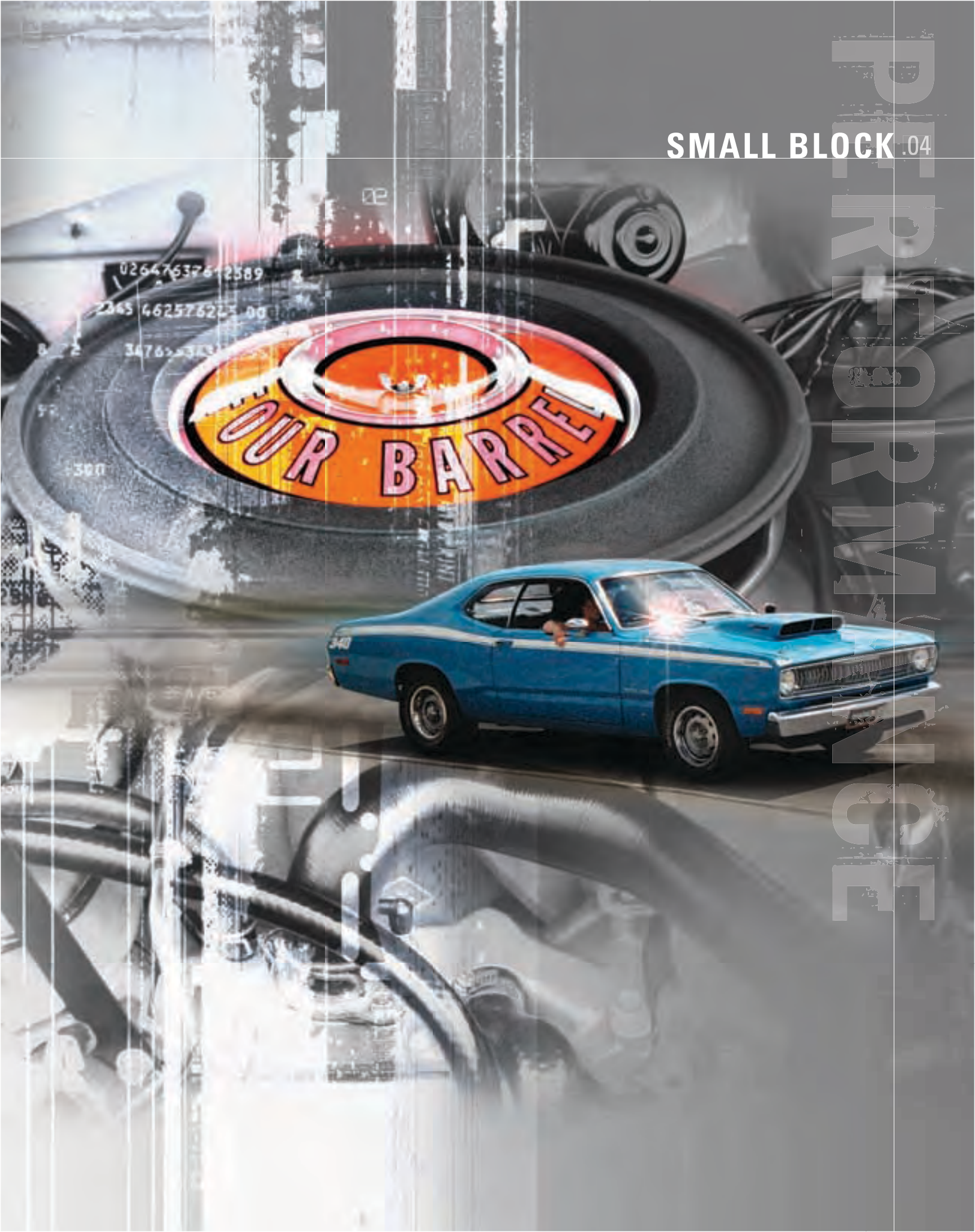


SMALL BLOCK .04



# MOPAR PERFORMANCE TERMS AND CONDITIONS



## NOTICE

Federal and many state laws prohibit the removal, modification or rendering inoperative of any part or element of design affecting emissions or safety on motor vehicles used for transporting persons or property on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle. Mechanical and/or electronic performance parts listed in this catalog with a "1" cannot be used on vehicles used on public streets or highways.

These parts may be used only on vehicles used solely in sanctioned off-highway events. No other applications are intended or implied. Those parts that have been granted an exemption by the California Air Resources Board (CARB) or meet the EPA requirements of memorandum 1A are legal for highway use in California, New York, and Massachusetts and are noted as such.

## NO PARTS WARRANTY – "AS IS"

Mopar Performance parts beginning with a "P" prefix are sold "as is" unless otherwise noted. This means that parts sold by Mopar Performance carry no warranty whatsoever. Implied warranties, such as warranties of merchantability, are excluded. (An implied warranty of merchantability means that the part is reasonably fit for the general purpose for which it was sold). The entire risk as to quality and performance of such parts is with the buyer. Should such parts prove defective following their purchase, the buyer and not the manufacturer, distributor or retailer, assumes the entire cost of all necessary servicing or repair. Chrysler, Jeep®, Dodge and Ram vehicle and parts warranties are voided if the vehicle or parts are used for competition. The addition of performance parts does not by itself void a vehicle's warranty. However, added performance parts (parts not originally supplied on the vehicle from the factory) are not covered by the vehicle's warranty, and any failure that they may cause is also not covered by the vehicle's warranty.

## MOPAR PERFORMANCE CRATE ENGINE 90-DAY LIMITED WARRANTY

Mopar Performance Crate Engine Assemblies not used in competition are warranted for "parts only," AS DELIVERED against defects in materials or workmanship for 90 days from the date of purchase. The following parts, if defective, will be replaced on an exchange basis for 90 days: engine blocks and all internal parts; cylinder head assemblies; intake manifold; core plugs; valve covers; oil pan; timing gear; water pump; gaskets and seals. See your dealer for a copy of the limited warranty, which contains additional terms and limitations.

## MOPAR PARTS 12-MONTH LIMITED WARRANTY

Except parts as listed above, certain parts from Mopar Performance sold over the counter or wholesaled are warranted against defects in workmanship or materials for 12 months/unlimited miles for parts (exchange) only. These parts are identified in this catalog as having a specific part number structure. Part numbers starting with "P" are not covered under the 12-month warranty. Other parts listed in this catalog without a "P" prefix part number are covered under the 12-Month Limited Warranty described here. See your dealer for a copy of the limited warranty, which contains additional terms and limitations. Parts installed on a Chrysler, Plymouth, Jeep®, Dodge and Ram vehicle by an authorized Chrysler, Jeep®, Dodge and Ram dealer are warranted for 12 months/unlimited miles for parts (exchange) only. See your dealer for a copy of the limited warranty, which contains additional terms and limitations.

## **EMISSIONS STATEMENT**

Federal law requires emissions parts on new vehicles to be warranted for at least two years or 24,000 miles, whichever comes first. Federal and many state laws also prohibit the removal, modification or rendering inoperative any part that affects emissions or safety on motor vehicles used on public streets or highways. Many Mopar Performance parts are designated for track use or off-road use only. Installation of certain components may bring the vehicle out of compliance with safety and/or emissions standards. Mopar recommends that vehicles with parts designated in this fashion not be operated on public roads. Mopar Performance customers are responsible for complying with applicable state and local environmental regulations. Additionally, certain performance parts may affect the emissions characteristics of the vehicle. If you install them on the vehicle, and your vehicle consequently fails a required state or local I/M (inspection and maintenance) emissions test, including any test required to maintain or renew your vehicle's registration, or if your vehicle is subject to an emissions recall, Chrysler Group LLC may not be required to repair your vehicle under the emissions performance warranty, and you may be required to remove those parts at your own expense in order to obtain repairs necessary to pass the I/M test or to perform the recall.

## **NOTE — CALIFORNIA ONLY**

The emissions laws and regulations of the state of California apply to all non-racing vehicles operated in California. Consequently, those parts marked in this catalog with a "1" and appropriately marked on their packaging may legally be used in California only on a racing vehicle that will never be operated on public roads.

## **PARTS ORDERING AND INQUIRIES**

The parts in this catalog may be ordered from authorized Chrysler, Jeep®, Dodge and Ram dealerships or the speed shops carrying the Mopar Performance line of products. When a part ordered has been superseded, the replacing part will be shipped automatically. The price of the replacing part may differ from the ordered part. All products, illustrations and specifications are based upon current information at the time of publication approval. Although descriptions are believed correct, complete accuracy cannot be guaranteed. Chrysler Group LLC reserves the right to make changes at any time, without notice or obligation, to the information contained in this printed document, including and without limitation to prices, specifications, equipment, colors, materials, and to change or discontinue products.

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SMALL BLOCK

CRATE ENGINES

A. 440 Super Commando Crate Engine - 530 Horsepower

Big block power and cubic inches in a small block package! Mopar's 440 Super Commando small block stroker crate engine gives you over 500 horsepower on pump gas, and offers the compact size of a small block.

<sup>1</sup> P5153523      Crate Engine, 440 Super Commando, 530 Horsepower, 540 ft.-lbs. Torque

Specifications:

- Bore: 4.185"
- Stroke: 4.000"
- Compression Ratio: 10:1
- Block: 340 Siamese Block with Four-bolt Mains
- Cylinder Heads: Aluminum
- Intake Manifold: Single Plane Four-barrel
- Camshaft: Hydraulic, 251°/257° Duration @ .050", .603" Lift
- Oil Pan: Eight-quart Center Sump Street/Strip Oil Pan
- Crankshaft: Forged 4340
- Pistons: Forged
- Valves: 2.080"/1.600" Stainless, w/ 5/16" Stems
- Connecting Rods: Forged 6.123"
- Rocker Arm: Aluminum Roller with 1.6:1 Ratio

Note: Crate engines that change the emissions performance of the vehicle may not be legal for use on vehicles regulated for highway use in California and other states. Horsepower and torque ratings based on test engine. Ratings may vary on individual engines.

B. 410 Six Pack Crate Engine - 470 Horsepower

Nothing shrinks time and distance like cubic inches and a good induction system.Mopar's new 410 Stroker Small-Block has all the goods for whatever your application is. Basic ingredients include a new 340 block featuring 4-bolt mains, aluminum "LA" heads, high-lift hydraulic camshaft and a 4.00" Stroker heavy-duty forged crankshaft. Topped off with a sexy aluminum "Six Pack" intake manifold and Mopar cast aluminum valve covers. The 410 has the right stuff to impress the troops at the drag strip and on cruise nights.

<sup>1</sup> P5153527      Crate Engine, 410 Six Pack, 470 Horsepower, 490 ft.-lbs. Torque

Specifications:

- Bore: 4.040"
- Stroke: 4.000"
- Compression Ratio: 10:1
- Block: New 340 Replacement Block with Four-bolt Mains
- Cylinder Heads: Aluminum "LA" Heads
- Intake Manifold: Aluminum "Six Pack"
- Camshaft: Hydraulic, 292°/292° Duration; .508" Lift
- Oil Pan: Eight-quart Center Sump Street/Strip Oil Pan

Note: Shown with available carburetors P4349237 Center and P4349238 Outboard (not included).

Note: Crate engines that change the emissions performance of the vehicle may not be legal for use on vehicles regulated for highway use in California and other states. Horsepower and torque ratings based on test engine. Ratings may vary on individual engines.



A.      Shown with carburetor and air cleaner, not included



B.      Shown with carburetors, not included



SMALL BLOCK

CRATE ENGINES

A. 360 Magnum Crate Engine - 405 Horsepower

Mopar offers a high output Magnum 360, now standard with new aluminum Magnum cylinder heads. Mopar testing produced 405 horsepower at 5,900 rpm, with peak torque output of 400 ft.-lbs. at 4,600 rpm. Mopar recommends the use of a 750 cfm Holley carburetor (P4349228) and 1-7/8" exhaust headers (not available through Mopar).

<sup>1</sup> **P5155074**      Crate Engine, 360 Magnum, 405 Horsepower, 400 ft.-lbs. Torque

- Specifications:
- New HP Magnum Block
  - New Aluminum Magnum Cylinder Heads
  - Mopar Cast Aluminum Valve Covers
  - High-Strength Stainless Steel Valves - 2.02" Intake, 1.60" Exhaust
  - Heavy-Duty Valve Springs
  - Hydraulic Roller Camshaft - 288°/292° Advertised Duration
  - Pistons - 10:1 C.R.
  - Single Plane, M1® 4-bbl Aluminum Intake Manifold  
(Includes Bosses for MPI Conversion; Taller than Stock - Check Hood Clearance)
  - Center Sump Oil Pan Similar to Commando Engine  
(Fits Passenger Cars; Pan Swap Required for Truck Use)
  - Mopar Performance Electronic Ignition Kit with Distributor
  - Heavy-Duty Engine Stand and Engine Crate
  - Does Not Include Accessory Brackets
  - Not for Use with Air Conditioning
  - Not Recommended for Factory MPI Replacement
  - Flex Plate P4876706 and a Symmetrical, Neutrally Balanced Torque Converter or Flywheel P5249842 Are Recommended (Not Included)

Note: Uses premium fuel. Crate engines that change the emissions performance of the vehicle may not be legal for use on vehicles regulated for highway use in California and other states. Horsepower and torque ratings based on test engine. Ratings may vary on individual engines.

A.      P5155074

SMALL BLOCK

CRATE ENGINES

A. 340 Six-Pack Crate Engine - 330 Horsepower

The new 340 crate engine is built with all new parts, including a 340 block with four-bolt mains, Aluminum "LA" cylinder heads, HD cast crankshaft, six-pack intake, ignition system, water pump and stock-style front sump oil pan that will fit in most muscle cars.

<sup>1</sup> **P5153526**      Crate Engine, 340 Six-pack, 330 Horsepower, 330 ft-lbs Torque

- Specifications:
- Bore: 4.040"
  - Stroke: 3.310"
  - Compression Ratio: 10:1
  - Block: New 340 Replacement Block with Four-bolt Mains
  - Cylinder Heads: Aluminum "LA"
  - Intake Manifold: Aluminum Six Pack
  - Camshaft: Hydraulic (292°/292° Duration, 0.508" Lift)
  - Oil Pan: Stock Style Center Sump - Fits Most Muscle Cars

Note: Shown with Available Carburetors - P4349241 Center, P4349239 Outboard (not included).

Note: Crate engines that change the emissions performance of the vehicle may not be legal for use on vehicles regulated for highway use in California and other states. Horsepower and torque ratings based on test engine. Ratings may vary on individual engines.

BLOCKS

Long Block Assemblies (Not Shown)

<sup>1</sup> **P5153947**      Block, Long Assembly, 5.9L/360 Magnum



A.      Shown with carburetors, not included

SMALL BLOCK

BLOCKS

A. Short Block Assemblies

- These Short Block Assemblies are built with all-new components including block, crankshaft, connecting rods, pistons and camshaft bearings. Does not include camshaft, timing cover or timing set.
- <sup>1</sup> P5153907 Block, Short Assembly, 4.000" Bore, 3.580" Stroke, 5.9L Magnum/ 360 "LA"
  - <sup>1</sup> P5153908 Block, Short Assembly, 4.040" Bore, 3.310" Stroke, 340 "LA"
  - <sup>1</sup> P5153909 Block, Short Assembly, 4.040" Bore, 4.000" Stroke, 410 "LA", Stroker 340
  - <sup>1</sup> P5153910 Block, Short Assembly, 4.185" Bore, 4.000" Stroke, 440 "LA", Stroker 340

See chart for additional information.

Note: Short Block Assemblies that change the emissions performance of the vehicle may not be legal for use on vehicles regulated for highway use in California and other states.



A.



A.

MAGNUM / "LA" SHORT BLOCKS

Part Number	Displacement	Block Type	Deck Height	Bore	Stroke	Crankshaft	Piston	Rods	Comp Height	Comp Ratio/ CC Size
P5153907	360	Magnum/ "LA"	9.6	4.000"	3.58"	Cast	Cast	Forged 6.123"	1.667"	9:1 w/ 60cc
P5153908	340	"LA"	9.6	4.040"	3.31"	Cast	Cast	Forged 6.123"	1.840"	10:1 w/ 63cc
P5153909	410	"LA"	9.6	4.040"	4.00"	Forged	Forged	Forged 6.123"	1.450"	10:1 w/ 63cc
P5153910	440	"LA"	9.6	4.185"	4.00"	Forged	Forged	Forged 6.123"	1.350"	10:1 w/ 63cc

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)  
<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

SMALL BLOCK

BLOCKS

A. HP Magnum and "LA" Blocks

Magnum and "LA" Blocks are designed for general high performance use and entry level racing.

- Features:
- Ready for assembly without the need for any additional machining
  - Bored and honed to standard bore size
  - Camshaft Bearings and freeze plugs installed in block
  - Hardware kit included
  - Ductile Iron Main Caps with ARP bolts (four-bolt on the center three caps)
  - Dual motor mounts with "LA" and Magnum mounts (must use late 1970s 318 mount for left side)
  - Heavy duty casting with thicker deck and bore walls
  - Works with all stock-style engine components
  - P5153452 & P5153579 work with Magnum stock-style Hydraulic Roller Camshafts (requires tappet retainer kit P5155275)
  - Not recommended for use with aftermarket tie bar style mechanical roller tappets
  - Siamese Bore (all except P5007552AB) - allows up to 4.220" bore size
  - Standard deck height - 9.600"
  - Setup for wet sump oiling system with oil drain holes in the valley
  - Magnum blocks can also be used for "LA" applications with dual oiling system provisions (LA oil passages to heads or Magnum oiling through pushrods, and flat tappet or hydraulic roller cams)
  - MPI provisions for Magnum crank trigger
  - 59° Tappet Bore - works with all stock-style cylinder heads and camshafts
  - P5153579 requires use of 318/340 "LA" oil pan (stock 5.2L Magnum oil pan will not fit)

- <sup>1</sup> **P5153478AB** Block, Cast Iron, 340 Replacement, Siamese-bore, 4.040" Finished Bore
- <sup>1</sup> **P5007552AB** Block, Cast Iron, 340, Non-Siamese-bore, 4.040" Finished Bore
- <sup>1</sup> **P5153743** Block, Cast Iron, Race, 340 Replacement, Siamese-bore, 4.175" Rough Bore
- <sup>1</sup> **P5153579** Block, Cast Iron, Race, 5.2L Magnum/318 "LA", Siamese-bore, 3.910" Finished Bore
- <sup>1</sup> **P5153452** Block, Cast Iron, Race, 5.9L Magnum/360 "LA", Siamese-bore, 4.000" Finished Bore

See chart for additional information.

Note: P5153478AB is not legal for NHRA Stock Eliminator race applications. Use P5007552AB.



A. P5007552AB



A.

SMALL BLOCK ENGINE DISPLACEMENT\*

Stroke	Bore										
	3.910"	3.940"	3.970"	4.000"	4.030"	4.040"	4.060"	4.100"	4.125"	4.180"	4.220"
3.31"	318	323	328	333	338	340	343	350	354	363	370
3.58"	344	349	355	360	365	367	371	378	383	393	401
3.79"	364	370	375	381	387	389	392	400	405	416	424
4.00"	384	390	396	402	408	410	414	422	427	439	448
4.25"	408	414	421	427	433	436	440	449	454	466	476

\* Cubic Inches



## SMALL BLOCK

### ENGINE BLOCK HARDWARE

#### A. Engine Teardown Gaskets

Engine Teardown Gasket Set includes all gaskets needed for complete engine teardown: oil pan, cylinder head, valve cover, timing chain case cover, intake manifold and oil pump gaskets.

- P4120692** Gasket, Engine Teardown, 340/360 Small Block
- P4876248** Gasket, Engine Teardown, 5.2L Magnum Jeep/Truck
- P4876249** Gasket, Engine Teardown, 5.9L Magnum Jeep/Truck

#### B. Engine Bearing

Two sets are required for complete engine installation. Comes with narrow #5 Main Bearing- Std. size H-Series bearing with 1/2 groove. race use only.

- P5153513** Main Bearings, Standard, 318/340

#### C. Block Hardware Package

Includes all the necessary dowels, plugs, bushings, and keys, as well as core plugs, rear cam bearing plug, drive gear bushing, head dowels and oil filter plate (with gasket and fitting).

- P5249261AB** Hardware Package, Block, (oil filter plate and gasket will not fit 1965-'92 273/318/340/360 "LA" engines- use Mopar part numbers - plate 2402103, and gasket 04897939AA)

#### D. Brass Core Plugs

Round, press-in engine block Brass Core Plugs will never rust and fit standard or Mopar race cast iron blocks.

- P5249706** Freeze Plugs, Brass

#### E. Front Cover Gasket

For 5.2L/5.9L Dodge Truck Magnum and Jeep engines.

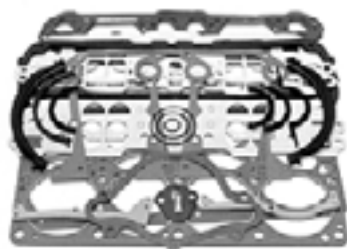
- P4876052** Gasket, Front Cover, 5.2L/5.9L Dodge Truck Magnum/Jeep Engines

### CRANKSHAFTS AND HARDWARE

#### F. Forged Crankshafts

Surface hardened, Forged Crankshafts feature radiused fillets at main and rod journals, six-bolt flange, 4340 steel. Requires balancing. 4.00" stroke cranks require clearancing on block.

- <sup>1</sup> **P5007253** Crankshaft, Forged, 3.58" Stroke, 318/340 Main
- <sup>1</sup> **P5007255** Crankshaft, Forged, 3.58" Stroke, 360 Main
- <sup>1</sup> **P5007252** Crankshaft, Forged, 4.00" Stroke, 318/340 Main
- <sup>1</sup> **P5007254** Crankshaft, Forged, 4.00" Stroke, 360 Main



A.



B.



C.



D.



E.



F.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

SMALL BLOCK

CRANKSHAFTS AND HARDWARE

A. Cast Crankshafts

Special heavy-duty Cast Crankshafts with radiused fillets. Features six-bolt pattern on crank flange. Requires balancing. 4.00" stroke cranks require clearancing on block.

- <sup>1</sup> P5007257 Crankshaft, Cast Iron, 3.58" Stroke, 318/340 Main
- <sup>1</sup> P5007259 Crankshaft, Cast Iron, 3.58" Stroke, 360 Main Small Block, 5.9L Magnum Jeep/Truck
- <sup>1</sup> P5007256 Crankshaft, Cast Iron, 4.00" Stroke, 318/340 Main
- <sup>1</sup> P5007258 Crankshaft, Cast Iron, 4.00" Stroke, 360 Main Small Block, 5.9L Magnum Jeep/Truck

B. Crank Bolt Set

Heavy-duty bolts used to attach the vibration damper to the crankshaft.

- P5249557AB Bolt Set, Crank, 2.25" Length, 426 Hemi/ Big Block/ Small Block/ Aftermarket Dampers

C. Crank Key Package

Used to locate the crankshaft sprocket on the nose of the crankshaft. Contains two keys.

- P5249822 Key Package, Crank, 426 Hemi/ Big Block/ Small Block/ Slant Six

VIBRATION DAMPERS

D. Vibration Damper- SFI Approved

Features a steel ring and a universal front pulley mount pattern.

- <sup>1</sup> P5249690 Vibration Damper, Steel, 1967-91 273/318 Small Block, 1968-71 340 Small Block Forged Crank

E. Vibration Damper







Production-style Crank Vibration Damper is designed for all production-balanced Small Block engines. Not SFI- approved.

- <sup>1</sup> P5007187AB Vibration Damper, 5.9L Truck Magnum/Jeep Engines, 360 Magnum Crate Engines
- <sup>1</sup> P5007301 Vibration Damper, Externally Balanced, 1971-92 360 "A" Engines, pre-Magnum Short Blocks P4876907 and P4876908
- <sup>1</sup> P4452816 Vibration Damper, Internally Balanced, 1967-91 273/318, 1968-early 1972 340 Forged Crank

F. Damper Degree Timing Tape

Improve timing accuracy with this Damper Degree Timing Tape. Marked in 90° increments. Self-adhesive strip adheres to the Crank Vibration Damper for clear identification of marks. Permits reading up to 60° instead of only 10°-15° as on chain case timing tab.

- P4529070AB Damper Degree Timing Tape

	
A.	B.
	
C.	D.
	
E.	F. Damper Not Included

## SMALL BLOCK

### VIBRATION DAMPERS

#### A. Oil Slinger

Protects front seal from excessive oil contact. Forces lubricant oil into chain.

**P5249636** Oil Slinger, 426 Hemi/ Big Block/ Small Block/ Slant Six/ 3.9L V6

### TIMING CHAIN AND SPROCKETS

#### B. All-Out Race Chain and Sprockets

Matched sprockets and double roller chain for all-out race applications. Kits feature three matched keyways to adjust cam timing. Includes magna-fluxed sprockets and roller timing chains.

<sup>1</sup> **P4876559** Chain and Sprockets, 0.005" Oversize, Race

<sup>1</sup> **P5249131** Chain, Double, Roller, Replacement, Cloyes Race Application

#### C. Double Roller Chain and Sprocket

High-strength Double Roller Chain provides added durability and decreased rotational friction versus production silent chain.

<sup>1</sup> **P5249131** Chain, Double, Roller, Replacement, Cloyes Race Application

<sup>1</sup> **P5249267** Chain, Double, Roller, with Sprockets, One-bolt Mount, Three Matched Keyways, Small Block, 5.2L/5.9L Magnum/Jeep Engines

#### D. Timing Chain Tensioner

Stabilizes cam timing by reducing timing chain slack. Can be used in place of thrust plate (P5249637).

<sup>1</sup> **P5007709** Timing Chain Tensioner, Small Block/ 3.9L/ 5.2L/ 5.9L Truck/Magnum/Jeep Engines

#### E. Front Cover Seal and Gasket

**P4876280** Seal, Front Cover, 426 Hemi/ Big Block/ Small Block

**P4876700** Gasket, Front Cover, for Short Deck Race Blocks (9.00"-9.20"), use with Covers P4876631-32

#### F. Timing Chain Covers

<sup>1</sup> **P5249930AB** Cover, Timing Chain, Production, Includes Seal and Gasket, 9.600" Deck, Small Block and V6

<sup>1</sup> **P4876632** Cover, Timing Chain, Sand Cast, Race, 9.00"-9.20" Deck, Race Water Pump/Front Motor Plate

#### G. Bolt Set, Chrome, Front Timing Cover

Package includes a complete set of chrome bolts for timing chain covers.

**P4529256** Bolt Set, Chrome, Water Pump, 1969-92 "A" Engine



A.



B/C.



D.



E.



F.



G.

## SMALL BLOCK HIGH PERFORMANCE CAMSHAFTS

Mopar Part Number	Valve Setting		RPM Operating Range	DURATION				VALVE LIFT		LOBE SEP ANGLE	Notes
				ADVERTISED		@ .050"	W/ 1.6 ROCKER				
	Intake	Exhaust		IN.	EX.	IN.	EX.	IN.	EX.		
XTREME ENERGY™ Hydraulic Flat Tappet Camshafts											
P5155541	Hyd.	Hyd.	800 to 4800	250	260	206	212	.432	.444	110°	Very strong torque excellent mileage, smooth idle.
P5155542	Hyd.	Hyd.	1000 to 5200	256	268	212	218	.447	.455	110°	Strong torque through low end and mid-range, good idle.
P5155543	Hyd.	Hyd.	1300 to 5600	262	270	218	224	.462	.470	110°	Excellent response, good mileage, stock converter, 3.23-4.10 gear.
P5155544	Hyd.	Hyd.	1600 to 5800	268	280	224	230	.477	.480	110°	Great for street machines, largest cam for stock converter, 273-318 works best with 2000 stall.
P5155545	Hyd.	Hyd.	1800 to 6000	274	286	230	236	.488	.491	110°	Very strong torque and throttle response, 2200+ stall.
P5155546	Hyd.	Hyd.	2300 to 6500	284	296	240	246	.507	.510	110°	Street/strip, needs 3000+ stall, headers, gears, rough idle.
P5155547	Hyd.	Hyd.	3000 to 7000	294	306	250	256	.519	.524	110°	Pro Street/bracket, good intake, headers, gear, 3500+ stall.
MAGNUM MUSCLE Hydraulic Flat Tappet Camshafts (Today's Version Of Yesterday's Muscle Car Cams)											
P5155548	Hyd.	Hyd.	1800 to 5800	268	276	222	226	.464	.464	110°	Factory I.D. #2893206 for: *340c.i., 1970, factory 290 hp.      * 340c.i., 1968-71, factory 275 hp. * 340c.i., 1972-73, factory 240 hp
DRAG RACE Hydraulic Flat Tappet Camshafts											
P5155549	Hyd.	Hyd.	3500 to 6500	305	305	253	253	.525	.525	110°	Needs 4000+ stall. Headers, manifold, 750 CFM.
XTREME ENERGY™ Retro-Fit Hydraulic Roller Camshafts											
P5155550	Hyd.	Hyd.	1400 to 5500	268	276	218	224	.535	.531	110°	3.23-3.91 gears, stock converter in 340 and 360, mild converter in 318, 9:1 compression, street machine.
P5155551	Hyd.	Hyd.	1800 to 5800	274	282	224	230	.538	.534	110°	3.55-4.10 gears, 2200+ stall, 9:1 compression, headers, high performance street.
P5155552	Hyd.	Hyd.	2200 to 6000	280	288	230	236	.541	.537	110°	3.91+ gears, 9.5:1 compression, 2500+ stall, aftermarket intake, headers.
P5155553	Hyd.	Hyd.	2500 to 6200	286	294	236	242	.544	.541	110°	3.91+ gears, 2800+ stall, 9.5:1 compression, needs headers rough idle, street strip.
P5155554	Hyd.	Hyd.	2800 to 6400	292	300	242	248	.549	.544	110°	4.10 gear, 3000+ stall, 10:1 compression, Pro Street applications, very rough idle.
COMPUTER CONTROLLED Hydraulic Roller Camshafts (1985-92 w/ Shaft Rockers & Mech. Fuel Pump, Long Snout)											
P5155555	Hyd.	Hyd.	700 to 4800	254	262	199	206	.450	.450	112°	Best in a 318 Magnum engine. Good towing cam for Dakota P/U. This cam has oil holes and a long snout.
P5155556	Hyd.	Hyd.	800 to 5000	262	264	206	210	.450	.480	112°	Best in a 360 Magnum engine. Good towing cam for full size P/U. Good performance cam for Dakota. This cam has oil holes and a long snout, may require computer modifications.
P5155557	Hyd.	Hyd.	900 to 5200	264	274	210	220	.480	.480	112°	Best performance cam for 360 Magnum engine. This cam has oil holes and a long snout, will require computer modifications.
COMPUTER CONTROLLED Hydraulic Roller Camshafts (1988-91 w/ Shaft Rockers & Electric Fuel Pump, Short Snout)											
P5155558	Hyd.	Hyd.	700 to 4800	254	262	199	206	.450	.450	112°	Factory replacement for fuel injected engines with shaft mounted rocker arms. Good torque cam in 318.
P5155559	Hyd.	Hyd.	800 to 5000	262	264	206	210	.450	.480	112°	Performance cam for 318. Good towing cam for 360. May require computer modifications.
P5155560	Hyd.	Hyd.	900 to 5200	264	274	210	220	.480	.480	112°	High performance cam for 360. Will require computer modifications.
XTREME ENERGY™ Computer Controlled Hydraulic Roller Camshafts For 1992-02 Magnum Engines (WITH 1.6 ROCKERS)											
P5155561	Hyd.	Hyd.	700 to 4800	258	264	206	212	.480	.480	112°	Super strong torque cam for 318, idle to 4500 rpm.
P5155562	Hyd.	Hyd.	1000 to 5000	264	270	212	218	.480	.480	114°	Strong towing cam for 360, performance cam for 318 with better exhaust and computer modifications.
P5155563	Hyd.	Hyd.	1200 to 5400	265	273	216	224	.506	.506	114°	Performance cam for 360. 1200-5400 rpm. Likes lower gears and exhaust. Will require computer modifications.
COMPUTER CONTROLLED Hydraulic Roller Camshafts For 1992-02 Magnum Engines (WITH 1.6 ROCKERS)											
P5155564	Hyd.	Hyd.	700 to 4800	254	262	199	206	.480	.480	112°	Factory replacement for 318 with strong torque.
P5155565	Hyd.	Hyd.	800 to 5000	262	264	206	210	.480	.512	112°	Performance street cam for 318. Excellent torque in 360. May require computer modifications.
P5155566	Hyd.	Hyd.	900 to 5200	264	274	210	220	.512	.512	112°	High performance cam for 360. Will require computer modifications.
XTREME ENERGY™ Solid Mechanical Flat Tappet Camshafts											
P5155567	.016	.018	2000 to 6000	268	274	230	236	.488	.501	110°	340-360 street/strip use. 9:1 compression with 2500 stall, strong mid-range.
P5155568	.016	.018	2200 to 6200	274	280	236	242	.502	.511	110°	Great for street machines and mild bracket racing. 9.5:1 compression with 2800 stall, lopy idle.
P5155569	.016	.018	2500 to 6500	282	290	244	252	.520	.540	110°	Serious street/strip effort, needs 10:1 compression, single plane intake and 3000 stall. Radical idle.



# SMALL BLOCK HIGH PERFORMANCE CAMSHAFTS (CONTINUED)

Mopar Part Number	Valve Setting		RPM Operating Range	DURATION				VALVE LIFT		LOBE SEP ANGLE	Notes
	Intake	Exhaust		ADVERTISED		@ .050"		W/ 1.6 ROCKER			
				IN.	EX.	IN.	EX.	IN.	EX.		
DRAG RACE Solid Mechanical Flat Tappet Camshafts											
P5155570	.020	.022	3500 to 6500	281	299	252	262	.542	.595	106°	2500+ converter in 360 or 3800+ in 340. Needs single plane intake and 10.5:1 compression. Excellent low end and mid-range torque.
P5155571	.026	.028	4000 to 7000	290	290	255	255	.540	.540	106°	318-340: 4000+ stall 750 CFM, manifold. 4.88 gear. 10.5:1+ compression.
P5155572	.020	.022	4000 to 7000	290	304	260	266	.568	.565	106°	Best all around bracket cam. 4000+ converter in 360 or 4300+ stall in 340, min. compression ratio is 11:1.
P5155573	.018	.020	4200 to 7400	295	312	266	274	.570	.572	106°	4500 converter in 360 or 4800+ stall in 340. 11.5:1 compression.
P5155574	.018	.020	4500 to 7500	300	316	270	278	.579	.578	106°	Good Super Street or fast bracket cam. Works best with 12:1 compression and 5000+ converter.
XTREME ENERGY Mechanical Roller Camshafts											
P5155575	.016	.018	2000 to 6000	268	274	230	236	.552	.564	110°	Good for mild street/strip use with 9:1 compression and a 2500 stall. Noticeable idle.
P5155576	.016	.018	2200 to 6300	274	280	236	242	.564	.570	110°	Serious street/strip use. 9.5:1 compression with 2800+ stall. Lopey idle.
P5155577	.016	.018	2500 to 6500	280	286	242	248	.570	.576	110°	3000 stall with 10:1 compression, strong mid-range with a radical idle.
P5155578	.016	.018	2800 to 6800	286	292	248	254	.576	.582	110°	3300 + stall with 10:1 compression. Strong top end with a racey idle.
DRAG RACE Mechanical Roller Camshafts											
P5155579	.020	.022	4200 to 7400	295	303	263	270	.649	.651	106°	Good all around bracket cam. 4200+ stall in 360 or 4500+ stall in 340, 11.5:1 compression.
P5155580	.020	.022	4500 to 7500	302	309	269	276	.654	.655	106°	Good Super Street or bracket cam. 11.5:1 compression with 4500+ stall.
P5155581	.026	.028	4800 to 7800	308	317	275	284	.658	.661	108°	Good Super Gas or Fast Bracket cam. 12:1 compression with 5500+ stall.
P5155582	.026	.028	5500 to 8000	314	321	281	288	.661	.664	110°	Good Super Gas, Super Comp or Fast Bracket cam, medium to large cubic inch engines with 6000+ converter.

SMALL BLOCK

CAMSHAFTS, LIFTERS, AND HARDWARE

A. Camshafts, High Performance, Hydraulic

<sup>1</sup> P5155541	Camshaft, Hydraulic, 0.432 / 0.444 Lift, 250 / 260 Adv. Duration
<sup>1</sup> P5155542	Camshaft, Hydraulic, 0.447 / 0.455 Lift, 256 / 268 Adv. Duration
<sup>1</sup> P5155543	Camshaft, Hydraulic, 0.462 / 0.470 Lift, 262 / 270 Adv. Duration
<sup>1</sup> P5155548	Camshaft, Hydraulic, 0.464 / 0.464 Lift, 268 / 276 Adv. Duration
<sup>1</sup> P5155544	Camshaft, Hydraulic, 0.477 / 0.480 Lift, 268 / 280 Adv. Duration
<sup>1</sup> P5155545	Camshaft, Hydraulic, 0.488 / 0.491 Lift, 274 / 286 Adv. Duration
<sup>1</sup> P5155546	Camshaft, Hydraulic, 0.507 / 0.510 Lift, 284 / 296 Adv. Duration
<sup>1</sup> P5155547	Camshaft, Hydraulic, 0.519 / 0.524 Lift, 294 / 306 Adv. Duration
<sup>1</sup> P5155549	Camshaft, Hydraulic, 0.525 / 0.525 Lift, 305 / 305 Adv. Duration
<sup>1</sup> P5155555	Camshaft, Hydraulic Roller, 0.450 / 0.450 Lift, 254 / 262 Adv. Duration
<sup>1</sup> P5155558	Camshaft, Hydraulic Roller, 0.450 / 0.450 Lift, 254 / 262 Adv. Duration
<sup>1</sup> P5155556	Camshaft, Hydraulic Roller, 0.450 / 0.480 Lift, 262 / 264 Adv. Duration
<sup>1</sup> P5155559	Camshaft, Hydraulic Roller, 0.450 / 0.480 Lift, 262 / 264 Adv. Duration
<sup>1</sup> P5155564	Camshaft, Hydraulic Roller, 0.480 / 0.480 Lift, 254 / 262 Adv. Duration
<sup>1</sup> P5155561	Camshaft, Hydraulic Roller, 0.480 / 0.480 Lift, 258 / 264 Adv. Duration
<sup>1</sup> P5155562	Camshaft, Hydraulic Roller, 0.480 / 0.480 Lift, 264 / 270 Adv. Duration
<sup>1</sup> P5155557	Camshaft, Hydraulic Roller, 0.480 / 0.480 Lift, 264 / 274 Adv. Duration
<sup>1</sup> P5155560	Camshaft, Hydraulic Roller, 0.480 / 0.480 Lift, 264 / 274 Adv. Duration
<sup>1</sup> P5155565	Camshaft, Hydraulic Roller, 0.480 / 0.512 Lift, 262 / 264 Adv. Duration
<sup>1</sup> P4876348	Camshaft, Hydraulic Roller, 0.501 / 0.513 Lift, 230/234 Adv. Duration
<sup>1</sup> P5155563	Camshaft, Hydraulic Roller, 0.506 / 0.506 Lift, 265 / 273 Adv. Duration
<sup>1</sup> P5155566	Camshaft, Hydraulic Roller, 0.512 / 0.512 Lift, 264 / 274 Adv. Duration
<sup>1</sup> P5155550	Camshaft, Hydraulic Roller, 0.535 / 0.531 Lift, 268 / 276 Adv. Duration
<sup>1</sup> P5155551	Camshaft, Hydraulic Roller, 0.538 / 0.534 Lift, 274 / 282 Adv. Duration
<sup>1</sup> P5155552	Camshaft, Hydraulic Roller, 0.541 / 0.537 Lift, 280 / 288 Adv. Duration
<sup>1</sup> P5155553	Camshaft, Hydraulic Roller, 0.544 / 0.541 Lift, 286 / 294 Adv. Duration
<sup>1</sup> P5155554	Camshaft, Hydraulic Roller, 0.549 / 0.544 Lift, 292 / 300 Adv. Duration



A.

SMALL BLOCK

CAMSHAFTS, LIFTERS, AND HARDWARE

A. Camshafts, High Performance, Mechanical



A.

<sup>1</sup> P5155567	Camshaft, Mechanical, 0.488 / 0.501 Lift, 268 / 274 Adv. Duration
<sup>1</sup> P5155568	Camshaft, Mechanical, 0.502 / 0.511 Lift, 274 / 280 Adv. Duration
<sup>1</sup> P5155569	Camshaft, Mechanical, 0.520 / 0.540 Lift, 282 / 290 Adv. Duration
<sup>1</sup> P5155571	Camshaft, Mechanical, 0.540 / 0.540 Lift, 290 / 290 Adv. Duration
<sup>1</sup> P5155570	Camshaft, Mechanical, 0.542 / 0.555 Lift, 281 / 299 Adv. Duration
<sup>1</sup> P5155572	Camshaft, Mechanical, 0.558 / 0.555 Lift, 290 / 304 Adv. Duration
<sup>1</sup> P5155573	Camshaft, Mechanical, 0.570 / 0.572 Lift, 295 / 312 Adv. Duration
<sup>1</sup> P5155574	Camshaft, Mechanical, 0.579 / 0.578 Lift, 300 / 316 Adv. Duration
<sup>1</sup> P5155575	Camshaft, Mechanical Roller, 0.552 / 0.564 Lift, 268 / 274 Adv. Duration
<sup>1</sup> P5155576	Camshaft, Mechanical Roller, 0.564 / 0.570 Lift, 274 / 280 Adv. Duration
<sup>1</sup> P5155577	Camshaft, Mechanical Roller, 0.570 / 0.576 Lift, 280 / 286 Adv. Duration
<sup>1</sup> P5155578	Camshaft, Mechanical Roller, 0.576 / 0.582 Lift, 286 / 292 Adv. Duration
<sup>1</sup> P5155579	Camshaft, Mechanical Roller, 0.649 / 0.651 Lift, 296 / 303 Adv. Duration
<sup>1</sup> P5155580	Camshaft, Mechanical Roller, 0.654 / 0.655 Lift, 302 / 309 Adv. Duration
<sup>1</sup> P5155581	Camshaft, Mechanical Roller, 0.658 / 0.661 Lift, 308 / 317 Adv. Duration
<sup>1</sup> P5155582	Camshaft, Mechanical Roller, 0.661 / 0.664 Lift, 314 / 321 Adv. Duration

See chart for additional information.

B. Camshafts, Purple Shaft, Hydraulic



B.

All Mopar Purple Shaft performance camshafts are designed, developed, dyno'd and track-tested by engineers for increased power and rpm potential while maintaining reliability and the best possible low-speed characteristics, including torque and idle quality. Each package contains the camshaft, instruction sheet, and tappets.

<sup>1</sup> P4452757AC	Camshaft, 0.410"/0.425" Lift, 248/256 Adv. Duration
<sup>1</sup> P4452782AC	Camshaft, 0.429"/0.444" Lift, 228/235 Adv. Duration
<sup>1</sup> P4452759AC	Camshaft, 0.430"/0.450" Lift, 260/268 Adv. Duration
<sup>1</sup> P4452761AC	Camshaft, 0.450"/0.455" Lift, 268/272 Adv. Duration
<sup>1</sup> P4452992AC	Camshaft, 0.474"/0.474" Lift, 280/280 Adv. Duration
<sup>1</sup> P4120231AC	Camshaft, 0.484"/0.484" Lift, 284/284 Adv. Duration
<sup>1</sup> P4120233AC	Camshaft, 0.508"/0.508" Lift, 292/292 Adv. Duration

Note: Mopar recommends the use of a high zinc oil for maximum durability for flat tappet camshafts.

SMALL BLOCK

CAMSHAFTS, LIFTERS, AND HARDWARE

A. Camshafts, Purple Shaft, Mechanical

All Mopar Purple Shaft performance camshafts are designed, developed, dyno'd and track-tested by engineers for increased power and rpm potential while maintaining reliability and the best possible low-speed characteristics, including torque and idle quality. Each package contains the camshaft, instruction sheet, and tappets.

- <sup>1</sup> P4120653AC Camshaft, 0.528"/0.528" Lift, 284/284 Adv. Duration
- <sup>1</sup> P4120655AC Camshaft, 0.557"/0.557" Lift, 296/296 Adv. Duration
- <sup>1</sup> P4120657AC Camshaft, 0.590"/0.590" Lift, 312/312 Adv. Duration

See chart for additional information.

Note: Mopar recommends the use of a high zinc oil for maximum durability for flat tappet camshafts.

B. Camshafts, Roller UGL, Race

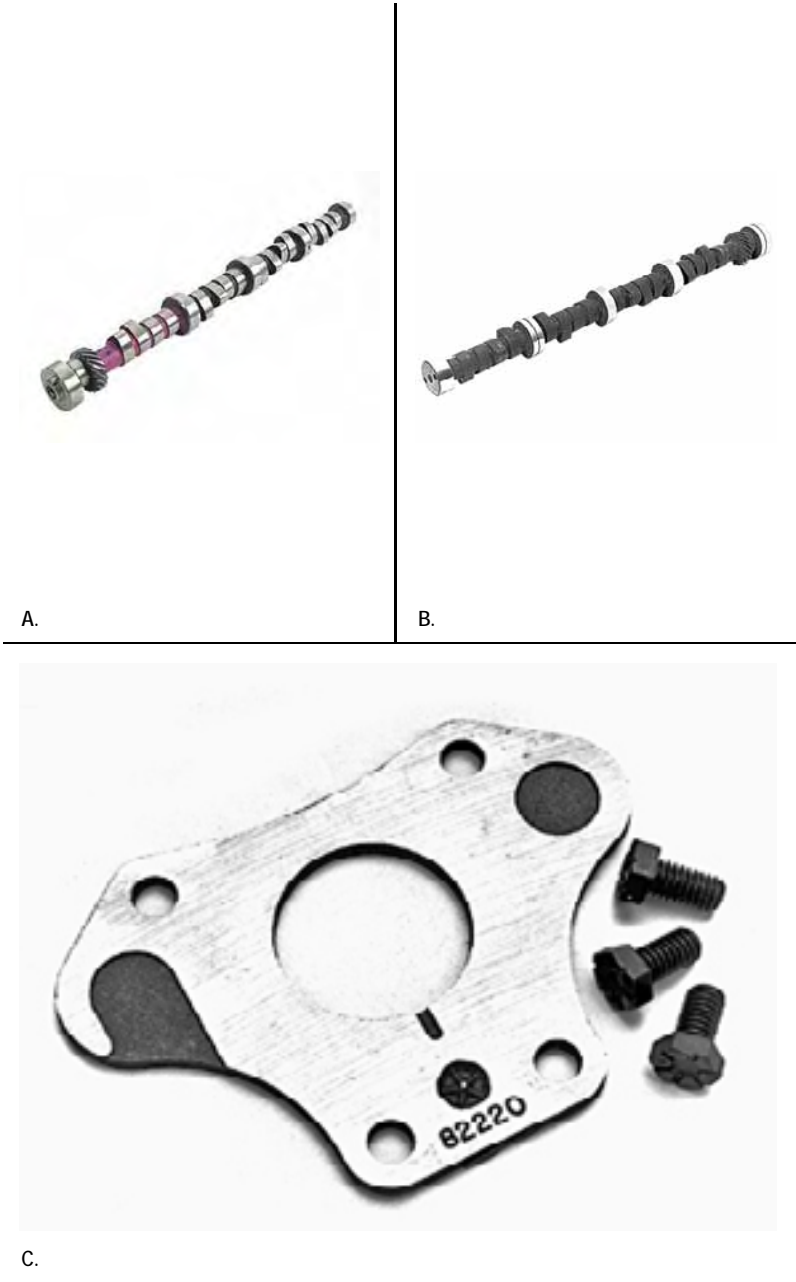
The 48° tappet "R" blocks (R1, R2, R3, R4) require special camshafts. These UGL (unground lobe) camshafts enable cam grinders to grind specific cam profiles to create a finished cam. Cannot be used in engine as is.

- <sup>1</sup> P5007932 Camshaft, Roller, UGL, Race, Roller Tappets, for 50 mm Roller Bearings P4876707, "R" Blocks
- <sup>1</sup> P5007437 Camshaft, Roller, UGL, Race, Roller Tappets, for 60 mm Roller Bearings P5007361, "R" Blocks
- <sup>1</sup> P4876633 Camshaft, Roller, UGL, Race, Roller Tappets, for Babbitt Bearings P4876372, "R" Blocks

C. Camshaft Plate Kit

Designed to take the thrust of the camshaft. Includes the cam plate and all necessary bolts.

- P5249637 Camshaft Plate Kit



SMALL BLOCK PURPLE SHAFT CAMSHAFTS

Part No.	Advertised Duration	@ 0.50"	O-Lap	Center Line	Lift	Recom. Spring	Basic RPM	Applications and Comments
Hydraulic Camshafts								
P4452757	248/256	211/218	32	110	0.410/0.425	P4286813	1000 – 5000	Drag mild comp and perf RV
P4452782	268/276	228/235	44	114	0.429/0.444	P4120249	Idle – 5800	Muscle car – factory original
P4452759	260/268	221/228	44	110	0.430/0.450	P4286813	1200 – 5200	Drag mild comp and high perf RV
P4452761	268/272	228/231	50	110	0.450/0.445	P4120249	1500 – 5800	Drag light comp and good mid-range
P4452992	280/280	238/238	60	110	0.474/0.474	P4120249	2000 – 6000	Drag mild comp w/ auto or 4 speed
P4120231	284/284	241/241	68	108	0.484/0.484	P4120249	2600 – 6000	Drag mod. comp w/ auto or 4 speed
P4120233	292/292	248/248	76	108	0.508/0.508	P5249847	2800 – 6200	Drag modified comp
P4529317	320/320	272/272	104	108	0.533/0.533	P5249847	3800 – 6400	Drag mod. comp w/ auto or 4 speed
Mechanical Camshafts								
P4120653	284/284	241/241	60	112	0.528/0.528	P5249847	2800 – 6900	Drag modified comp
P4120655	296/296	252/252	76	110	0.557/0.557	P3614542	3400 – 7200	Drag pro comp, man & high stall auto
P4120657	312/312	265/265	104	106	0.590/0.590	P3614542	4000 – 7500	Drag pro comp, auto. w/race conv.



 <p>A.</p>	 <p>B.</p>
 <p>C.</p>	 <p>D.</p>
 <p>E.</p>	 <p>F.</p>
 <p>G.     P5153848</p>	 <p>H.</p>

SMALL BLOCK

CAMSHAFTS, LIFTERS, AND HARDWARE

A. Camshaft Sprocket Attaching Hardware

Required when a fuel pump eccentric is used.

- P2120930

Bolt, Camshaft, Sprocket, For Three-Bolt Mounting, 383/440/426, Sold Individually
- P4529838

Hardware Package, Camshaft Sprocket

B. Offset Camshaft Keys

For centerlining your camshaft, these hardened keys are color coded in 1°, 2°, 3°, 4° and 5° increments. Production key is used for zero offset.

- P5249600

Camshaft Keys, Offset, 3.7L/ 3.9L/ 4.7L/ 5.2L/ 5.9L Truck Magnum/Jeep Engines

Note: Color code for cam keys: Natural-1°, Red-2°, Blue-3°, Yellow-4°, White-5°

C. Mechanical Tappet

Sold individually.

- <sup>1</sup> P2843177

Tappet, Mechanical, 0.0005" Undersize

D. Hydraulic Tappet

Sold individually.

- <sup>1</sup> P3614321

Tappet, Hydraulic, 340 Engine

E. Hydraulic Roller Tappets

- <sup>1</sup> P4876054

Tappets, Hydraulic, Roller, 5.2L/5.9L Truck Magnum/Jeep Engines, Sold Individually
- <sup>1</sup> P5249862

Tappets, Hydraulic, Roller, 5.2L/5.9L Truck Magnum/Jeep Engines, Magnum Crate, Set of 16
- <sup>1</sup> P4876055

Tappet Aligning Yoke, 5.2L/5.9L Dodge Truck Magnum/Jeep Engines, Sold Individually

F. Roller Tappet

Includes matched pair of Roller Tappets with guide bar.

- <sup>1</sup> P4452919

Tappet Set, Roller, Not Recommended with "R" Blocks and 340 Replacement Blocks

G. Pushrods

- <sup>1</sup> P5153848

Pushrod Set, Required for Use With Aluminum Magnum Cylinder Head P5153847
- <sup>1</sup> P5249662

Pushrods, Hydraulic, Roller, 6.92", 5.2L/5.9L Magnum/Jeep Engines/ Magnum Crate, Set of 16

H. Dog Bones

- <sup>1</sup> P5155275

Dog Bone Kit, For Hydraulic Roller Tappets on Magnum Race Blocks P5153452 AND P5153579, Includes 8 Dog Bones, Screws, Springs

SMALL BLOCK

CYLINDER HEADS, GASKETS, AND  
HARDWARE

A. Cylinder Heads, "LA"

Aluminum Assemblies, Requires Head Bolt Set P5153851.

- <sup>1</sup> P5153849
- Cylinder Head, Aluminum, 63 cc Combustion Chamber, 2.020"/1.600" Valves With HP Springs, 1967-1992 "LA" 318/360 Engines
- <sup>1</sup> P5155639
- Cylinder Head, Aluminum, Bare, Used in P5153849
- <sup>1</sup> P5153850
- Cylinder Head, Super Commando, Aluminum, Machined and Assembled with 2.080" / 1.600" Valves (5/16" Stem) with HP Springs, Use Rocker Arm Set P5153995, "LA" Engines
- <sup>1</sup> P5155128
- Cylinder Head, Aluminum, Super Commando, Bare, Used in P5153850

B. Cylinder Heads, Cast Iron, W2 Race

Features flat-machined rocker pads that require the use of T&D Race Rocker Arms and long valves. Heads must be oiled through the tappets and hollow pushrods. Older style rocker stands and rocker systems do not work with these heads.

- <sup>1</sup> P5007708AB
- Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust, 48° Tappet, 47cc Chamber, W2
- <sup>1</sup> P5007445AB
- Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust, 48° Tappet, 65 cc Chamber, W2
- <sup>1</sup> P5249769
- Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust, 59° Tappet, 65cc Chamber, W2

C. Cylinder Heads, Raised Port, W9

Partially machined W9 Cylinder Head with raised intake and exhaust ports. Recommended for use in Sprint cars and Midget cars.

Features:

- High-strength, lightweight A356 aluminum alloy casting
- Ports raised significantly higher than standard W9 Cylinder Heads
- Machined deck, intake surface, head bolts and valve cover rail
- Ports are cast small to allow for flexibility in porting (requires porting)
- Chamber is cast filled in to allow very small machined chamber (requires machining)
- Requires machining for valve guides, spark plugs, intake screws, porting, valve spring pockets, rocker stands and injectors
- Recommended valve length: 6.040" intake and 6.060" exhaust
- Six-bolt head attachment design
- Recommended for use with T&D rocker arms with 0.750" offset (custom order)
- <sup>1</sup> P5007904AB
- Cylinder Head, Aluminum, Raised Port, with Extra Stiffening Ribs, Small Block, A4 Midget Block, W9RP



A. P5153849



A. P5153850



B.



C.

SMALL BLOCK

CYLINDER HEADS, GASKETS, AND  
HARDWARE

A. Cylinder Heads, Aluminum, W9

Designed with the professional racer in mind, W9 Aluminum Cylinder Heads incorporate the latest in "paperless design technology" to give racers the leading edge. Features high-strength, lightweight A356 aluminum alloy casting with thick decks that permit small chambers for maximum compression ratios, six-bolt head attachment design for sealing integrity, and raised intake and exhaust ports for maximum performance. Heads have a 15° valve angle, with additional material to permit "rolling" the head (except head P5007861 which is 13°). They are the same length as the block to permit ease of installation with engine plates.

- <sup>1</sup> P5007861      Cylinder Head, Aluminum, 48°, Small Block, A4 Midget Block, W9 (13°)
- <sup>1</sup> P5007855      Cylinder Head, Aluminum, 48°, Small Block, A4 Midget Block, W9 (15°)
- <sup>1</sup> P5007065AB   Cylinder Head, Aluminum, 48°, Small Blocks, W9



A.

SMALL BLOCK

CYLINDER HEADS, GASKETS, AND  
HARDWARE

A. Cylinder Heads, Magnum

Features higher airflow and performance over cast iron (stock) Magnum cylinder heads. Uses Magnum vertical-style intake manifold attachment and production exhaust flange pattern. No heat crossover.

- <sup>1</sup> P5153847
- Cylinder Head, Aluminum, 5.2 / 5.9L Magnum, with valves and springs. 58 cc Combustion Chamber, 2.020"/1.600" Valves. Requires the use Of 1.6:1 Roller Rocker Arms (P5153852), Pushrods (P5153848), and Taller Than Stock Valve Covers (P5007617 or P5007618)
- <sup>1</sup> P5155469
- Cylinder Head, Cast Iron, Bare, 1.920" IN, 1.624" EX, 62CC Chamber, 172CC IN Runner, 1992-2003 Magnum 5.2L / 5.9L

See chart for additional information.

B. Magnum Cylinder Head Conversion  
Components

Designed to allow the use of production Magnum heads on pre-1992 Small Block engines. Requires the use of Magnum cylinder heads, hydraulic pushrods, Jeep® tappets (P4529220AB), and eight Magnum engine rocker arms (P4876050) to oil rocker arms through tappet and pushrod. Not for use with Magnum Cylinder Head P5153847.

- <sup>1</sup> P5007477
- Pushrod, Hydraulic, 7.625", Set of 16
- <sup>1</sup> P4876050
- Rocker Arm Set, Single Cylinder, 5.2L/5.9L Magnum Engines and Magnum Crate Engines
- <sup>1</sup> P4529220AB
- Tappet, Hydraulic, Small Block/ 2.5L/4.0L Jeep Engines, Sold Individually



A.



B.

SMALL BLOCK CYLINDER HEADS

Part Number	Description	Material	Chamber Size	Tappet Angle	Valve Angle	Valve Sizes	Valve Stem Size	Int. Port Volume	Int. Flow @.600"	Int. Port Shape	Exh. Port Shape	Valve Cover	Approx Weight
P5007445AB	W2	Cast iron	65 cc	48°	15°	2.02"/1.60"	3/8"	190 cc	265 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5007708AB	W2	Cast iron	47 cc	48°	15°	2.02"/1.60"	3/8"	190 cc	265 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5249769	W2	Cast iron	65 cc	59°	18°	2.02"/1.60"	3/8"	180 cc	260 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5153599	W2	Cast iron	70 cc	59°	18°	2.02"/1.60"	3/8"	189 cc	260 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5153600	W2	Cast iron	70 cc	59°	18°	2.02"/1.60"	3/8"	189 cc	260 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5007509AB	P5 Hemi	Aluminum	N/A	45°/59°	10°/2°	N/A	5/16"	N/A	N/A	Rect.	Oval P5	P5 Hemi	36
P5007065AB	W9	Aluminum	62 cc	48°	15°	N/A	11/32"	200 cc	290 cfm	Rect. W8/9	"D" W7/9	Std 5 bolt	22
P5007855	W9 Partially Machined	Aluminum	52 cc	48°	15°	N/A	N/A	N/A	N/A	Rect. W8/9	"D" W7/9	Std 5 bolt	22
P5007861	W9 Partially Machined	Aluminum	52 cc	48°	13°	N/A	N/A	N/A	N/A	Rect. W8/9	"D" W7/9	Std 5 bolt	22
P5007904	W9 Raised Port, Partially Machined	Aluminum	N/A	48°	13°	N/A	N/A	N/A	N/A	N/A	N/A	Std 5 bolt	24
P5153847	Magnum - Assy	Aluminum	58 cc	59°	18°	2.02"/1.60"	11/32"	175 cc	260 cfm	Rect.	std	10 bolt	30
P5153849	Commando - Assy	Aluminum	63 cc	59°	18°	2.02"/1.60"	11/32"	177 cc	222 cfm	Rect. 360	std	Std 5 bolt	30
P4876310AB	Commando - Lg Port	Aluminum	50 cc	59°	18°	2.02"/1.60"	3/8"	188 cc	265 cfm	Rect. 360	std	Std 5 bolt	25
P5153850	Super Commando	Aluminum	63 cc	59°	18°	2.065"/1.60"	11/32"	N/A	265 cfm	Wide	std	Std 5 bolt	30



## SMALL BLOCK

### CYLINDER HEADS, GASKETS, AND HARDWARE

#### A. Gaskets, Cylinder Head, Composite

Can be used for replacement or competition applications up to 12.5:1 compression ratio. Small Block four-bolt pattern. Sold as an engine set.

- <sup>1</sup> **P4876048** Gasket, Cylinder Head, Composite Material, 5.9L Truck Magnum/Jeep Engines, Set
- <sup>1</sup> **P4349557** Gasket, Cylinder Head, Composite Material, up to 4.06" Bore, 0.040" to 0.042" Compressed Thickness, Small Block
- <sup>1</sup> **P4120094** Gasket, Cylinder Head, Composite Material, Up to 4.125" Bore, Up to 12.5:1 CR, Small Block

#### B. Low Compression Ratio Composition Material Gasket

Not recommended for compression ratios over 10:5.1.

- P4120093** Gasket, Cylinder Head, Composition Material, Up to 4.060" Bore; 0.040" Thickness

#### C. Head Bolt Sets

Includes all required head bolts.

- P5153851** Bolt Set, Cylinder Head with Washers, Use With Cylinder Heads P5153849 and P5153850
- P4120471** Bolt Set, Cylinder Head, 318/340/360 "LA" Engines up to 1992
- P4876759** Bolt Set, Cylinder Head, Magnum, Small Block/ 5.2L/5.9L Truck Magnum/Jeep Engines

#### D. Head Stud Kits

Kits contain studs, nuts and washers for changeover of stock head bolts.

- P4876757** Stud Kit, Cylinder Head, Aluminum Block, W9 Heads
- P5007912** Stud Kit, Cylinder Head, Aluminum Block, W9 Raised Port Cylinder Head (A8 and A4 Engine Blocks with W9RP Cylinder Heads)

#### E. Hardened Washer Sets

For use with head bolts and main caps. Sold in sets of 20.

- P4120459** Washer, Hardened, 1/2"
- P4120456** Washer, Hardened, 3/8"

#### F. Exhaust Manifold Heat Shield - 340

- P2946105** Heat Shield, Exhaust Manifold, Driver's Side, 340



A.



B.



C.



C. P5153851



D.



E.



F.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

SMALL BLOCK

VALVE COVERS AND HARDWARE

A. Valve Covers, Aluminum, "As Cast"

Cast aluminum covers are more rigid than stamped steel, which helps prevent valve cover leaks. Sold "as cast" so you can set up the breathers required. There's no paint to remove if welding is done. Mopar Pentastar logo is cast into each cover. Set includes two valve covers and oil filler caps.

- P5007612AB Valve Cover, Aluminum, "As Cast," Set
- P5249581AB Gasket, Valve Cover, Five-Bolt Rubber with Steel Shim Reinforcement, 318/340/360/ "A" Engines up to 1992, Set
- P4452089 Gasket, Valve Cover, Race, Set

B. Valve Covers, Cast Aluminum, Polished

Polished to a chrome-like shine that's perfect for that show car engine look. Features Mopar Pentastar logo. Set includes two valve covers, two oil filler caps and baffle package.

- P5007613AB Valve Cover, Cast Aluminum, Polished, Set
- P4452089 Gasket, Valve Cover, Race, Set

C. Valve Covers, Cast Aluminum, "Mopar Magnum"

Polished Cast Aluminum Valve Cover Sets are more rigid than stamped steel for better anti-leak properties. Features Magnum logo. Each set includes all grommets and a quarter-turn oil filler cap. Gaskets must be ordered separately.

- P5007618 Valve Cover, Cast Aluminum, Polished, 5.2L/5.9L Truck Magnum Engines, Set
- P5249660 Gasket, Valve Cover, 10-Bolt Mold Rubber Steel Shim, 5.2L/5.9L Truck Magnum Engines, Set of 2

D. Valve Covers, Cast Aluminum, Black Wrinkle

High-strength Cast Aluminum Valve Covers are more rigid than stamped steel, offering better anti-leak properties. Mopar Pentastar logo is cast into each cover. Set includes two valve covers, two oil filler caps and baffle package.

- P5007611AB Valve Cover, Cast Aluminum, Black Wrinkle, Set
- P5007617 Valve Cover, Cast Aluminum, Black Wrinkle, 5.2L/5.9L Truck Magnum Engines, 1993 and Up, Set
- P5007619 Valve Cover, Cast Aluminum, Black Wrinkle, 1993-98 5.2L/5.9L Jeep Engines, Set
- P5249581AB Gasket, Valve Cover, Five-Bolt Rubber with Steel Shim Reinforcement, 318/340/360/ "A" Engines up to 1992, Set
- P4452089 Gasket, Valve Cover, Race, Set

E. Valve Covers, Fabricated Aluminum

- P5155525 Valve Cover, Aluminum, Black, Wedge, Small Block



A.



B.



C.



D.



E.

SMALL BLOCK

VALVE COVERS AND HARDWARE

A. Valve Covers, Chrome

Dress up your engine compartment with these high-quality, chrome-plated stamped steel valve covers. Set includes two valve covers and grommets. Does not include gaskets, screws or baffling.

- P5007446 Valve Cover, Chrome, Mopar Pentastar Logo, Set
- P4349632AB Valve Cover, Chrome, "Direct Connection" Logo, Small Block, Set
- P4452089 Gasket, Valve Cover, Race, Set

B. Valve Cover Hardware- Chrome

For stamped steel valve covers only. Accessory set includes 12 chrome-plated screws and washers, one chrome-plated oil filter cap and two rubber grommets.

- P4120272 Valve Cover Accessory Set, Big Block or Small Block
- P5007419 Grommet and Plug Set, Valve Cover, Big Block or Small Block
- P5007458 Bolt Set, Valve Cover, Chrome, Big Block/Small Block, 12 Pieces

C. Valve Covers, Wide

Five-bolt cover features reversed lip design that allows the cover to be wider on stock production gasket surface. Extra width allows for larger valve springs and longer rocker arms. Mopar Pentastar logo featured on each cover. Use with Stud Package P4876676.

- P4876124 Valve Cover, Wide, Stock Production Small Blocks and W2/W5/W7/W9 Flanges, Set

Valve Cover Gaskets and Hardware- Wide (Not Shown)

- P4876676 Stud Kit, Wide "LA" and W8 Valve Covers, 10 Studs with Lock Nuts
- P5249581AB Gasket, Valve Cover, Five-Bolt Rubber with Steel Shim Reinforcement, 318/340/360/ "A" Engines up to 1992, Set

D. Baffle and Screw Package

For cast aluminum valve covers only.

- P5007052 Baffle and Screw Package, Big Block/ Small Block/ Truck Magnum/Jeep Engines

E. Bolt Set- Valve Cover

Package includes 12 retaining bolts.

- P5007053 Retaining Screw, Valve Cover, Big Block/Small Block

F. Bolt Set- Chrome

Fit 5.2L/5.9L Magnum valve cover packages P5007617 and P5007618. Designed for cast aluminum valve covers only. Set includes 20 bolts (ten per cover).

- P5007620 Bolt Set, Cast Aluminum Valve Cover, Small Block/ 5.2L/5.9L Truck Magnum/Jeep Engines



A. P5007446



A. P4349632AB



B.



B.



C.



D.



E.



F.

SMALL BLOCK

VALVE COVERS AND HARDWARE

A. Breather Caps, Chrome

For use with Mopar cast aluminum valve covers to fill extra valve cover holes. Push-in-style Breather Cap requires the use of Grommet Set P4529882.

- P4529881 Breather Cap, Push-In Style, Chrome
- P4529880 Breather Cap, Twist-On, Bottom Vented, Chrome
- P4120446 Breather Cap, with Tube
- P4529882 Grommet, Rubber, Use with Breather Cap P4529881

B. Grommet- Knockout

For use on the knockout hole of die cast valve covers. It is recommended that the hole be cleaned up to 0.950" to 0.980" for best seal.

- P5007921 Grommet, Knockout, Die-Cast Valve Cover, Set

C. Grommet- PCV & Breather

Grommets to service black, polished, or "as-cast" Mopar Cast Aluminum Valve Covers (except Hemi). Set includes one grommet for PCV and one that can be used for plug or opened for breather.

- P5249642 Grommet, Cast Aluminum Valve Cover, 5.2L/5.9L Truck Magnum/Jeep Engines, Set



A. P4120446



A. P4529880



B.



C.



## SMALL BLOCK

### VALVES AND VALVE TRAIN HARDWARE

#### A. Valves

These stainless Valves have swirl-polished underheads with no flat or ski jump areas. Each features a 3/8" stem diameter and one square groove.

- <sup>1</sup> **P5249187** Valve, Exhaust, 1.60" Diameter, 4.97" Stem Length, 340/360 Small Block
- <sup>1</sup> **P5249197** Valve, Exhaust, 1.60" Diameter, 5.29" Stem Length, W2/W5 Heads
- <sup>1</sup> **P5249876** Valve, Exhaust, 1.625" Diameter, 4.93" Stem Length, 3.9L/ 5.2L/ 5.9L Magnum/Jeep Engines
- <sup>1</sup> **P5249188** Valve, Exhaust, 1.65" Diameter, 4.97" Stem Length, 340/360 Small Block
- <sup>1</sup> **P5249198** Valve, Exhaust, 1.65" Diameter, 5.29" Stem Length, W2/W5 Heads
- <sup>1</sup> **P5249878** Valve, Intake, 2.02" Diameter, 4.91" Stem Length, 3.9L, 5.2L, 5.9L Truck Magnum/Jeep Engines
- <sup>1</sup> **P4876397** Valve, Intake, 1.88" Diameter, 4.98" Stem Length, 340/360 Small Block
- <sup>1</sup> **P5249875** Valve, Intake, 1.92" Diameter., 4.91" Stem, 3.9L/5.2L/5.9L Magnum/Jeep Engines
- <sup>1</sup> **P5249877** Valve, Intake, 1.97" Diameter., 4.91" Stem, 3.9L/5.2L/5.9L Magnum/Jeep Engines
- <sup>1</sup> **P5249185** Valve, Intake, 2.02" Diameter, 4.98" Stem Length, 340/360 Small Block
- <sup>1</sup> **P5249195** Valve, Intake, 2.02" Diameter, 5.28" Stem Length, W2/W5 Heads
- <sup>1</sup> **P5249186** Valve, Intake, 2.08" Diameter, 4.98" Stem Length, 340/360 Small Block
- <sup>1</sup> **P5249196** Valve, Intake, 2.08" Diameter, 5.28" Stem Length, W2/W5 Heads
- <sup>1</sup> **P4876580** Valve, X-Long, Intake, Race, 2.15" Diameter, 5.4065" Overall Length

#### B. Valve Seals - Race

Sold in sets of 16.

- <sup>1</sup> **P3690963AB** Valve Seals, Race, 3/8" Stem, 0.530" Guide, Small Block

#### C. Valve Seals

Made of high-temp Viton material, these Valve Seals feature a full or semi-umbrella shape for best dual-purpose use. Helps prevent oil seepage down valve guides. Not recommended for use with dual valve springs. Sold in sets of 16. Does not apply to 0.530" guide.

- <sup>1</sup> **P4120492** Valve Seals, 3/8" Stem, Big Block/ Small Block
- <sup>1</sup> **P5249661** Valve Seals, 5/16" Stem, 0.530" Guide, 426 Hemi and 5.2L/5.9L Magnum/Jeep Engines



A.



B.



C.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.



SMALL BLOCK

VALVES AND VALVE TRAIN HARDWARE

A. Valve Keepers (Split Locks)

Made from hardened material. Single, double and triple groove styles available to meet your application requirements. Features a 3/8" stem diameter and is available in 7° and 10° angles. Can be used for restoration or performance applications. Set includes 16 pieces (two sets required for V8 engines).

- <sup>1</sup> P4120618 Valve Keepers, 7°, Single Groove
- <sup>1</sup> P4286612 Valve Keepers, 10°, Single Groove
- <sup>1</sup> P4120619 Valve Keepers, 7°, Double Groove

B. Valve Stem Lash Caps

These lash caps are 0.080" thick and fit between the end of the valve and the rocker arm tip. They are made of hardened steel for improved rocker tip durability. Larger area than stock valve tip to help spread the rocker loads. Sold in sets of 16.

- P4120626 Lash Caps, Valve Stem, 3/8" Stem, A/B/RB Engines
- P4120635 Lash Caps, Valve Stem, 5/16" Stem, 426 Hemi/ Big Block/ Small Block/ Truck Magnum/Jeep Engines

C. Valve Spring Retainers

Available in two levels of performance: Chrome Moly for heavy-duty applications and Titanium for top-level race performance. Sold individually.

- P4452032 Retainer, Valve Spring, Chrome Moly, 7 Degree, 8mm Stem Diameter, Single, 2.2L/2.5L SOHC and 5.2L/5.9L Magnum Engines
- P4452033 Retainer, Chrome Moly, 3/8", Single, Std Height, 7°
- P4007178 Retainer, Titanium, 3/8", Single, Std Height, 7°, 340/360 "LA"
- P4120785 Retainer, Titanium, 3/8", Dual, Std Height, 10°
- P4286775 Retainer, Titanium, 3/8", Triple, .060" Increase, 10°



A.

A.



B.

C.



C.

SMALL BLOCK

VALVES AND VALVE TRAIN HARDWARE

A. Valve Springs

High-pressure Valve Springs can be used on exhaust and intake valves for all high-performance applications. They feature a shorter, fully-compressed height and allow for increased valve lift. Springs maintain spring load at higher rpms. A must for high-performance cams. Sold individually. With a single spring, the damper is installed inside the main spring; with a dual spring, the damper is installed between the inner and outer springs. There are no dampers in the triple springs. The retainers listed are the basic recommendation. Check the actual retainer listing for other options: added installed height, materials and lock size.

- <sup>1</sup> P5249464 Valve Spring, 3.9L/ 5.2L/ 5.9L Magnum Jeep/Truck
- <sup>1</sup> P4876062 Valve Spring, 5.2L/5.9L Magnum Jeep/Truck
- <sup>1</sup> P4876063 Valve Spring, Single, HP Jeep V-8
- <sup>1</sup> P4286813 Valve Spring, Single, 0.380"/0.450" Lift
- <sup>1</sup> P4286812 Valve Spring, Single, 0.430"/0.460" Lift
- <sup>1</sup> P4120249 Valve Spring, Single, 0.430"/0.500" Lift
- <sup>1</sup> P3690933 Valve Spring, Single, 0.440"/0.500" Lift
- <sup>1</sup> P5249847 Valve Spring, Single, 0.480"/0.535" Lift
- <sup>1</sup> P5249848 Valve Spring, Single, 0.480"/0.540" Lift
- <sup>1</sup> P3614542 Valve Spring, Double, 0.500"/0.610" Lift
- <sup>1</sup> P3412068 Valve Spring, Double, 0.500"/0.620" Lift
- <sup>1</sup> P2806077 Valve Spring, Double, 0.500"/0.610" Lift
- <sup>1</sup> P2946353 Valve Spring, Double, 0.520"/0.700" Lift
- <sup>1</sup> P4876064 Valve Spring, Double, 0.590"/0.640" Lift

See chart for additional information.

ROCKER ARMS, SHAFTS, SUPPORTS, AND HARDWARE

B. Rocker Arms, Hydraulic

Features thicker cross-sectional material in pushrod socket area for added durability. Package set includes 16 heavy-duty hydraulic rocker arms (eight right, eight left), rocker shaft retainers and hold-down bolts. Rocker shafts not included.

- <sup>1</sup> P4529742 Rocker Arm, Hydraulic, Production, 1.5 Ratio, Package
- <sup>1</sup> P4529475 Rocker Arm, Hydraulic, Service, 1.5 Ratio, Left, Sold Individually
- <sup>1</sup> P4529474 Rocker Arm, Hydraulic, Service, 1.5 Ratio, Right, Sold Individually

C. Rocker Arm System, Pro Race

Complete rocker arm system made of high-strength aluminum, including shafts and bolts. Designed for high rpm, high load racing applications. Roller tip, needle bearing center pivot. Requires hollow pushrods and tappets for oiling. High-ratio rockers may require grinding on block and head for clearance. Not for street use.

- <sup>1</sup> P5007470 Rocker Arm Set, 0.550" Offset, 1.6 Ratio, One Head Only, W9

A.

A.

B.

C.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

## SMALL BLOCK

### VALVES AND VALVE TRAIN HARDWARE

#### SMALL BLOCK VALVE SPRINGS

Part Number	Installed Height	Description	O.D.	Wire Diameter	Lift Range	Material	Retainer
P4529214	1.64"	Magnum, Cylindrical	1.31"	0.177"	0.350"/0.430"	Production	P4529216
P4529215	1.64"	Magnum, Conical	Prod.	—	0.350"/0.430"	Production	P4529217
P4286813	1.65"/1.70"	Single/Damper	1.39"	0.185"	0.390"/0.450"	Chrome Vanadium	P4452033, P4286573
P5249464	1.64"	Magnum, Dual/Damper	1.42"	0.187"	0.400"/0.525"	Chrome Silicon	P4452032
P4286812	1.83"/1.86"	Single/Damper	1.49"	0.208"	0.430"/0.460"	Chrome Vanadium	P4452033
P4120249	1.67"/1.70"	Single/Damper	1.50"	0.206"	0.430"/0.500"	Chrome Vanadium	P4452033
P3690933	1.83"/1.86"	Single/Damper	1.53"	0.224"	0.440"/0.510"	Chrome Vanadium	P4452033
P5249847	1.68"/1.70"	Single/Damper	1.50"	0.207"	0.480"/0.535"	Chrome Silicon	P4452033
P5249848	1.83"/1.87"	Single/Damper	1.55"	0.216"	0.480"/0.540"	Chrome Silicon	P4452769, 4289288
P4876062	1.64"	Magnum, Dual/Damper	1.42"	0.187"	0.480"/0.600"	Chrome Silicon	P4452032
P3614542	1.67"/1.70"	Dual/Damper	1.45"	0.185"	0.500"/0.610"	Chrome Silicon	P4452033, P4286573
P2806077	1.83"/1.86"	Dual/Damper	1.52"	0.215"	0.500"/0.610"	Chrome Vanadium	P4529288, P4120785
P3412068	1.68"/1.70"	Dual/Damper	1.46"	0.191"	0.520"/0.620"	Special	P4452033
P2946353	1.99"/2.0"	Dual/Damper	1.59"	0.224"	0.520"/0.700"	Special	P4120785
P4876064	1.86"/1.88"	Dual/Damper	1.60"	0.216"	0.590"/0.640"	Chrome Vanadium	P4529288, P4120785
P4007536	2.0"/2.02"	Triple	1.62"	0.225"	0.640"/0.745"	Chrome Silicon	P4286775
P5249849	2.0"/2.02"	Dual/Damper	1.55"	0.216"	0.650"/0.750"	Chrome Silicon	P4120785

1. All valve springs are sold individually.

2. On W7 heads and others with x-long valves, like the 5.40" length, the typical installed spring height is 2.00" so only the springs listed above for the 1.99" thru 2.02" installed heights can be used.

3. With a single spring, the damper is installed inside the main spring; with a dual spring, the damper is installed between the inner and outer spring. There is no damper in the triple springs.

4. Retainers listed are the basic recommendation. Check the actual retainer listing for other options-added installed height, materials, lock size.

SMALL BLOCK

ROCKER ARMS, SHAFTS, SUPPORTS, AND HARDWARE

A. Rocker Arms, Mechanical

Includes 16 aluminum roller rocker arms and all necessary hardware, rockers are adjustable.

- <sup>1</sup> P5153995      Rocker Arms, Aluminum, For Large Port Super Commando Head P5153850 With +0.350" Offset on the Intake Rockers, Engine Set

B. Rocker Arm Spacer Set

- P3690896      Rocker Arm Spacer Set, 0.015" Thick, .878" I.D., 1.246" O.D., Set of 12
- P4529741      Rocker Arm Spacer Set, Hydraulic Production Style, A-Engine, Set of Eight

C. Rocker Shafts

- <sup>1</sup> P4510636      Rocker Shaft, Hydraulic Valve Gear, On-Center, Sold Individually
- <sup>1</sup> P4120589      Rocker Shaft, Mechanical Valve Gear, Offset, W2/W5 Heads, Sold Individually
- <sup>1</sup> P3577086      Rocker Shaft, Mechanical Valve Gear, On-Center, 340 T/A, Sold Individually
- <sup>1</sup> P5249091      Rocker Shaft, Roller Valve Gear, Aluminum, On-Center, Set of Two

D. Rocker Shaft Stands

Machined from T6061 billet aluminum, these high-strength Rocker Shaft Stands securely mount W2/W5 offset rocker shafts. Designed to upgrade cast aluminum rocker stands, these units will not flex, crack or crush. Each set contains ten stands (six narrow and four wide) and mounting bolts.

- <sup>1</sup> P5249049      Rocker Shaft Stand, Billet Aluminum, W2/W5 Heads

E. Rocker Shaft Hold-Down

Billet Aluminum Rocker Shaft Hold-Down provides greater rocker shaft stiffness which helps rocker shaft maintain roundness when torque is applied. Roundness is important with mechanical rockers and high spring loads. Anodized blue.

- <sup>1</sup> P5249712      Rocker Shaft Hold-Down, Standard Small Block Heads
- <sup>1</sup> P5249713      Rocker Shaft Hold-Down, W2 Heads

F. Rocker Shaft Retainers and Bolts

Package contains previously hard-to-find hold down retainers and bolts necessary to secure both rocker shafts. Manufactured to Mopar original equipment specifications to assure high quality. For use on all cylinder heads with cast-in rocker stands.

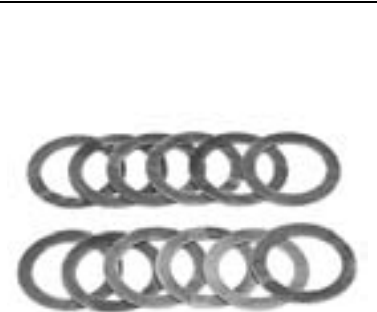
- <sup>1</sup> P4529740      Rocker Shaft Retainers and Bolts



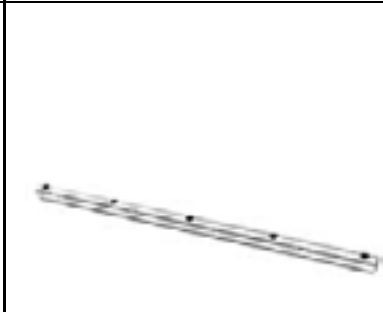
A.      P5153852



A.      P5153995



B.



C.



D.



E.



F.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

SMALL BLOCK

ROCKER ARMS, SHAFTS, SUPPORTS, AND HARDWARE

A. Rocker Arms, Roller

These complete Roller Rocker Arm Sets for Magnum engines include 16 roller tip rocker arms, pivots, guides, and pushrods. Rockers are die-cast aluminum and are individually adjustable. Can be used as heavy-duty replacement with standard or high-performance hydraulic camshafts. May interfere with production Magnum engine valve covers. High-ratio rockers will increase valve lift - use matching valve spring, and check piston-to-valve clearance. Not for use with Cylinder Head P5153847.

- <sup>1</sup> P5007404      Rocker Arm, Roller, 1.7:1 Ratio, 5.2L/5.9L Dodge Truck Magnum/Jeep Engines. Fits Production and R/T Heads.

B. Rocker Arm Stud Kit

Required with aluminum Magnum cylinder heads and aluminum roller rocker arms. Does not fit P5153847 head.

- <sup>1</sup> P5007645      Stud Kit, Rocker, Roller, 3/8" Coarse Thread, 5.2L/5.9L Truck Magnum/Jeep Engines



A.

INTAKE MANIFOLDS, HARDWARE, AND GASKETS

C. Single Plane Intake Manifolds

- <sup>1</sup> P5155314      Intake Manifold, Aluminum, Single Plane, Victor Style, Big Port and Standard Holley Four-barrel Carburetor, "LA" Engine with Super Commando Heads
- <sup>1</sup> P4876334      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, 1967-91, Standard Heads
- <sup>1</sup> P5007380AB      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, 5.2L/5.9L Truck Magnum/Jeep Engines, Magnum Crate Engines
- <sup>1</sup> P4876829AB      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, Large Oval Port, 9.200" Deck, W2 Cylinder Heads
- <sup>1</sup> P4529408      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, Oval Port, Water Heat 9.600" Deck, W2 Cylinder Heads
- <sup>1</sup> P4532598      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, Rectangle Port, 9.000" Deck, W7/W8/W9 Cylinder Heads
- <sup>1</sup> P4876162      Intake Manifold, Aluminum, Single Plane, Four-barrel Carburetor, Rectangle Port, 9.600" Deck, W7/W8/W9 Cylinder Heads



B.



C.



SMALL BLOCK

INTAKE MANIFOLDS, HARDWARE, AND GASKETS

A. Dual Plane Intake Manifolds

- <sup>1</sup> P4876335AB Intake Manifold, Aluminum, Dual Plane, Four-barrel Carburetor, 1967-91, Standard Heads
- <sup>1</sup> P5007381AB Intake Manifold, Aluminum, Dual Plane, Four-barrel Carburetor, 5.2L/5.9L Truck Magnum/Jeep Engines
- <sup>1</sup> P5249572AB Intake Manifold, Aluminum, Dual Plane, Four-barrel Carburetor, 9.200" Deck, W2 Cylinder Heads
- <sup>1</sup> P5249572 Intake Manifold, Aluminum, Dual Plane, Four-barrel Carburetor, 9.560" Deck, W2 Cylinder Heads
- <sup>1</sup> P5155426 Intake Manifold, Aluminum, Dual Plane, Four-barrel Carburetor, 9.600" Deck, W2 Cylinder Heads
- <sup>1</sup> P5249193 Intake Manifold, Cast Iron, "A" Engine W2, 2BBL

B. Dual Plane Intakes - Six Pack

- <sup>1</sup> P4529054 Intake Manifold, Aluminum, Dual Plane, Six Pack, Rectangle Port (1967-91 Small Block)

C. Intake Manifold Gasket Sets

Custom-fit for use with Small Block cylinder heads. Complete kit to service one engine including gaskets, end seals, O-rings, and distributor seal (where applicable).

- P4876049 Gasket, Intake Manifold, 5.9L Magnum Jeep/Truck
- P4452101 Gasket, Intake Manifold, Small Block, 0.060" Thick
- P4120210AB Gasket, Intake Manifold, W2 Heads, 0.030" Thick
- P4120211AB Gasket, Intake Manifold, W2 Heads, 0.045" Thick
- P4007571AB Gasket, Intake Manifold, W2 Heads, 0.060" Thick
- P4876446 Gasket, Intake Manifold, W2 Heads, 0.090" Thick
- P4876447 Gasket, Intake Manifold, W2 Heads, 0.115" Thick
- P5249466 Gasket, Intake Manifold, W5 Heads, 0.060" Thick
- P5249480 Gasket, Intake Manifold, W7 Heads, 0.030" Thick
- P5007153AB Gasket, Intake Manifold, W9 Heads, 0.030" Thick
- P5007154AB Gasket, Intake Manifold, W9 Heads, 0.045" Thick
- P5007155AB Gasket, Intake Manifold, W9 Heads, 0.060" Thick
- P4007570AB Gasket, Intake Manifold, Standard "LA", 0.055" Thick
- P4286569 Gasket, Intake Manifold, Standard "LA", 0.055" Thick, with Heat Block-off Plate

D. Intake Manifold Attaching Bolts

A complete package of bolts required to attach the intake manifold to the cylinder heads. Engine set.

- P4876771 Bolt Package, Intake Manifold, 3/8" x 1-5/8", 1967-91 Small Block
- P4876772 Bolt Package, Intake Manifold, 5/16" x 2-3/4", 1992-98 5.2L/5.9L Magnum Jeep/Truck



A.



B.



C. P4120210



C. P4876049



D.

Questions? Call the Mopar Direct Connection Techline at 1-888-528-HEMI (4364)

<sup>1</sup> Not legal on pollution-controlled vehicles or vehicles registered for highway use.

## SMALL BLOCK

### INTAKE MANIFOLDS, HARDWARE, AND GASKETS

#### A. Bypass Hose

Designed to go from the intake manifold to the water pump. Made of heavy-duty silicone rubber. Includes two clamps.

**P4876373** Bypass Hose, 1970-91 Small Block

**P4876374** Bypass Fitting, Intake Manifold, Adapts Bypass Hose to Manifold, 1970-91 Small Block

#### B. Choke Seal

For dual plane production and aluminum intake manifolds. Package includes choke cup, gasket and two screws. Does not include a choke.

**P5249639** Choke Seal, Big Block/ Small Block

#### C. 360 Magnum Crate Engine Fuel Injection Kit

Mopar now has fuel injection kits available for 380/390/395 horsepower-rated 360 cid Magnum crate engines with automatic or manual transmissions. Installing one of these kits on your powerplant will improve fuel distribution and cylinder filling, resulting in impressive mid-range torque response and horsepower gains over standard carburetion. Mopar 360 Magnum crate engine fuel injection kits come complete and provide excellent throttle response, driveability and improved fuel economy. Developed in collaboration with Mopar Action Magazine.

Features:

- Factory-engineered "Plug 'n Play" wiring harness for easy installation
- JTEC engine controller with unique calibration
- Intake manifold assembly with 1,000 cfm four-barrel throttle body, fuel rail and 33 lbs./hr. fuel injectors
- External electric fuel pump, filter and fuel regulator
- Distributor, ignition wires and coil
- Complete set of new OEM sensors
- Engineered for Mopar 360 Crate Engines: P5249499, P5155074, P4510851, P5153475, P5007646

<sup>1</sup> **P5153590** Fuel Injection Kit, Automatic Transmission, 380/390/395 hp 360 Magnum Crate Engine

Note: Requires use of P4876706 Flex Plate or Magnum Flywheel 53020585 or Dual Trigger Distributor.

**IMPORTANT NOTICE:** This device is not legal for use on pollution-controlled vehicles certified for use on streets or highways. Once this device is installed, use of the vehicle on a street or highway is a violation of the Clean Air Act, potentially subjecting the operator and the installer to civil penalties of up to \$32,500 per vehicle depending on the circumstances.



A.



B.



C.

SMALL BLOCK

INTAKE MANIFOLDS, HARDWARE, AND GASKETS

A. Aluminum Single Plane Intakes - MPI

Can be used as a direct replacement for production engines. Allows use of air conditioning and all factory accessories. Designed to use production throttle body, injectors, fuel rail and other hardware from your stock intake. Available in EGR and non-EGR. Replacement for stock.

- <sup>1</sup> P5007790 Intake Manifold, Aluminum, Single Plane, Two- or Four-barrel EFI, Right Linkage, 5.2L/5.9L Magnum Jeep/Truck, Requires Modifications
- <sup>1</sup> P5007398AB Intake Manifold, Aluminum, Single Plane, Two-barrel EFI with EGR, 1992-97 5.2L/5.9L Magnum Jeep/Truck, Requires Installation Kit P5007638
- <sup>1</sup> P5007852 Intake Manifold, Aluminum, Single Plane, Two-barrel EFI without EGR, 1998-2003 5.2L/5.9L Magnum Jeep/Truck, Requires Installation Kit P5007638
- <sup>1</sup> P5007638 Installation Kit, Intake Manifold, Two-barrel Intake Only, 5.2L/5.9L Truck Magnum/Jeep Engines

B. Throttle Body Adapter

You can save time and money by using this Mopar Throttle Body Adapter. Although it will require minor fabrication, this adapter will allow you to use a stock Magnum engine throttle body on a four-barrel carburetor intake.

- <sup>1</sup> P5007865 Throttle Body Adapter, 5.2L/5.9L Dodge Truck Magnum/Jeep Engines

C. Throttle Body- 360 Magnum

- <sup>1</sup> P5153702 Throttle Body, Service part for 360 Fuel Injection Kits

Note: Pinout is different from Delphi IAC and Mopar IAC

OILING COMPONENTS

D. Oil Pans

Includes a factory-engineered and approved Oil Pan and pickup, drain plug and washer. Center sump- style is used on passenger car applications, while the rear sump-style is used for pickups. Mopar Windage Trays may be used if desired.

- P5249062 Oil Pan, Five-quart, Rear Sump, 273/318/340 Small Block
- P5249060 Oil Pan, Five-quart, Rear Sump, 360 Small Block and 5.9L Magnum

E. Oil Pan Bolt Set

- P4120613 Bolt Set, Oil Pan, 426 Hemi, Big Block/ Small Block, Set of 20 Bolts



A. P5007790



A. P5007398AB



B.



C. P5153702



D.



E.

SMALL BLOCK

OILING COMPONENTS

A. Oil Pan Gaskets

- P4452097

Gasket, Oil Pan, 1970-90 318/340 Small Block
- P4007573

Gasket, Oil Pan, 360 Small Block
- P5249932

Gasket, Oil Pan, 5.9L Dodge Truck Magnum/Jeep Engines
- P4452093

Gasket, Oil Pan, Race, 360 Small Block
- P4007572

Gasket, Oil Pan, Reusable, 318/340 Small Block

B. Oil Pickup and Screen Assemblies

Factory original reissued Oil Pickup and Screen Assembly. Standard pickups are 3/8".

- <sup>1</sup> P4529563

Oil Pickup and Screen Assembly, Center Sump Pans P5249059 and P5249061 (Small Block)

C. Oil Pressure Relief Spring

Increases engine oil pressure over stock spring for high-performance applications. Delivers up to 70 lbs. of oil pressure. Includes a cap and instructions.

- <sup>1</sup> P3690944

Oil Pressure Relief Spring, Small Block/ 2.2L/2.5L/ 3.9L V6, Set

D. Windage Tray

Designed to provide improved engine lubrication by reducing the interior windage at higher engine speeds. Includes Windage Tray and mounting hardware (mounting hardware also available separately).

- <sup>1</sup> P4529790

Windage Tray Package, 318/340/360 Small Block
- <sup>1</sup> P3690939

Hardware Kit, Windage Tray, 318/340/360 Small Block

E. Oil Pump Assembly

This high-output oil pump assembly provides a 25% increase in oil volume. Ideal replacement for stock pump in high-performance applications.

- <sup>1</sup> P4286589

Oil Pump Assembly, Small Block, 3.9L V6

F. Distributor Drive Gear Assemblies

Features hardened tip shaft with full radius blend from hex to round and pinned gear.

- <sup>1</sup> P3690874

Distributor Drive Gear, Billet Roller Cam, Aluminum-Bronze Gear
- <sup>1</sup> P3690715

Distributor Drive Gear, HD

G. Tube and Peen Tool Package

Blocks off oil to right-side tappet bores. Required for race engines with high-lift roller cams.

- <sup>1</sup> P4120603

Tube and Peen Tool Package (Small Block)

	
A. P4007573	A.
	
B.	C.
	
D.	E.
	
F.	G. P4120603



SMALL BLOCK

OILING COMPONENTS

A. Right Angle Oil Filter Adapter Kit

Allows 90° rotation of the oil filter. Made of aluminum and provides necessary clearance for headers, engine swaps, etc. Filter not included.

- P5249624AB Oil Filter Adapter, Right Angle
- P5249320 Gasket, for Oil Filter Adapter P5249624AB
- P5007515 Mounting Screw, for Oil Filter Adapter, P5249624AB

B. Oil Pump Priming Shaft

Don't fire up that engine without pre-lubing (priming) it thoroughly with oil. Special hardened steel shaft fits on any 3/8" or larger drill. Insert shaft into hole where distributor fits. Pressurizes oil galleries to ensure against dry starts and subsequent engine damage. Fits all V8 engines.

- P4286800 Shaft, Oil Pump Priming

C. Dipstick and Tube, Chrome

- P4349628 Dipstick and Tube, Chrome, Center Sump Pan, Small Block Passenger Cars

D. Oil Filter- Performance

Engineered to meet the demands of heavy-duty and high-performance applications. Black with Mopar Pentastar logo.

- P4452890 Oil Filter, High-Performance, Black Finish, 6/8 Cylinder Engines

E. Oil Filter - Race

High-performance, heavy-duty Race Oil Filter has a thicker canister with high burst strength. Black with Mopar Pentastar logo.

- P4529190 Oil Filter, Race, Black Finish, 426 Hemi, Big Block, Small Block

F. Oil Filter- Restoration

Mopar has reissued these service replacement Restoration Oil Filters used in the 1960s and 1970s. The white filter was used from the 1960's throughout the 1970's. The high-performance white filter (P4529805) was recommended for use in competition from 1965-74. These filters may not fit some V8 applications (those after 1972 requiring short filters).

- P4529806 Oil Filter, Restoration, Black with Yellow Mopar logo, 1962-66 V8
- P4529805 Oil Filter, Restoration, High-Performance, White with Red Stripe

COOLING SYSTEMS

G. Water Pumps

Mopar Aluminum Water Pumps feature basic high flow designs. The six-blade pump is recommended for use with cast iron cylinder heads and for drag racing applications. The eight-blade pump is recommended for use with aluminum cylinder heads and for circle track applications. Passenger side lower hose inlet (1970 and up Small Block).

- <sup>1</sup> P5249558 Water Pump, Aluminum, 6-Blade
- <sup>1</sup> P5249559 Water Pump, Aluminum, 8-Blade

	
A.	B.
	
C.	D.
	
E.	F. P4529805
	
F.	G.



SMALL BLOCK

COOLING SYSTEMS

A. Water Pump, Race

Mopar Race Aluminum Water Pumps provide extra high flow. Must be used with Sand Cast Race Timing Cover P4876632 (NASCAR Only) and Motor Plate.

<sup>1</sup> P4876548 Water Pump, Aluminum, Race, use with Timing Chain Cover P4876632

B. Bolt Set, Water Pump, Chrome

Engine chrome dress-up projects just aren't complete without chrome bolts.

P4529256 Bolt Set, Chrome, Water Pump, 1969-92 "A" Engine

C. Thermostat Housing, Chrome

This high-quality housing is made of heavy-duty material. Includes gasket and two chrome bolts.

P4452025 Water Neck, Chrome, 1979-93, V8 and V6

P4286759 Water Neck, Chrome, Up To 1978, V8

D. 90 Degree Thermostat Housing

Cast aluminum housing provides greater flexibility in routing cooling system hoses and improves the appearance of the engine compartment. Features three-direction capability -- ideal for compact engine compartments.

P5249191 Thermostat Housing, 90 Degrees

E. Thermostat

Heavy-duty Mopar Thermostat can handle increased heat management duties in high-performance engines. Replacement gasket included.

P4876307 Thermostat, 180 Degree, 426 Hemi/Big Block/Small Block/Slant Six Engines, Up to 1978

P4876308 Thermostat, 195 Degree, 1979 and Up

F. Viscous Fan Package

Most late 1960s and early 1970s factory-built muscle cars were equipped with viscous fans for cooling purposes. This package provides thermostatically controlled cooling and includes a lightweight balanced fan. Offers up to 15 horsepower gain on typical high-performance V8s. 15" fan blade 3 1/4" deep.

P4120758 Viscous Fan Package, 18" fan. 3.25 Pitch



A. P4876548



B.



C.



D.



E.



F.





AUTHENTIC PERFORMANCE



PERFORMANCE



PERFORMANCE CATALOG