

# SPRINT CAR / MIDGET / DIRT LATE MODEL 16



# 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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SPRINT CAR / MIDGET / DIRT LATE MODEL

BLOCKS

A. Sprint Car Blocks, Aluminum, A8

Designed specifically for Sprint/Late Model race cars. They feature improved windage and a larger diameter camshaft. Steel main bearing caps, main bearing cap studs and fasteners are included.

- <sup>1</sup> P5153378 Block, Aluminum, A8 Sprint Car, 9.015" Deck Height
- <sup>1</sup> P5155076 Block, Aluminum, A8 Sprint Car, 9.015" Deck Height, 60 mm Cam
- <sup>1</sup> P5007905AB Block, Aluminum, A8 Sprint Car, 9.100" Deck Height
- <sup>1</sup> P5007909AB Block, Aluminum, A8 Sprint Car, 9.435" Deck Height

B. Drag/Midget Blocks, Aluminum, A4

Designed for USAC Midget and Drag Racing. These lightweight blocks come with steel billet caps, ductile iron sleeves and hardware kit.

- <sup>1</sup> P5007467 Block, Drag, P5 Head
- <sup>1</sup> P5153903 Block, Drag, P9 Head
- <sup>1</sup> P5007636AB Block, Drag, W9 and W9RP Head
- <sup>1</sup> P5153612 Block, Midget, P9 Head
- <sup>1</sup> P5007466 Block, Midget, W9 and W9RP Head

See chart for additional information.

ENGINE BLOCK HARDWARE

C. Ductile Iron Cylinder Replacement Sleeve

For Aluminum Race Blocks.

- <sup>1</sup> P5007788 Sleeve, Cylinder Replacement, 4.355-inch Outside Diameter, 4.120-inch Inside Diameter, 5.700-inch Length, A8/ A4
- <sup>1</sup> P4510317AB Sleeve, Cylinder Replacement, 4.355-inch Outside Diameter, 4.120-inch Inside Diameter, 6.000-inch Length, A8.
- <sup>1</sup> P4510316 Sleeve, Cylinder Replacement, 4.400-inch Outside Diameter, 4.120-inch Inside Diameter, 5.600-inch Length, A8



A.



B.



C.





A.



B.



C. P5153645

## SPRINT CAR / MIDGET / DIRT LATE MODEL

### CYLINDER HEADS, GASKETS, AND HARDWARE

#### A. Cylinder Heads, Raised Port, Aluminum, W9

This partially-machined Aluminum Cylinder Head with raised intake and exhaust ports is recommended for use in Sprint 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
- Small cast ports 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
- Designed for 13° valve angle
- For use on 48° V8 and four-cylinder blocks
- Recommended valve length: 6.040" intake and 6.060" exhaust
- Six-bolt head attachment design
- Accepts five-bolt Mopar valve cover and gasket
- Recommended for use with T&D rocker arms with 0.750" offset (custom order)

<sup>1</sup> P5007904 Cylinder Head, Aluminum, Raised Port, Semi Machined, Small Block, A4 Midget Block, W9RP

<sup>1</sup> P5007904AB Cylinder Head, Aluminum, Raised Port, with Extra Stiffening Ribs, Small Block, A4 Midget Block, W9RP

#### B. Cylinder Heads, Aluminum, W9

Designed with the professional racer in mind, Mopar W9 Aluminum Cylinder Heads incorporate the latest in "Paperless Design Technology" to give racers the leading edge. These heads feature high-strength, lightweight A356 aluminum alloy casting. Their thick decks permit small chambers for maximum compression ratios. Heads feature 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°). These heads are the same length as the block, to permit ease of installation with engine plates. Machined for 5.540" intake and 5.560" exhaust valves. Heads accept five-bolt Mopar valve cover and gasket.

<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°)

#### C. Cylinder Heads, Aluminum, P9

Semi-machined head (requires machining and porting) is designed for USAC Midget and Competition Eliminator Drag Racing. For use with A4 Blocks P5153612 or P5153903, or R4 Block P5007151AC.

<sup>1</sup> P5155090 Cylinder Head, P9, Semi-Finished, Cubed

<sup>1</sup> P5153645 Cylinder Head, P9, Semi-Machined

SPRINT CAR / MIDGET / DIRT LATE MODEL

CYLINDER HEADS, GASKETS, AND  
HARDWARE

A. Racing Gaskets

Gaskets feature the latest in four-armor design composite gasket technology. Designed to accommodate both four- and six-bolt head attachment systems. Sold as an engine set.

- P4876666** Gasket, Cylinder Head, Lock Wire, to 4.18" Bore; Head Needs Groove Machining (W7, W8, W9 Heads), Set

B. Cylinder Head Stud Kits

Contains studs, nuts and washers. Complete engine set.

- P5153699** Stud Kit, Cylinder Head, A4 Engine Block with P9 Cylinder Heads
- 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)

INTAKE MANIFOLDS, HARDWARE, AND  
GASKETS

Aluminum Single Plane Intakes - Four-Barrel -  
Race (Not Shown)

- <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

C. Intake Manifold Gasket Sets

Custom fit for use with Mopar Sprint Car/Dirt Late Model cylinder heads. Kits come complete to service one engine set. Includes gaskets and end seals (where applicable).

- 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

VALVE COVERS

Valve Covers, P9 (Not Shown)

Magnesium Valve Cover set for P9 Cylinder Heads

- P5153698** Valve Cover, Magnesium, P9 Head (Sold individually)

A.



B.



C. P5007154



A.



B.



C.



D.



E.

## SPRINT CAR / MIDGET / DIRT LATE MODEL

### CAMSHAFTS, LIFTERS, AND HARDWARE

#### A. Camshafts, UGL

Race engines often require special camshafts. These lightweight UGL (unground lobe) Camshafts enable cam grinders to grind specific cam profiles to create a finished camshaft. Cannot be used in engine as is (for use with roller tappets and roller cam bearings only).

- <sup>1</sup> P5007134 Camshaft, Aluminum, UGL, 50 mm, "R" Blocks, Aluminum "A" Engine (W9/W9 RP)
- <sup>1</sup> P5007468 Camshaft, Aluminum, UGL, A4 Race Blocks (W9/W9 RP)
- <sup>1</sup> P5007906 Camshaft, UGL, 2.125", A8 Block (W9/W9 RP)
- <sup>1</sup> P5153305 Camshaft, UGL, 60 mm, Race, A8 (W9/W9 RP)
- <sup>1</sup> P5153519 Camshaft, UGL, 60mm Roller Journals, A4 (P9)

#### B. Camshaft Bearings

Complete engine set of roller camshaft bearings.

- <sup>1</sup> P5007911 Bearings, Camshaft, 2.125", Roller Bearing Applications, A8 Block
- <sup>1</sup> P5153700 Bearings, Camshaft, 60 mm, Roller Bearing Application, A4 with P9 Cylinder Heads
- <sup>1</sup> P5153324 Bearings, Camshaft, 60 mm, Roller Bearing Application, Requires Block Machining, A8 Block
- <sup>1</sup> P5007361 Bearings, Camshaft, 60 mm, Roller Bearing Applications, R4 or A4 Blocks with W9, W9RP

#### C. Rear Cam Plates

Packages include rear seal plate only.

- <sup>1</sup> P4510810 Cam Plate, Rear, Dirt Late Model, A8 Block

### ROCKER ARMS, SHAFTS, SUPPORTS, AND HARDWARE

#### D. Rocker Arm System, Pro Race

Complete "Pro" Race 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 for oiling. May require grinding on block and head for clearance.

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

### CRANKSHAFTS AND HARDWARE

#### E. Crankshaft, Sprint Car, Billet

This lightweight 4330m Billet Steel Sprint Car Crank features 2.00-inch rod journals, 340 mains and a generic six-bolt rear flange.

- <sup>1</sup> P5007903 Crankshaft, Billet, Sprint Car, 3.80" Stroke

SPRINT CAR / MIDGET / DIRT LATE MODEL

CRANKSHAFTS AND HARDWARE

A. Crankshaft, Midget, Machined, A4

This fully-machined, 4340 steel Midget Crankshaft features a six-bolt generic bolt pattern on the crank flange.

- <sup>1</sup> P5153520
- Crankshaft, Billet, Midget, 3.075" Stroke with 1.888" Rod Journals, A4 Block

<sup>1</sup> P5007907

Crankshaft, Forged, Midget, 3.075" Stroke w/ 2.000" Rod Journals, A4 Block

B. Crankshaft, Midget, Unmachined, A4

This unmachined, 4340 forged steel Midget Crankshaft allows you to cut custom cranks. Requires complete machining.

- <sup>1</sup> P5007573
- Crankshaft, Forged, Unmachined, Midget, 3.00"-3.25" Approx. Stroke, A4 Block

GEAR DRIVES AND SERVICE PARTS

C. Front Cover Gear Drive Set

Designed for use with Mopar aluminum race blocks (A4).

- <sup>1</sup> P5249988
- Gear Drive Package, Aluminum "A"

<sup>1</sup> P5007469

Gear Drive Package, Aluminum, A4 Block

<sup>1</sup> P5007908

Gear Drive Package, Aluminum, A8 Block

D. Hardware Kit

This Hardware Kit includes dowels, plugs, rear camshaft plate, screws, oil feed and scavenge tubes, oil crossover line and fittings, and camshaft bearing retaining screw.

- <sup>1</sup> P5153379
- Hardware Kit - A8 Block

E. Replacement Timing Cover

Includes replacement timing cover without camshaft cover.

- <sup>1</sup> P5153460
- Cover, Timing, Replacement, A8

<sup>1</sup> P5153459

Cover, Timing, Replacement, A4

<sup>1</sup> P5153461

Cover, Timing, Replacement, Aluminum "A"

F. Replacement Water Pump Drive

Includes water pump crank drive hub.

- <sup>1</sup> P5153462
- Water Pump Drive, Aluminum, Replacement, A8/Aluminum "A"

G. Replacement Water Pump Mount

Includes Water Pump Mount for KSE crank-driven water pump.

- <sup>1</sup> P5153466
- Water Pump Mount, Replacement, A8/Aluminum "A"

H. Replacement Gear Set

Includes cam, crank, and idler gears.

- <sup>1</sup> P5153457
- Gear Set, Replacement, A4/ A8/ Aluminum "A"



A.



B.



C.



D.



E.



F.



G.



H.





A.



B.



C.



D.



E.



F.



G.

## SPRINT CAR / MIDGET / DIRT LATE MODEL

### GEAR DRIVES AND SERVICE PARTS

#### A. Replacement Idler Set

Includes idler shaft, roller bearing, spacer, two machined washers, three screws, and snap ring (gear not included).

<sup>1</sup> P5153458 Idler Set, Replacement, A4/ A8/ Aluminum "A"

#### B. Replacement Cam Drive

Includes cam drive adapter with hex drive.

<sup>1</sup> P5153463 Cam Drive, Aluminum, Replacement, A4/A8/Aluminum "A"

#### C. Replacement Cam Cover

Includes round billet Cam Cover.

<sup>1</sup> P5153465 Cam Cover, Aluminum, Replacement, A4/A8/Aluminum "A"

#### D. Replacement Camshaft Hub and Hardware Kit

Includes all the parts necessary to change camshafts (camshaft hub and all fasteners).

<sup>1</sup> P5007853 Hub and Hardware Kit, Camshaft, Replacement, A4/A8/Aluminum "A"

#### E. Replacement Damper Seal Mount

Includes aluminum billet Damper Seal Mount.

<sup>1</sup> P5153464 Damper Seal Mount, Replacement, A4/Aluminum "A"

### OILING COMPONENTS

#### F. Oil Pan Gaskets

Gasket designed specifically for Mopar aluminum engines.

<sup>1</sup> P5007910 Gasket, Oil Pan, Aluminum A8 Engines

### BOOKS

#### G. Mopar Sprint Car Engine Build-Up Manual

This engine build-up manual from Mopar presents package recommendations and guidelines for preparing 360 and 410 Sprint car and 358 Dirt Late Model racing engines. Detailed discussions on engine block, oiling system, cylinder heads, valve train, rotating assembly, and induction/fuel delivery are all included. In addition to engine package specifications and recommendations, this manual also includes a highly detailed 410 Sprint car engine build-up case study performed by one of today's top professional engine builders (64 pages).

P5007520AB Mopar Sprint Car Engine Build-Up Manual

AUTHENTIC PERFORMANCE



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