length
VG-7002R	.344	2.375	.502			Straight; Cut-to-length
VG-7004R	.373	2.375	.502			Straight; Cut-to-length
VG-7005R	.344	2.500	.502			Straight; Cut-to-length
VG-7006R	.344	2.875	.502			Straight; Cut-to-length
VG-7007R	.373	2.625	.502			Straight; Cut-to-length
VG-7501R	.342	2.600	.502	.531		Flanged; Cut-to-length; Pre-cut for ST-2003 seal
VG-7503R	.373	2.500	.502	.531		Flanged; Cut-to-length; Pre-cut for ST-2019R seal
VG-7504R	.373	2.562	.620	.615	.617	Stepped; Exh.; For big block Chevy iron heads
VG-7505R	.374	2.421	.625	.610		Stepped; Replacement; Big block Chevy heads

Valve Locks – Numerical Listing

		Hume		9		
P/N	Stem Dia.	Degree	Groove	Material	Notes	
VK-115R	11/32	7	1 groove	Steel		
VK-315R	11/32	7	1 groove	Machined Chrome Moly		
VK-415R	11/32	7	1 groove	Machined Chrome Moly	Jumbo - large O.D. for 3/8 retainer	
VK-205R	11/32	7	4 groove	Chrome Moly		
VK-274	11/32	10	1 groove	Machined Chrome Moly		
VK-138R	3/8	7	1 groove	Steel		
VK-97	3/8	7	1 wide groove	Steel		
VK-338R	3/8	7	1 groove	Machined Chrome Moly		
VK-66R	3/8	7	2 groove	Chrome Moly		
VK-204	3/8	7	3 groove	Chrome Moly		
VK-174R	3/8	7	4 groove	Chrome Moly		
VK-275	3/8	10	1 groove	Machined Chrome Moly		
VK-144R	5/16	7	1 groove	Steel		
VK-216	5/16	7	1 groove	Chrome Moly		
VK-225	5/16	7	4 groove	Chrome Moly		

Valve Spring Inserts – Numerical Listing

		-	
0.D.	I.D.	Thickness	P/N
1.250	.812	.015	259-203CHP
1.250	.812	.030	259-203BHP
1.250	.812	.060	259-203AHP
1.360	1.000	.015	259-102CHP
1.360	1.000	.030	259-102BHP
1.360	1.000	.060	259-102AHP
1.437	.645	.015	259-306CHP
1.437	.645	.030	259-306BHP
1.437	.645	.060	259-306AHP
1.437	.785	.015	259-305CHP
1.437	.785	.030	259-305BHP
1.437	.785	.060	259-305AHP
1.480	.703	.015	259-303CHP
1.480	.703	.030	259-303BHP
1.480	.703	.060	259-303AHP
1.500	1.031	.015	259-103CHP
1.500	1.031	.030	259-103BHP
1.500	1.031	.060	259-103AHP





Valve Spring Retainers – Numerical Listing

P/N	Outside Dia.	Inner Spring Dia.	Step Height	Valve Stem Dia.	Gauge Dia.	Spring Seat to Gauge Dia.	Installed Height	Lock Degree	Material
VSR-7023R	1.240	.875	.125	.3438	.490			7	Chrome Moly
VSR-7000R	1.250	0.778	.125	.343			+.050	7	Chrome Moly
VSR-7008R	1.340	1.000	.125	.344	.4795		+.025	7	Chrome Moly
VSR-7018R	1.370	1.060	.020	.344	.4795			7	Chrome Moly
VSR-7017R	1.370	1.066	.100	.344	.4795	010		7	Chrome Moly
VSR-7014R	1.370	1.075	.080	.344	.4795	.200		7	Chrome Moly
VSR-7015R	1.370	1.066	.100	.375	.5095	.018		7	Chrome Moly
VSR-7022R	1.400	1.060		.375				10	Chrome Moly
VSR-7007R	1.400	1.025	.125	.375				7	Chrome Moly
VSR-7006R	1.400	1.025	.125	.375			+.080	7	Chrome Moly
VSR-7002R	1.440	1.060	.125	.375				7	Chrome Moly
VSR-7020	1.494	1.120	.095	.462				10	Chrome Moly
VSR-7003R	1.500	1.070	.125	.375				7	Chrome Moly

Retainer Tech Tips:

Retainers can be used to vary spring installed heights when extra clearance is required. Some of our retainers, such as VSR 7000R, are designed to give a specific additional .050 or so. Others can be used for the same purpose by comparing the spring seat to gauge diameter measurement. Example - VSR7014R will give an additional .062 in installed height compared to VSR7015R.



. . -. . . - -Valv

Valve Sp	ring Sea	ats – N	PR			
P/N	I.D. (A)	Seat I.D. (B)	Seat O.D. (C)	Height (D)	Thickness (E)	Notes
VSS-7500R	0.625	1.440	1.55	0.18	0.07	
VSS-7501R	0.625	1.565	1.68	0.22	0.07	
VSS-7502R	0.625	1.510	1.63	0.22	0.07	
VSS-7504R	0.625	1.500	1.75	0.50	0.30	Replaces rotators on Big Block Chevrolets

Valve Stem Seals - Numerical Listing

			-
P/N	Stem Dia.	Guide Dia.	Notes
ST-2001	.341	.562	Rubber/PTFE insert; Installation requires valve guide machining
ST-2002	.371	.625	Rubber/PTFE insert; no cutter required
ST-2003	.341	.531	Rubber/PTFE insert; Installation requires valve guide machining
ST-2004	.371	.562	Rubber/PTFE insert; Installation requires valve guide machining
ST-2005	.308	.500	Rubber/PTFE insert; Installation requires valve guide machining
ST-2011	.372	.594	Rubber/PTFE insert; no cutter required
ST-2012	.341	.505	Rubber/PTFE insert; Installation requires valve guide machining
ST-2014	.371	.500	Rubber/PTFE insert; Installation requires valve guide machining
ST-2015	.315	.427	Rubber/PTFE insert; Installation requires valve guide machining
ST-2017R	.312	.531	PTFE
ST-2018R	.341	.531	PTFE; Installation requires valve guide machining
ST-2019R	.372	.531	PTFE; Installation requires valve guide machining
ST-2020R	.343	.500	PTFE; Installation requires valve guide machining
ST-2021R	.375	.500	PTFE; Installation requires valve guide machining
ST-2022R	.312	.500	PTFE; Installation requires valve guide machining

Valve Train Miscellaneous – Numerical Listing

P/N	Mfgr.	Engine	Description	Material	Notes
Guide Plat					
MR-1891	Chevrolet	Small Block	Stepped	Hardened Stamped Steel	For 5/16 pushrods
MR-1892	Chevrolet	Small Block	Stepped	Hardened Stamped Steel	For 3/8 pushrods
MR-1893	Chevrolet	Big Block	Formed	Hardened Stamped Steel	For 3/8 pushrods
MR-1894	Chevrolet	Big Block	Formed	Hardened Stamped Steel	For 7/16 pushrods
MR-1896	Chevrolet	Small Block	Flat	Hardened Stamped Steel	For 5/16 pushrods
MR-1897	Ford	Small Block	Flat	Hardened Stamped Steel	For 5/16 pushrods
MR-1930	Chevrolet	Small Block	Flat	Hardened Stamped Steel	For 3/8 pushrods
Thrust Bu	tton				
MR-1870	Chevrolet	Big Block	Thrust Button	Bronze	
MR-1874	Buick	V6	Thrust Button	Stock Type	



PEED





Mfgr.	CID	Casting or ID#	Application	Chamber CC's	Notes
AMC	290	3178453	1966-68	54.4	Rectangular exhaust
AMC	290	3178453	1969	52.2	Rectangular exhaust
AMC	304	3199517	1970	52.2	Dog Leg exhaust
AMC	304 304	3213947 3199517	1972 Farly 1971	58.9 52.2	Dog Leg exhaust
AMC	304	3212990	Late 1971	58.9	Dog Leg exhaust
AMC	343	3188558	1967-68	52.9	Rectangular exhaust
AMC	343	3188558	1969	50.6	Rectangular exhaust
AMC	360	3213948	1972	57.9	Dog Leg exhaust
AMC	360	3196291	Early 1970	50.6	Dog Leg exhaust
AMC	360	3196291	Early 1971	50.6	Dog Leg exhaust
AMC	360	3190291	Late 1970	50.6 57.0	Dog Leg exhaust
AMC	390	3188558	1968-69	50.6	Bectangular exhaust
AMC	390	3188558	1969 SS AMX	58	Rectangular exhaust
AMC	390	3196291	1970 Rebel Machine	50.6	Dog Leg exhaust
AMC	390	3196291	Early 1970	50.6	Dog Leg exhaust
AMC	390	3196291	Late 1970	50.6	Dog Leg exhaust
AMC	401	3213948	19/2 Forly 1071	57.9	Dog Leg exhaust
ANIC	401	2010002		57.0	Dog Log exhaust
Chevrolet	Small Block	041	Late 1971	57.9 64	Triangle
Chevrolet	Small Block	10088113		58	Thanglo
Chevrolet	Small Block	14011034		64	
Chevrolet	Small Block	186		64	Double Hump
Chevrolet	Small Block	3991492		64	
Chevrolet	Small Block	441		73	
Chevrolet	Small Block	44 I X 461		80 64	Double Hump
Chevrolet	Small Block	461X		64	Double Hump
Chevrolet	Small Block	462		64	Double Hump
Chevrolet	Small Block	462624		76	· · · · · ·
Chevrolet	Small Block	493		76	
Chevrolet	Small Block	997		76	
Chevrolet	Small Block	624	1971-72 LT-1, 1973-79 L-82	76	
Chevrolet	Small Block	113	1986 + Corvette Aluminum	58 76	
Chevrolet	Small Block	1031	AFR	56-74	AFR 195 I T4
Chevrolet	Small Block	1034	AFR	68	AFR 195
Chevrolet	Small Block	1036	AFR	74	AFR 195
Chevrolet	Small Block	1038	AFR	74	AFR 195
Chevrolet	Small Block	1039	AFR	56-74	AFR 195 LT4
Chevrolet	Small Block	1040		68	AFR 195
Chevrolet	Small Block	1050	AFR	76	AFR 210 AFR 210
Chevrolet	Small Block	1052	AFR	76	AFR 210
Chevrolet	Small Block	1054	AFR	76	AFR 210
Chevrolet	Small Block	1055	AFR	76	AFR 210, spread port exhaust
Chevrolet	Small Block	1056	AFR	76	AFR 210, spread port exhaust
Chevrolet	Small Block	1057	AFR	76	AFR 210 L14
Chevrolet	Small Block	1060	AFR	76	AFR 220
Chevrolet	Small Block	1061	AFR	76	AFR 220
Chevrolet	Small Block	1065	AFR	76	AFR 220, spread port exhaust
Chevrolet	Small Block	1066	AFR	76	AFR 220 LT4
Chevrolet	Small Block	1067	AFR	76	AFR 227
Chevrolet	Small Block	1068	AFR	76	AFR 227
Chevrolet	Small Block	1075		76 76	AFR 227, spread port exhaust
Chevrolet	Small Block	1091	AFR	74	AFR 195
Chevrolet	Small Block	1094	AFR	74	AFR 195
Chevrolet	Small Block	1100	AFR	76	AFR 210
Chevrolet	Small Block	1101	AFR	76	AFR 210 LT4
Chevrolet	Small Block	1102	AFR	76	AFR 210
Chevrolet	Small Block	1104		/b 76	AFR 210 AFR 210 eproved port exhaust
Chevrolet	Small Block	1110	AFR	76	AFR 220
Chevrolet	Small Block	1115	AFR	76	AFR 220, spread port exhaust
Chevrolet	Small Block	1116	AFR	76	AFR 220
Chevrolet	Small Block	1120	AFR	76	AFR 227
Chevrolet	Small Block	1121	AFR	76	AFR 227
Chevrolet	Small Block	1125	AFR	76	AFR 227, spread port exhaust



Mfar		Costing or ID#	Application	Chambor CC'a	Notos
Wigi.			Application		
Chevrolet	Small Block	1120		70	AFR 227 L14 AFR 220 LT4
Chevrolet	Small Block	1173	AFR	76	ΔFR 210 L T4
Chevrolet	Small Block	1177	AFR	76	AFR 220 T4
Chevrolet	Small Block	1190	AFR	76	AFR 227
Chevrolet	Small Block	1195	AFR	76	AFR 227, spread port exhaust
Chevrolet	Small Block	1196	AFR	76	AFR 227 LT4
Chevrolet	Small Block	1197	AFR	76	AFR 215 LT4 raised runner
Chevrolet	Small Block	1204	AFR	76	AFR 215
Chevrolet	Small Block	1205	AFR	76	AFR 215, spread port exhaust
Chevrolet	Small Block	1206	AFR	76	AFR 215
Chevrolet	Small Block	1207	AFR	76	AFR 215, spread port exhaust
Chevrolet	Small Block	1208	AFR	76	AFR 215
Chevrolet	Small Block	1209	AFR	76	AFR 215, spread port exhaust
Chevrolet	Small Block	1210	AFR	/6	AFR 215 L14 raised runner
Chevrolet	Small Block	1212		/b	AFR 215 L14 raised runner
Chevrolet	Small Block	1510		00	
Chevrolet	Small Block	1520		76	AFR 205 LST AFR 205 LST
Chevrolet	Small Block	1540	AFR	76	AFR 205 LS1
Chevrolet	Small Block	1550	AFR	64	AFR 205 L S1
Chevrolet	Small Block	1550-1	AFR	66	AFR 205 L S1
Chevrolet	Small Block	1560	AFR	64	AFB 205 S1
Chevrolet	Small Block	1560-1	AFR	66	AFR 205 LS1
Chevrolet	Small Block	1570	AFR	74	AFR 205 LS1
Chevrolet	Small Block	1570-1	AFR	76	AFR 205 LS1
Chevrolet	Small Block	1580	AFR	74	AFR 205 LS1
Chevrolet	Small Block	1580-1	AFR	76	AFR 205 LS1
Chevrolet	Small Block	1610	AFR	66	AFR 225 LS1
Chevrolet	Small Block	1620	AFR	66	AFR 225 LS1
Chevrolet	Small Block	1630	AFR	76	AFR 225 LS1
Chevrolet	Small Block	1640	AFR	76	AFR 225 LS1
Chevrolet	Small Block	1650	AFR	64	AFR 225 LS1
Chevrolet	Small Block	1650-1	AFR	66	AFR 225 LS1
Chevrolet	Small Block	1000 1		64	AFR 225 LS1
Chevrolet	Small Block	1600-1		00	AFR 225 LST
Chevrolet	Small Block	1670-1		74	AFR 225 LST AFR 225 LST
Chevrolet	Small Block	1680	AFR	70	AFR 225 L S1
Chevrolet	Small Block	1680-1	AFR	76	AFB 225 S1
Chevrolet	Small Block	908	AFR	56-74	AFR 180 LT1
Chevrolet	Small Block	909	AFR	56-74	AFR 180 LT1
Chevrolet	Small Block	911	AFR	68	AFR 180
Chevrolet	Small Block	912	AFR	74	AFR 180
Chevrolet	Small Block	913	AFR	74	AFR 180
Chevrolet	Small Block	916	AFR	74	AFR 180
Chevrolet	Small Block	917	AFR	68	AFR 180
Chevrolet	Small Block	918	AFR	74	AFR 180
Chevrolet	Small Block	985	AFR	74	AFR 180
Chevrolet	Small Block	988		74	AFR 180
Chevrolet	Small Block	969		74	AFR 160 AED 105
Chevrolet	Small Block	-10	Brodiy	67	ALL 192
Chevrolet	Small Block	-10X	Brodix	56	
Chevrolet	Small Block	-11	Brodix	67	
Chevrolet	Small Block	-11X	Brodix	67	
Chevrolet	Small Block	-12 SP B	Brodix	68	
Chevrolet	Small Block	-12 SP B MC	Brodix	68	
Chevrolet	Small Block	-12 SP BS	Brodix	68	
Chevrolet	Small Block	-12 SP BS MC	Brodix	68	
Chevrolet	Small Block	-12 SP P	Brodix	68	
Chevrolet	Small Block	-12 SP WB	Brodix	68	
Chevrolet	Small Block	-12 SP WB MC	Brodix	68	
Chevrolet	Small Block	12X12	Brodix	b/	
Chevrolet	Small Block		DIOUIX	69	
Chevrolet	Small Block	18 STD Y	Brodix	68	
Chevrolet	Small Block	-8	Brodix	67	
Chevrolet	Small Block	-8 PBO	Brodix	67	
Chevrolet	Small Block	-8 STD FSH PKG-1	Brodix	67	
Chevrolet	Small Block	BD 2000	Brodix	74	
Chevrolet	Small Block	CV SP	Brodix	54	



Mfor	CID	Casting or ID#	Application	Chamber CC's	Notes
Chevrolet	Small Block		Brodiv	54	Notes
Chevrolet	Small Block	ER 1000	Brodix	62	
Chevrolet	Small Block	FB 1001	Brodix	62	
Chevrolet	Small Block	GB 2000	Brodix	74	
Chevrolet	Small Block	M2 18 X	Brodix	68	
Chevrolet	Small Block	ST STD PKG-1	Brodix	67	
Chevrolet	Small Block	Track 1	Brodix	67	
Chevrolet	Small Block	Track 1X	Brodix	68	
Chevrolet	Small Block	WP SY WT-1	Brodix	67	
Chevrolet	Small Block	23500 65	Canfield	65	
Chevrolet	Small Block	23600 65	Canfield	65	
Chevrolet	Small Block	10021070	Dart	72	165cc Pro 1
Chevrolet	Small Block	10021171	Dart	12	10500 Pro 1
Chevrolet	Small Block	10110010	Dart	64	180cc Pro 1
Chevrolet	Small Block	10111112	Dart	64	180cc Pro 1
Chevrolet	Small Block	10120010	Dart	64	180cc Pro 1
Chevrolet	Small Block	10121111	Dart	64	180cc Pro 1
Chevrolet	Small Block	10121112	Dart	64	180cc Pro 1
Chevrolet	Small Block	10210010	Dart	72	180cc Pro 1
Chevrolet	Small Block	10211111	Dart	72	180cc Pro 1
Chevrolet	Small Block	10211112	Dart	72	180cc Pro 1
Chevrolet	Small Block	10220010	Dart	72	180cc Pro 1
Chevrolet	Small Block	10221111	Dart	72	180cc Pro 1
Chevrolet	Small Block	10221112	Dart	12	180CC Pro 1
Chevrolet	Small Block	10310010	Dart	64	200cc Pro 1
Chevrolet	Small Block	10310020	Dart	64	200cc Pro 1
Chevrolet	Small Block	10311111	Dart	64	200cc Pro 1
Chevrolet	Small Block	10311112	Dart	64	200cc Pro 1
Chevrolet	Small Block	10311122	Dart	64	200cc Pro 1
Chevrolet	Small Block	10311123	Dart	64	200cc Pro 1
Chevrolet	Small Block	10311133	Dart	64	200cc Pro 1
Chevrolet	Small Block	10320010	Dart	64	200cc Pro 1
Chevrolet	Small Block	10320020	Dart	64	200cc Pro 1
Chevrolet	Small Block	10320030	Dart	64	200cc Pro 1
Chevrolet	Small Block	10321111	Dart	64	200cc Pro 1
Chevrolet	Small Block	10321112	Dart	64	200cc Pro 1
Chevrolet	Small Block	10321123	Dart	64	200cc Pro 1
Chevrolet	Small Block	10321133	Dart	64	200cc Pro 1
Chevrolet	Small Block	10410010	Dart	72	200cc Pro 1
Chevrolet	Small Block	10410020	Dart	72	200cc Pro 1
Chevrolet	Small Block	10410030	Dart	72	200cc Pro 1
Chevrolet	Small Block	10411111	Dart	72	200cc Pro 1
Chevrolet	Small Block	10411112	Dart	72	200cc Pro 1
Chevrolet	Small Block	10411122	Dart	72	200cc Pro 1
Chevrolet	Small Block	10411123	Dart	72	200cc Pro 1
Chevrolet	Small Block	10420010	Dart	72	200cc Pro 1
Chevrolet	Small Block	10420020	Dart	72	200cc Pro 1
Chevrolet	Small Block	10420030	Dart	72	200cc Pro 1
Chevrolet	Small Block	10421111	Dart	72	200cc Pro 1
Chevrolet	Small Block	10421112	Dart	72	200cc Pro 1
Chevrolet	Small Block	10421122	Dart	72	200cc Pro 1
Chevrolet	Small Block	10421123	Dart	72	200cc Pro 1
Chevrolet	Small Block	10421133	Dart	72	200cc Pro 1
Chevrolet	Small Block	10510020	Dart	64	215cc Pro 1
Chevrolet	Small Block	10510030	Dart	64	21500 Pro 1
Chevrolet	Small Block	10510040	Dart	64	21500 Pro 1
Chevrolet	Small Block	10511122	Dart	64	215cc Pro 1
Chevrolet	Small Block	10511123	Dart	64	215cc Pro 1
Chevrolet	Small Block	10511133	Dart	64	215cc Pro 1
Chevrolet	Small Block	10511143	Dart	64	215cc Pro 1
Chevrolet	Small Block	10511153	Dart	64	215cc Pro 1
Chevrolet	Small Block	10520020	Dart	64	215cc Pro 1
Chevrolet	Small Block	10520030	Dart	64	215cc Pro 1
Chevrolet	Small Block	10520040	Dart	64	21500 Pro 1
Chevrolet	Small Block	10520050	Dart	64	215cc Pro 1
Chevrolet	Small Block	10521122	Dart	64	215cc Pro 1
	2				



<u>- yiiiidoi</u>	I I O G G I I					
Mfgr.	CID	Casting or ID#	Application	Chamber CC's		Notes
Chauralat	Small Blook	10501102	Dort	64	01Eco Dro 1	
Ohermalat		10521155	Dait	04	21000 FI0 1	
Chevrolet	Small Block	10521143	Dart	64	215CC Pro 1	
Chevrolet	Small Block	10521153	Dart	64	215cc Pro 1	
Chevrolet	Small Block	10610020	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10610030	Dart	72	215cc Pro 1	
Chourolot	Small Block	10610040	Dort	70	21500 Pro 1	
Ohermalat		10010040	Dail	72	21000 FI0 1	
Chevrolet	Small Block	10610050	Dart	72	215CC Pro 1	
Chevrolet	Small Block	10611122	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10611123	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10611133	Dart	72	215cc Pro 1	
Chovrolot	Small Block	10611142	Dart	70	21500 Pro 1	
Ohermalat		10011143	Dait	72	21000 FI0 1	
Chevrolet	Small Block	10611153	Dart	72	215CC Pro 1	
Chevrolet	Small Block	10620020	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10620030	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10620040	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10620050	Dart	72	215cc Pro 1	
Chevrolet	Ornall Diock	10020030	Dait	72	21000 FIU 1	
Chevrolet	Small Block	10621122	Dart	72	215CC Pro 1	
Chevrolet	Small Block	10621123	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10621133	Dart	72	215cc Pro 1	
Chevrolet	Small Block	10621143	Dart	72	215cc Pro 1	
Chourolot	Small Blook	10621152	Dort	70	21500 Pro 1	
Chevrolet	Siliali Diuck	10021155	Dait	12	21500 FI0 1	
Chevrolet	Small Block	10710020	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10710040	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10710050	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10711143	Dart	64	230cc Pro 1	
Chovrolot	Small Block	10711152	Dart	64	22000 Pro 1	
Ohermalat		10711155	Dait	04	20000 FIU 1	
Chevrolet	Small Block	10720040	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10720050	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10721143	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10721153	Dart	64	230cc Pro 1	
Chevrolet	Small Block	10810040	Dart	72	230cc Pro 1	
Chevrolet	Omall Diock	10010040	Dait	72	20000 FIU I	
Chevrolet	Small Block	10810050	Dart	12	230CC Pro I	
Chevrolet	Small Block	10811143	Dart	72	230cc Pro 1	
Chevrolet	Small Block	10811153	Dart	72	230cc Pro 1	
Chevrolet	Small Block	10820040	Dart	72	230cc Pro 1	
Chevrolet	Small Block	10820050	Dart	72	230cc Pro 1	
Chauralat	Cmall Diock	10020030	Dart	72	20000 TTO T	
Crievrolet	Small Block	10620153	Dari	72	230CC PIO 1	
Chevrolet	Small Block	10821143	Dart	72	230cc Pro 1	
Chevrolet	Small Block	11310010	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11310020	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11310030	Dart	64	200cc Pro 1	
Chauralat	Cmall Diock	11011111	Dart	64	20000 TTO 1	
Crievrolet	Small Block	11311111	Dart	04	20000 PIO I	
Chevrolet	Small Block	11311112	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11311122	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11311123	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11311133	Dart	64	200cc Pro 1	
Chovrolot	Small Block	11220010	Dart	64	20000 Pro 1	
Ohermalat		11020010	Dait	04	20000 FIU 1	
Chevrolet	Small Block	11320020	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11320030	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11321111	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11321112	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11321122	Dart	64	200cc Pro 1	
Chevrolot	Small Blook	11201102	Dart	61	20000 Pro 1	
Chevrolet		11021120	Dail	04		
Chevrolet	Small Block	11321133	Dart	64	200cc Pro 1	
Chevrolet	Small Block	11410010	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11410020	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11410030	Dart	72	200cc Pro 1	
Chourolot	Small Blook	11/11/11	Dort	72	20000 Pro 1	
Ohermalat		1141111	Dait	72	20000 FIU 1	
Chevrolet	Small Block	11411112	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11411122	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11411123	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11411133	Dart	72	200cc Pro 1	
Chevrolet	Small Blook	11/20010	Dart	70	200cc Pro 1	
Chouralat	Cmall DIUCK	1140000	Dort	70	200001101	
Chevrolet	Small BIOCK	11420020	Dall	72	ZUUCC Pro 1	
Chevrolet	Small Block	11420030	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11421111	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11421112	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11421122	Dart	72	200cc Pro 1	
Chevrolet	Small Block	11/01103	Dart	70	200cc Pro 1	
Chauralat	Omall Dlock	11401400	Dart	70	20000 FIU I	
Chevrolet	Small Block	11421133	Dan	12	200cc Pro 1	
Chevrolet	Small Block	11510020	Dart	64	215cc Pro 1	
Chevrolet	Small Block	11510030	Dart	64	215cc Pro 1	



Mfar.	CID	Casting or ID#	Application	Chamber CC's	Notes
Chevrolet	Small Block	11510040	Dart	64	215cc Pro 1
Chevrolet	Small Block	11510050	Dart	64	215cc Pro 1
Chevrolet	Small Block	11511122	Dart	64	215cc Pro 1
Chevrolet	Small Block	11511123	Dart	64	215cc Pro 1
Chevrolet	Small Block	11511133	Dart	64	215cc Pro 1
Chevrolet	Small Block	11511143	Dart	64	215cc Pro 1
Chevrolet	Small Block	11511153	Dart	64	215cc Pro 1
Chevrolet	Small Block	11520020	Dart	64	21500 Pro 1
Chevrolet	Small Block	11520030	Dart	64	215cc Pro 1
Chevrolet	Small Block	11520050	Dart	64	215cc Pro 1
Chevrolet	Small Block	11521122	Dart	64	215cc Pro 1
Chevrolet	Small Block	11521123	Dart	64	215cc Pro 1
Chevrolet	Small Block	11521133	Dart	64	215cc Pro 1
Chevrolet	Small Block	11521143	Dart	64	215cc Pro 1
Chevrolet	Small Block	11521153	Dart	64	215cc Pro 1
Chevrolet	Small Block	11610020	Dart	72	21500 Pro 1
Chevrolet	Small Block	11610040	Dart	72	215cc Pro 1
Chevrolet	Small Block	11611122	Dart	72	215cc Pro 1
Chevrolet	Small Block	11611123	Dart	72	215cc Pro 1
Chevrolet	Small Block	11611133	Dart	72	215cc Pro 1
Chevrolet	Small Block	11611143	Dart	72	215cc Pro 1
Chevrolet	Small Block	11611153	Dart	72	215cc Pro 1
Chevrolet	Small Block	11620020	Dart	72	215cc Pro 1
Chevrolet	Small Block	11620030	Dart	72	215cc Pro 1
Chevrolet	Small Block	11620040	Dart	72	21500 Pro 1
Chevrolet	Small Block	11621122	Dart	72	215cc Pro 1
Chevrolet	Small Block	11621123	Dart	72	215cc Pro 1
Chevrolet	Small Block	11621133	Dart	72	215cc Pro 1
Chevrolet	Small Block	11621143	Dart	72	215cc Pro 1
Chevrolet	Small Block	11621153	Dart	72	215cc Pro 1
Chevrolet	Small Block	11710040	Dart	64	230cc Pro 1
Chevrolet	Small Block	11710050	Dart	64	230cc Pro 1
Chevrolet	Small Block	11/11143	Dart	64	230cc Pro 1
Chevrolet	Small Block	11720040	Dart	64	230cc Pro 1
Chevrolet	Small Block	11720050	Dart	64	230cc Pro 1
Chevrolet	Small Block	11721143	Dart	64	230cc Pro 1
Chevrolet	Small Block	11721153	Dart	64	230cc Pro 1
Chevrolet	Small Block	11810040	Dart	72	230cc Pro 1
Chevrolet	Small Block	11810050	Dart	72	230cc Pro 1
Chevrolet	Small Block	11811143	Dart	72	230cc Pro 1
Chevrolet	Small Block	11811153	Dart	72	230cc Pro 1
Chevrolet	Small Block	11820040	Dart	72	230cc Pro 1
Chevrolet	Small Block	11821143	Dart	72	230cc Pro 1
Chevrolet	Small Block	11821153	Dart	72	230cc Pro 1
Chevrolet	Small Block	18 degree Race Series	Dart	67	
Chevrolet	Small Block	220cc Race Series	Dart	64	
Chevrolet	Small Block	60719	Edelbrock	70	
Chevrolet	Small Block	60739	Edelbrock	70	
Chevrolet	Small Block	60759	Edelbrock	70	
Chevrolet	Small Block	60970	Edelbrock	60	
Chevrolet	Small Block	60899	Edelbrock	64	
Chevrolet	Small Block	60909	Edelbrock	64	
Chevrolet	Small Block	60979	Edelbrock	64	E-Tec
Chevrolet	Small Block	60989	Edelbrock	64	
Chevrolet	Small Block	60999	Edelbrock	64	
Chevrolet	Small Block	61049	Edelbrock	52	
Chevrolet	Small Block	01009 61090	Edelbrock	52 52	
Chevrolet	Small Block	61109	Edelbrock	5 <u>-</u>	
Chevrolet	Small Block	61129	Edelbrock	65	
Chevrolet	Small Block	61149	Edelbrock	65	
Chevrolet	Small Block	61159	Edelbrock	52	
Chevrolet	Small Block	61169	Edelbrock	52	
Chevrolet	Small Block	61179	Edelbrock	47	
Chevrolet	Small Block	61189	Edelbrock	65	
Chevrolet	Small Block	61199	Edelbrock	65	



Mfau		Conting or ID#	Application	Chamber CC's	Natao
Migr.		Casting or ID#	Application	Chamber CC s	Notes
Chevrolet	Small Block	61209	Edelbrock	71	
Chevrolet	Small Block	61229		/1	
Chevrolet	Small Block	01249	Edelbrook	/ I 64	
Chevrolet	Small Block	77570	Edelbrock	64 64	
Chevrolet	Small Block	77590	Edelbrock	64	
Chevrolet	Small Block	77500	Edelbrook	64	
Chevrolet	Small Block	77610	Edelbrock	70	
Chevrolet	Small Block	77629	Edelbrock	70	
Chevrolet	Small Block	77639	Edelbrock	70	
Chevrolet	Small Block	77649	Edelbrock	70	
Chevrolet	Small Block	492	LT-1, 7-28	64	Fuel Injection
Chevrolet	Small Block	896	Power Pack (Late '50's)	59	
Chevrolet	Small Block	123 2000 00A	Pro Topline	72	
Chevrolet	Small Block	123 2000 20A	Pro Topline	72	
Chevrolet	Small Block	123 2000 35A	Pro Topline	72	
Chevrolet	Small Block	123 2000 80A	Pro Topline	72	
Chevrolet	Small Block	123 2600 20A	Pro Topline	72	
Chevrolet	Small Block	123 2600 35A	Pro Topline	72	
Chevrolet	Small Block	123 2622 20A	Pro Topline	72	
Chevrolet	Small Block	123 2622 35A	Pro Topline	76	
Chevrolet	Small Block	123 4000 00A	Pro Topline	64	
Chevrolet	Small Block	123 4000 20A	Pro Topline	64	
Chevrolet	Small Block	123 4000 35A	Pro Topline	64	
Chevrolet	Small Block	123 4000 80A	Pro Topline	64	
Chevrolet	Small Block	123 4600 20A	Pro Topline	64	
Chevrolet	Small Block	123 4600 35A	Pro Topline	64	
Chevrolet	Small Block	123 4622 20A	Pro Topline	64	
Chevrolet	Small Block	123 4622 35A	Pro Topline	64	
Chevrolet	Small Block	223 2000 00A	Pro Topline	72	
Chevrolet	Small Block	223 2000 20A	Pro Topline	72	
Chevrolet	Small Block	223 2000 35A	Pro Topline	72	
Chevrolet	Small Block	223 2000 80A	Pro Topline	72	
Chevrolet	Small Block	223 2600 20A	Pro Topline Bro Toplino	72	
Chevrolet	Small Block	223 2000 33A	Pro Topline	72	
Chevrolet	Small Block	223 2022 20A	Pro Topline Pro Toplino	72	
Chevrolet	Small Block	223 2022 33A	Pro Toplino	64	
Chevrolet	Small Block	223 4000 00A	Pro Topline	64	
Chevrolet	Small Block	223 4000 207	Pro Topline	64	
Chevrolet	Small Block	223 4000 804	Pro Topline	64	
Chevrolet	Small Block	223 4600 20A	Pro Topline	64	
Chevrolet	Small Block	223 4600 35A	Pro Topline	64	
Chevrolet	Small Block	223 4622 20A	Pro Topline	64	
Chevrolet	Small Block	223 4622 35A	Pro Topline	64	
Chevrolet	Small Block	223 5000 00A	Pro Topline	50	
Chevrolet	Small Block	223 5000 20A	Pro Topline	50	
Chevrolet	Small Block	223 6494 083	Pro Topline	64	
Chevrolet	Small Block	223 6494 193	Pro Topline	64	
Chevrolet	Small Block	223 6494 906	Pro Topline	64	
Chevrolet	Small Block	223 6794 167T	Pro Topline	67	
Chevrolet	Small Block	223 7694 167T	Pro Topline	76	
Chevrolet	Small Block	223 7694 193	Pro Topline	76	
Chevrolet	Small Block	223 7694 217	Pro Topline	76	
Chevrolet	Small Block	TFS-30400001	Trick Flow	64	
Chevrolet	Small Block	TFS-30400001-CNC	Trick Flow	64	
Chevrolet	Small Block	TFS-30400002	Trick Flow	64	
Chevrolet	Small Block	TFS-30400002-CNC	Trick Flow	64	
Chevrolet	Small Block	TFS-30400003	Trick Flow	64	
Chevrolet	Small Block	TFS-30400003-CNC	I rick Flow	64	
Chevrolet	Small Block	TFS-30400005	I rick Flow	64	
Chevrolet	Small Block	TFS-30400005-CNC	I rick Flow	64	
Chevrolet	Small Block	TFS-30400006	I FICK FIOW	64	
Chevrolet	Small Block	TFS-30400006-CNC	Trick Flow	64	
Chovrolet	Small Block	TES 20400007 CNC		64	
Chevrolet	Small Block	TES-30400007-CNC	Trick Flow	72	
Chevrolet	Small Block	TES-30400012-CNC	Trick Flow	72	
Chevrolet	Small Block	TES-318000014	Trick Flow	56	18 Degree
Chevrolet	Small Block	TES-3180T801	Trick Flow	56	18 Degree
Chevrolet	Small Block	TES-3182B001	Trick Flow	56	18 Degree
Chevrolet	Small Block	TFS-32400006	Trick Flow	67	R Series big port



Mfar.	CID	Casting or ID#	Application	Chamber CC's	Notes
Chevrolet	Small Block	TES-32400007	Trick Flow	67	B Series big port
Chevrolet	Small Block	TES-3240T006	Trick Flow	67	R Series big port
Chevrolet	Small Block	TFS-3240T007	Trick Flow	67	R Series big port
Chevrolet	Small Block	011150	World	64	Angle plug
Chevrolet	Small Block	011250	World	64	Straight plug
Chevrolet	Small Block	012150	World	72	Angle plug
Chevrolet	Small Block	012250	World	72	Straight plug
Chevrolet	Small Block	012260	World	72	'87 & later intake
Chevrolet	Small Block	014150	World	64	Angle plug
Chevrolet	Small Block	014250	World	64	Straight plug
Chevrolet	Small Block	014350	World	72	Angle plug
Chevrolet	Small Block	024150	World	64	Aluminum, angle plug
Chevrolet	Small Block	042650	World	58	305 replacement, Straight plug
Chevrolet	Small Block	042660	World	0/ 76	Straight plug
Chevrolet	Small Block	042070	World	59	205 roplacement '97 & later intake
Chevrolet	Small Block	042730	World	50 76	'87 & later intake
Chevrolet	Small Block	042600	World	76	Straight plug
Chevrolet	Small Block	043610	World	67	Straight plug
Chevrolet	Small Block	043640	World	76	'87 & later intake
Chevrolet	Small Block	043650	World	67	'87 & later intake, center bolt valve covers
Chevrolet	Small Block	043700	World	67	'87 & later intake, center bolt valve covers
Chevrolet	396	3872702	1965-66	96.4	
Chevrolet	396	3873858	1965-66	106.9	
Chevrolet	396	3904390	1965-66	96.4	
Chevrolet	396	3904391	1965-66	106.9	
Chevrolet	396	3909802	1965-66	96.4	
Chevrolet	396	3856208	1965-66 H.P.	106.9	
Chevrolet	396	3846206	1965-68	96.4	
Chevrolet	396	391/215	1965-68	96.4	
Chevrolet	396	3856206	1965-69	96.4	
Chevrolet	390	3919040	1965-69	104.9	
Chevrolet	396	3964280	1965-69	90.4 96.4	
Chevrolet	396	3964290	1965-69	96.4	
Chevrolet	396	3964291	1965-69	106.9	
Chevrolet	396	3873702	1966	96.4	
Chevrolet	396	3856260	1968		
Chevrolet	396	3919839	1968-69	104.9	
Chevrolet	396	3919842	1968-69	103.3	
Chevrolet	396	3965198	1968-69		
Chevrolet	396	3933148	1969	109	
Chevrolet	396	3964380	1969-69		
Chevrolet	396	3975950	1970 Truck		
Chevrolet	402	3975950	1970 Truck		
Chevrolet	402	3903190	1970-71	06.4	
Chevrolet	402	3993820	1970-72	105	
Chevrolet	402	3999241	1971-72	105	
Chevrolet	402	6272290	1972-73 Truck		
Chevrolet	427	3872702	1965-66	96.4	
Chevrolet	427	3873858	1965-66	106.9	
Chevrolet	427	3904390	1965-66	96.4	
Chevrolet	427	3904391	1965-66	106.9	
Chevrolet	427	3856208	1965-66 H.P.	106.9	
Chevrolet	427	3917215	1965-68	96.4	
Chevrolet	427	3919840	1965-69	104.9	
Chevrolet	427	3931063	1965-69	96.4	
Chevrolet	427	3856213	1965-70 Truck	100.9	
Chevrolet	427	2017210	1965-70 Tluck	06.4	
Chevrolet	427	3904392	1967	103.3	
Chevrolet	427	3919839	1968-69	104.9	
Chevrolet	427	3919842	1968-69	103.3	
Chevrolet	427	3946074	1969	114.8	
Chevrolet	427	3986135	1969-73 Truck		
Chevrolet	427	336768	1973-76 Truck		
Chevrolet	454	3964291	1970	106.9	
Chevrolet	454	3964292	1970	106.9	
Chevrolet	454	3946074	1970-71	114.8	
Chevrolet	454	3964280	1970-72	96.4	
Cnevrolet	404	3993820	1970-72	105	



Mfgr.	CID	Casting or ID#	Application	Chamber CC's	Notes
Chevrolet	454	3856206	1970-73	96.4	
Chevrolet	454	343783	1970-76		
Chevrolet	454	352625	1970-76	06.4	
Chevrolet	404 454	3904290	1970-76	90.4	
Chevrolet	454	6258723	1971	103.1	
Chevrolet	454	6272990	1971	118	
Chevrolet	454	3999241	1971-72	105	
Chevrolet	454	353049	1973	110	
Chevrolet	454	336781	1974	110	
Chevrolet	454 Bia Dhach	346236	1975-76 Truck	112	
Chevrolet	BIG BIOCK	2000		121	AFR 315 Magnum
Chevrolet	Big Block	2001	AFR	121	AFR 355 Magnum
Chevrolet	Big Block	2100	AFR	119	AFR 305 Magnum
Chevrolet	Big Block	2100-1	AFR	121	AFR 305 Magnum
Chevrolet	Big Block	2101	AFR	119	AFR 325 Magnum
Chevrolet	Big Block	2101-1	AFR	121	AFR 325 Magnum
Chevrolet	Big Block	2110	AFR	119	AFR 345 Magnum
Chevrolet	BIG BIOCK	2110-1	AFR	121	AFR 345 Magnum
Chevrolet	BIG BIOCK	3050		101	AFR 305 Magnum
Chevrolet	Big Block	3150	AFR	121	AFR 315 Magnum
Chevrolet	Big Block	3250	AFR	119	AFR 325 Magnum
Chevrolet	Big Block	3250-1	AFR	121	AFR 325 Magnum
Chevrolet	Big Block	3250-1	AFR	121	AFR 345 Magnum
Chevrolet	Big Block	3350	AFR	121	AFR 335 Magnum
Chevrolet	Big Block	3450	AFR	119	AFR 345 Magnum
Chevrolet	BIG BIOCK	3570		121	AFR 357 Magnum
Chevrolet	Big Block	3600-1		121	AFR 265 oval port Magnum
Chevrolet	Big Block	3610	AFR	119	AFR 265 oval port Magnum
Chevrolet	Big Block	3610-1	AFR	121	AFR 265 oval port Magnum
Chevrolet	Big Block	3620	AFR	119	AFR 265 oval port Magnum
Chevrolet	Big Block	3620-1	AFR	121	AFR 265 oval port Magnum
Chevrolet	Big Block	3630	AFR	119	AFR 290 oval port Magnum
Chevrolet	Big Block	3640		121	AFR 290 oval port Magnum
Chevrolet	Big Block	14011077	ALIMINUM Service	118	Open chamber
Chevrolet	Big Block	3919842	Aluminum Service	107	Closed chamber
Chevrolet	Big Block	14044861	Bowtie	105	Open chamber
Chevrolet	Big Block	10051128	Bowtie - symmetrical port	72	Semi-open chamber
Chevrolet	Big Block	BB-1	Brodix	119	
Chevrolet	Big Block	BB-1 OEFI	Brodix	119	
Chevrolet	BIG BIOCK	BB-2	Brodix	110	
Chevrolet	Big Block	BB-2 XTRA	Brodix	119	
Chevrolet	Big Block	BB-2X	Brodix	119	
Chevrolet	Big Block	BB-3	Brodix	119	
Chevrolet	Big Block	BB-4	Brodix	134	
Chevrolet	Big Block	BB-5	Brodix	108	
Chevrolet	Big Block	M2 BIG DUKE	Brodix	97	
Chevrolet	Big Block	PD 1000 PB 1801	Brodix	80	
Chevrolet	Big Block	PB 1802	Brodix	91	
Chevrolet	Big Block	PB 2005	Brodix	80	
Chevrolet	Big Block	245990 113	Canfield	113	CNC
Chevrolet	Big Block	245990 119	Canfield	119	CNC
Chevrolet	Big Block	245990 125	Canfield	125	CNC
Chevrolet	Big Block	265cc Race Series	Dart	119	
Chevrolet	Big Block	308cc Pro 1	Dart	119	
Chevrolet	Big Block	310cc Pro 1	Dart	119	
Chevrolet	Big Block	320cc Race Series	Dart	119	
Chevrolet	Big Block	325cc Pro 1	Dart	119	
Chevrolet	Big Block	335cc Pro 1 CNC	Dart	119	
Chevrolet	Big Block	345cc Iron Eagle	Dart	119	
Chevrolet	Big Block	34500 Pro 1	Dart	119	
Chevrolet	Big Block	360cc Bace Series	Dart	119	
Chevrolet	Big Block	370cc Oval Race Series	Dart	119	
Chevrolet	Big Block	410cc Big M Race Series	Dart	119	



Mfgr.	CID	Casting or ID#	Application	Chamber CC's	Notes
Chevrolet	Big Block	020650	Edelbrock	119	
Chevrolet	Big Block	60409	Edelbrock	112	
Chevrolet	Big Block	60419	Edelbrock	112	
Chevrolet	Big Block	60429	Edelbrock	112	
Chevrolet	Big Block	60439	Edelbrock	112	
Chevrolet	Big Block	60449	Edelbrock	110	
Chevrolet	Big Block	60459	Edelbrock	110	
Chevrolet	BIG BIOCK	60409 60470	Edelbrook	110	
Chevrolet	Big Block	60489	Edelbrock	100	
Chevrolet	Big Block	60499	Edelbrock	100	
Chevrolet	Big Block	60549	Edelbrock	118	
Chevrolet	Big Block	60559	Edelbrock	118	
Chevrolet	Big Block	61459	Edelbrock	110	
Chevrolet	Big Block	61559	Edelbrock	118	
Chevrolet	Big Block	77609	Edelbrock	117	
Chevrolet	Big Block	77659	Edelbrock	133	
Chevrolet	Big Block	14096188	LS6/LS7 Crate Engine	118	Open chamber
Chevrolet	Big Block	6272990	LS6/LS7 Crate Engine	118	Open chamber
Chevrolet	Big Block	10045427	Pontiac Super Duty	91	Open chamber
Chevrolet	Big Block	10049875	Pontiac Super Duty	83	Open chamber
Chevrolet	BIG BIOCK	3964291	Service	108	Closed chamber
Chevrolet	BIG BIOCK	TFS-41400001	I FICK FIOW	122	R320
Chevrolet	Big Block	TFS-41400002	Trick Flow	122	R320
Chevrolet	Big Block	TES-41400004	Trick Flow	122	B340
Chevrolet	Big Block	TES-41400005	Trick Flow	122	R340
Chevrolet	Big Block	TFS-41400006	Trick Flow	122	R340
Chevrolet	Big Block	TFS-41400007	Trick Flow	122	R360
Chevrolet	Big Block	TFS-41400008	Trick Flow	122	R360
Chevrolet	Big Block	TFS-4140T001	Trick Flow	122	R320
Chevrolet	Big Block	TFS-4140T002	Trick Flow	122	R320
Chevrolet	Big Block	TFS-4140T003	Trick Flow	122	R320
Chevrolet	Big Block	TFS-4140T004	Trick Flow	122	R340
Chevrolet	Big Block	TFS-4140T005	Trick Flow	122	R340
Chevrolet	Big Block	TFS-41401006	I rick Flow	122	R340
Chevrolet	Big Block	TES 41401007	Trick Flow	122	R300 R360
Chevrolet	Big Block	TES-41401000 TES-41401808	Trick Flow	122	R360
Chevrolet	Big Block	020660	World	119	Merlin II: 350cc intake
Chrysler	318	2658920	1967	57	
Chrysler	318	2843675	1968-71	64	
Chrysler	318	2843675	1972	64	
Chrysler	318	2843675	1973-74	64	
Chrysler	318	3769973	1975	64	
Chrysler	318	3769973	1976	64	
Chrysler	318	4027163	1977-79	64	
Chrysler	318	4027593	19/7-79	64	
Chrysler	310	4027103	1960	04 64	
Chrysler	318	4027595	1081-83	64	
Chrysler	318	4027593	1981-83	64	
Chrysler	318	4027596	1981-83 High Performance	68	
Chrysler	318	4071051	1981-83 High Performance	68	
Chrysler	318	302	1989-91 Swirl	60	
Chrysler	340	2531894	1968-71	68	
Chrysler	340	3418915	1970	68	
Chrysler	340	3418915	1972	68	
Chrysler	340	3671587	1973-74	68	
Chrysler	340	0.440045	6-bbl. I/A Service	70	P4529493
Chrysler	30U 360	3418915	19/1	80	
Chrysler	360	3410913 3671587	1972	60 68	
Chrysler	360	3671587	1973-74	68	
Chrysler	360	3769974	1975	68	
Chrysler	360	3671587	1976	68	
Chrysler	360	3769974	1976	68	
Chrysler	360	4027596	1977-79	68	
Chrysler	360	4071051	1977-79	68	
Chrysler	360	4027596	1980	68	
Chrysler	360	4071051	1980	68	
Chrysler	360	308	1989-91 Swirl	68	



Mfar	CID	Casting or ID#	Application	Chamber CC's	Notes
Chrysler	383	2463200	1963		110105
Chrysler	383	2406516	1964-67		
Chrysler	383	2843906	1968-70	88	
Chrysler	383	3462346	1971-72	88	
Chrysler	413	2463200	1963		
Chrysler	426	2463209	1963 Max Wedge		
Chrysler	426	2406518	1964 Max Wedge		
Chrysler	440	2780915	1967 High Performance	78.5	
Chrysler	440	2843906	1968-70	88	
Chrysler	440	3462346	1971-73	88	
Chrysler	440	3/51213	1973 Motor Home	88	
Chrysler	440	3769902	1974	88	
Chrysler	440	4006452	1976-78	88	
Chrysler	Small Block	60179	Edelbrock	65	
Chrysler	Small Block	60199	Edelbrock	65	
Chrysler	Small Block	60769	Edelbrock	63	
Chrysler	Small Block	60779	Edelbrock	63	
Chrysler	400	3462346	1971-73	88	
Chrysler	400	3751213	1973 Motor Home	88	
Chrysler	400	3769902	1974	88	
Chrysler	400	3/699/5	1975	88	
Chrysler	400 Small Block	4000432	1970-70 Ecopo W2	00 71	P4520004
Chrysler	Small Block		W2	71	P4529994 P4529446
Chrysler	Small Block		W5	59	P4452924
Chrysler	Big Block	B1	Brodix	68	1 +102021
Chrysler	Big Block	B1 BA	Brodix	65	
Chrysler	Big Block	B1 BA MC	Brodix	67	
Chrysler	Big Block	B1 BS	Brodix	65	
Chrysler	Big Block	60149	Edelbrock	88	
Chrysler	Big Block	60189	Edelbrock	88	
Chrysler	Big Block	60919	Edelbrock	84	
Chrysler	Big Block	60929	Edelbrock	84	
Chrysler	Big Block	3614476	Stage IV		
Chrysler	BIG BIOCK	4286526V	Stage V	00	
Ford	260		1062-63	90 54 5	
Ford	260	C3OF-B	1962-63	54.5	
Ford	260	C4OE-B	1964	54.5	
Ford	289	C3AE-F	1963-64	54.5	
Ford	289	C3OE-E	1963-64	54.5	
Ford	289	C3OE-F	1963-64	54.5	
Ford	289	C4AE-C	1963-64	54.5	
Ford	289	C4OE-B	1964-67 High Perf.	54.5	
Ford	289	C5AE-E	1964-67 High Perf.	54.5	
Ford	209		1964-07 HIGH PEH.	54.5 54.5	
Ford	289	C60F-C	1965-67	54 5	
Ford	289	C6OE-E	1965-67	54.5	
Ford	289	C6OE-G	1965-67	54.5	
Ford	289	C6OE-M	1965-67	54.5	
Ford	289	C7OE-A	1965-67	54.5	
Ford	289	C7OE-B	1965-67	54.5	
Ford	289	C7OE-C	1965-67	54.5	
Ford	289	C7OZ-B	1965-67	54.5	
Ford	289		1965-67	54.5	
Ford	209		1900	63	
Ford	289	C8OF-M	1968	63	
Ford	302	F3ZE-AA	1000	64.9	
Ford	302	C70E-C	1968-70	63	
Ford	302	C70E-G	1968-70	63	
Ford	302	C8AE-J	1968-70	63	
Ford	302	C8DE-F	1968-70	63	
Ford	302	C8OE-F	1968-70	53.5	
Ford	302	C80E-J	1968-70	63	
Ford	302		1908-70	63	
Ford	302	C8OE-L	1968-70	63	
Ford	302	C9TF-C	1968-70	58.2	
Ford	302	DOOE-B	1968-70	58.2	



Mfgr.	CID	Casting or ID#	Application	Chamber CC's	Notes
Ford	302	D1TZ-A	1971-74	58.2	·
Ford	302	D2OE-BA	1971-74	58.2	
Ford	302	D5OE-A3A	1975-76	58.2	
Ford	302	D5OE-A3B	1975-76	58.2	
Ford	302	D5OE-GA	1975-76	58.2	
Ford	302	D7OE-DA	1977	69	
Ford	302	D8OE-AB	1978-80	69	
Ford	302	FUJE-AA	5.0L & 5.8L Marine	69	
Ford	302		5.0L \approx 5.6L Marine	69	
Ford	302	E7TE-PA	5 0L HO (1987-95) & E-series truck	62.1	
Ford	302	F6AF-AA	5 0L HO(1986) & passenger car	64.4	
Ford	302	E7AE-AA	5.0L passenger car (non-HO)	64.4	
Ford	302	D9AE-AA	5.0L(1979), 5.0L HO(1982-84)	69	
Ford	302	F1ZE-AA	Cobra and HO Marine	62.1	
Ford	302	F3ZE-AA	Cobra and HO Marine	62.1	
Ford	302	F1ZE-AA	GT40 Explorer (1996-97)	64.9	
Ford	302		GT40 Truck	65	3 Vertical bars
Ford	302	F77E-AA	GT40P Explorer (1997 1/4 later)	59.8	
Ford	302	F//E-AA	GTP (Explorer)	60	4 Vertical bars
Ford	302 Boss	C9ZE-A	1969	63	
Ford	302 BOSS		1970	58	
Ford	302 D055	DIZE-A	1970 1970 4 bbl	62	Closed shamber
Ford	3510		1970-74 Evc '70.4 bbl Boss	76.2	Closed chamber
Ford	3510		1971 Boss 351	67	
Ford	351M		1975-81	78.4	
Ford	351W	C9OE-B	1969-74	60.4	
Ford	351W	C9OE-D	1969-74	60.4	
Ford	351W	D0OE-C	1969-74	60.4	
Ford	351W	D0OE-G	1969-74	60.4	
Ford	351W	D0OZ-C	1969-74	60.4	
Ford	351W	D5TE-EB	1975-77	60.4	
Ford	351W	D8OE-AB	1978-80	69	
Ford	352	C6AE-R	1966	74	
Ford	390			74	
Ford	390			74	
Ford	390			74	
Ford	390	C7AF-A		74	
Ford	390	C8AE-H		69	
Ford	390	C0AE-E	1961-62 HP	61	
Ford	390	C2SE-A	1962-63 HP	67	
Ford	390	C4AE-G	1964-65	74	
Ford	390	C6AE-D	1966	74	
Ford	390	C6AE-J	1966	74	
Ford	390	C6AE-K	1966	74	
Ford	390		1966	74	
Ford	390	CATE-G	1966	74	
Ford	390	C6AF-AA	1966-67	74	
Ford	390	C6AE-AB	1966-67	74	
Ford	390	C6OE-AB	1966-67	74	
Ford	390	C6OE-AA	1966-67 Fairlane	74	
Ford	390	C7AE-A	1967	74	
Ford	390	C8AE-A	1968	69	
Ford	390	C8AE-B	1968	69	
Ford	390	C80E-A	1968 1988	69	
Ford	390	COAE-L	1968 Mercury	69	
Ford	390	C8OE-B	1960 Mercury	69	
Ford	390	C80F-F	1969	71	
Ford	390	D2TE-AA	1972-76	74	
Ford	390	D3TE-B	1972-76	74	
Ford	390	D3TE-C	1972-76	74	
Ford	390	D3TE-E	1972-76	74	
Ford	390	D3TE-F	1972-76	74	
Ford	390, 428	60059	Edelbrock	72	
Ford	390, 428	60069	Edelbrock	72	
Ford	390, 420	60080	Edelbrook	70	
Ford	050, 420 4 6l	BEE64E-6090-4E	LICIDIOCK	70 51 77	SOHC
1.014				01.11	00110



Mfar	CID	Casting or ID#	Application	Chamber CC's	Notes
Eord	1.61		Application	51 77	SOHC
Ford	4.0L	REF64E-6090-CC		51.77	SOHC
Ford	4.6	BEXL3E-6090-CZO		43.95	SOHC
Ford	406	C2SE-B	1962	63	00110
Ford	406	C2SE-C	1962-63	66	
Ford	406	C3AF-C	1963	59	
Ford	428	C6AE-AA	1966-67	71	
Ford	428	C8OE-H	1968 CJ	74	
Ford	428	C8AE-F	1968-70	71	
Ford	428	C8OE-N	1968-70 CJ, SCJ	74	
Ford	429, 460	60669	Edelbrock	95	
Ford	429, 460	60679	Edelbrock	75	
Ford	429, 460	61649	Edelbrock	75	
Ford	429, 460	61659	Edelbrock	75	
Ford	429, 460	61669	Edelbrock	75	
Ford	429, 460	TFS-5441B001	Trick Flow	91	
Ford	429, 460	IFS-54411801	I rick Flow	91	
Ford	429/460	C8SZ-B		/6	
Ford	429/460			70	
Fold	429/400	DOVE-C		70	Matarapart
Ford	429/400	1000490429	1072 79	/2	Motorsport
Ford	429/400 Small Block	1387	1973-70 AER	92	AFR 185
Ford	Small Block	1388	ΔFR	58	ΔFR 185
Ford	Small Block	1396	AFB	61	AFR 165 75cc exhaust nort
Ford	Small Block	1396	AFB	61	AFR 185, 75cc exhaust port
Ford	Small Block	1397	AFB	58	AFR 165, 75cc exhaust port
Ford	Small Block	1397	AFR	58	AFR 185, 75cc exhaust port
Ford	Small Block	1398	AFR	61	AFR 165
Ford	Small Block	1399	AFR	58	AFR 165
Ford	Small Block	140	AFR	55	AFR 165
Ford	Small Block	1400	AFR	61	AFR 165
Ford	Small Block	1402	AFR	58	AFR 165
Ford	Small Block	142	AFR	55	AFR 185
Ford	Small Block	1420	AFR	61	AFR 185
Ford	Small Block	1422	AFR	58	AFR 185
Ford	Small Block	145	AFR	55	AFR 205
Ford	Small Block	1450	AFR	58	AFR 205
Ford	Small Block	1451	AFR	58	AFR 225
Ford	Small Block	1452	AFR	55	AFR 205, 75cc exhaust port
Ford	Small Block	140		53	AFR 225
Ford	Small Block	147		55 60	AFR 100 AFR 165
Ford	Small Block	1472		55	AFR 185
Ford	Small Block	1492	AFB	60	AFR 185
Ford	Small Block	BE200	Brodix	46	///////////////////////////////////////
Ford	Small Block	BF201	Brodix	46	
Ford	Small Block	BF202	Brodix	46	
Ford	Small Block	BF300	Brodix	65	
Ford	Small Block	BF301	Brodix	65	
Ford	Small Block	M2 ST 5.0 R	Brodix	66	
Ford	Small Block	M2 Track 1 Ford	Brodix	68	
Ford	Small Block	ST 5.0	Brodix	60	
Ford	Small Block	ST 5.0 R	Brodix	60	
Ford	Small Block	Track 1 Ford	Brodix	68	
Ford	Small Block	20450	Canfield	58	as cast chamber
Ford	Small Block	20450 54	Canfield	54	CNC
Ford	Small Block	20450 58	Canfield	58	CNC
Ford	Small Block	20450 65	Cantield	65	
Ford	Small Diock	105cc Pro 1	Dart		1/000 PT0 1
Ford	Small Block	210cc Pro 1 CNC	Dart		210co Pro 1 CNC
Ford	Small Block	225cc Pro 1 CNC	Dart		225cc Pro 1 CNC
Ford	Small Block	60229	Edelbrock	60	2230011010100
Ford	Small Block	60259	Edelbrock	60	
Ford	Small Block	60269	Edelbrock	60	
Ford	Small Block	60279	Edelbrock	60	
Ford	Small Block	60289	Edelbrock	60	
Ford	Small Block	60299	Edelbrock	60	
Ford	Small Block	60329	Edelbrock	60	
Ford	Small Block	60359	Edelbrock	60	
Ford	Small Block	60379	Edelbrock	60	
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Mfgr.	CID	Casting or ID#	Application	Chamber CC's	Notes
Ford	Small Block	60399	Edelbrock	60	I
Ford	Small Block	61099	Edelbrock	56	
Ford	Small Block	61269	Edelbrock	65	
Ford	Small Block	61279	Edelbrock	65	
Ford	Small Block	77160	Edelbrock	60	
Ford	Small Block	77170	Edelbrock	60	
Ford	Small Block	77189	Edelbrock	60	
Ford	Small Block	77199	Edelbrock	60	
Ford	Small Block	77219	Edelbrock	47	
Ford	Small Block	77289	Edelbrock	48	
Ford	Small Block	77299	Edelbrock	58	
Ford	Small Block	77389	Edelbrock	70	- · · · ·
Ford	Small Block	TFS-51400002	I RICK FLOW	61	I wisted wedge
Ford	Small Block	TFS-51400003	Trick Flow	61	Track Heat
Ford	Small Block	TFS-51400011	Trick Flow	61	Track Heat
Ford	Small Block	TFS-51700001	Trick Flow	64	
Ford	Small Block	TFS-51700002	Trick Flow	64	
Ford	Small Block	TFS-51700700	Trick Flow	64	
Ford	Small Block	TFS-51700701	Trick Flow	64	
Ford	Small Block	TFS-5171B001	Trick Flow	64	
Ford	Small Block	TFS-5171B002		64	Truistad wada a
Ford	Small Block	TES 52400003	Trick Flow	61	I wisted wedge
Ford	Small Block	TFS-52400004	Trick Flow	61	Twisted wedge
Ford	Small Block	TFS-52400006	Trick Flow	61	Twisted wedge
Ford	Small Block	TFS-5240T005	Trick Flow	61	Twisted wedge
Ford	Small Block	TFS-5240T006	Trick Flow	61	Twisted wedge
Ford	Small Block	TFS-5242B003	Trick Flow	61	Twisted wedge
Ford	Small Block	TFS-5242B004	Trick Flow	61	Twisted wedge
Ford	Small Block	023030	World	58	Aluminum
Ford	Small Block	053030	World	58	Straight plug
Ford	400	C3AE-K	1971-02 1963 High Riser	78.4 75	
Ford	427	C3AE-D	1963 Low Riser	66	
Ford	427	C3AF-G	1963 Low Riser	74	
Ford	427	C3AE-H	1963 Low Riser	74	
Ford	427	C4AE-F	1964 High Riser	88	
Ford	427	C3AE-J	1964-65 Low Riser	74	
Ford	427	C5AE-F	1964-67 Medium Riser	88	
Ford	427	C5AE-R	1964-67 Medium Riser	88	
Ford	427	CBAE-J	1968 Low Riser	74 74	
Ford	427	C70F-K	Tunnel Port	88	
Ford	427	C8AX	Tunnel Port	88	
Oldsmobile	260	550362-10 10	1976	57	
Oldsmobile	260	554715-2A 2A	1977-81	57	
Oldsmobile	307	3317-5A 5A	1980-85	67	
Oldsmobile	307	0142-7A 7A	1985-91	64	
Oldsmobile	400, 455	60519 554717 4A 4A	Edelbrock	//	
Oldsmobile	403	389395-R R	1966	80	
Oldsmobile	455	394548-C C	1967-69	79-80	
Oldsmobile	455	400370-D D	1968-69 W-30	72	
Oldsmobile	455	403686-E E	1970	79-80	
Oldsmobile	455	404438-F F	1970 W-30	79	
Oldsmobile	455	409160-H H	1971 W-30	79	
Oldsmobile	455	409100-G G	1971-72	80	
Oldsmobile	455	411/83-J J	1973-76 1072-76 Cutless 440	79	
Oldsmobile	400 350	413191-K K 397742-5 5	1973-70 Ouliass 442	60 64	
Oldsmobile	350	397742-5 5	1968-69 W-31	62.5	2.00 Intake Valves
Oldsmobile	350	403859-6 6	1970	64	
Oldsmobile	350	403859-6 6	1970 W-31	62.5	2.00 Intake Valves
Oldsmobile	350	409147-7 7	1971	70	
Oldsmobile	350	409147-7 7	1972	70	4 Ribs @ end
Oldsmobile	350	411929-8 8	1973-76	79	
Oldsmobile	350	554716-3A 3A	1977-80	/5	
Pontiac	309	9784212 93	1900-00 GIU	00 97	
Pontiac	400, 455	00079 60599		01 79	
i Ullido	-00, -00	00033		16	



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Mfgr.	CID	Castin	g or ID#	Application	Chamber CC's	Notes
Pontiac	455	9799362	64	1970 H.O.	87	
Pontiac	455	483714	66	1971	114	
Pontiac	455	481758	191	1971 H.O.	111	
Pontiac	455	494995	7M5	1972	114	
Pontiac	455	485319	7F6	1972 H.O.	111	
Pontiac	455	485214	16	1973-74 S.D.	111	
Pontiac	400	9788067	670	1967	72	
Pontiac	400	9783657	72	1967 Ram Air	97	
Pontiac	400	9791559	62	1968	75	
Pontiac	400	9792700	37	1968 Ram Air I	72	
Pontiac	400	9794040	96	1968 Ram Air II	72	
Pontiac	400	9790118	16	1968-69	72	
Pontiac	400	9795043	48	1969 RA/H.O.	72	
Pontiac	400	9796721	722	1969 Ram Air IV	71	
Pontiac	400	9799497	13	1970	72	
Pontiac	400	9799496	12	1970 Ram Air III/H.O.	72	
Pontiac	400	9799498	614	1970 Ram Air IV	71	
Pontiac	400	481760	96	1971 GTO	96	
Pontiac	400	485316	7K3	1972	96	



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