

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 DELIV-ERED 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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NASCAR® / LATE MODEL

BLOCKS

A. Race Blocks- Cast Iron, R3

Building on Mopar's heritage, the "R3" race block family offers the latest in design technology along with the options to meet your specific needs.

- Process-controlled castings utilizing high-strength cast iron and a computer-controlled stress-relieving process.
- 100% CNC machining with full statistical process control
- Thick deck surface and six-bolt cylinder head attachment
- (48° blocks) for improved sealing and reliability
- Rough bore at 3.900" with various options that provide over-bore capacities up to 4.220" (in Siamese-bore versions)
- Various options that provide deck height potentials of 8.900" to 9.560"
- Tappet angles in both 59° (stock) and 48° are available (improved valve train geometry)
- (59° blocks are not recommended for use with roller tappets)

 Thicker main webbing and pan rail for improved rigidity

 Four-bolt mains in ductile iron and billet

- 318/340 main journal size
 Machined for pre-Magnum head oiling, as well as engine mounts
- ¹P4876671AD Block, Cast Iron, Race, "R3", Siamese-bore, 3.998" Rough Bore, 9.000" Deck Height
- ¹ P4876381AB Block, Cast Iron, Race, "R3", Siamese-bore, 4.050" Rough
- Bore, 9.025" Deck Height
- ¹ P4876791AD Block, Cast Iron, Race, "R3", Siamese-bore, 3.998" Rough
 - Bore, 9.200" Deck Height
- ¹ P4876673AD Block, Cast Iron, Race, "R3", Siamese-bore, 3.998" Rough
 - Bore, 9.600" Deck Height

ENGINE BLOCK HARDWARE

B. Timing Chain Covers

Package includes Timing Chain Cover, seal, and gasket.

- ¹ P5249930AB Cover, Timing Chain, Production, Includes Seal and Gasket,
 - 9.600" Deck, Small Block and V6
- Cover, Timing Chain, Sand Cast, Race, 9.00"-9.20" Deck, ¹ P4876632
 - Race Water Pump/Front Motor Plate

C. Timing Chain Tensioner

Stabilizes camshaft timing by reducing timing chain slack. Use in place of Thrust Plate (P5249637).

Timing Chain Tensioner, Small Block/ 3.9L/ 5.2L/ 5.9L ¹ P5007709

Truck/Magnum/Jeep Engines



P4876381AB A.



B.



C.

¹ Not legal on pollution-controlled vehicles or vehicles registered for highway use.



A.

B.





C.

CRANKSHAFTS AND HARDWARE

A. Forged Crankshafts

Surface hardened, 4340 forged steel Small Block Crankshafts feature radiused fillets at main and rod journals and a six-bolt flange.

¹ P5007253 Crankshaft, Forged, 3.58" Stroke, 318/340 Main

Crankshaft, Forged, 3.58" Stroke, 360 Main ¹ P5007255

¹ **P5007253AB** Crankshaft, Forged, 3.58" Stroke, 50 lbs, 2.100" Rod

Journal, Generic Rear Flange, NASCAR/Late Model,

318/340 Main

Crankshaft, Forged, 3.58" Stroke, 50 lbs., 2.100" Rod ¹ P5007959

Journal, Generic Rear Flange, 360 Main

CAMSHAFTS, LIFTERS, AND HARDWARE

B. Camshafts, Roller, UGL, Race

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

¹ P5007932 Camshaft, Roller, UGL, Race, Roller Tappets, for 50 mm

Roller Bearings P4876707, "R" Blocks

Camshaft, Roller, UGL, Race, Roller Tappets, for 60 mm ¹ P5007437

Roller Bearings P5007361, "R" Blocks

Camshaft, Roller, UGL, Race, Roller Tappets, for Babbitt 1 P4876633

Bearings P4876372, "R" Blocks

Camshafts (Not Shown)

P4529958_Camshaft & Tappet.jpg

Camshaft, Hydraulic, 284 Duration, .484" Lift, 106 CL, for Oval Track "A" Engines ¹ P4529958

CYLINDER HEADS, GASKETS, AND **HARDWARE**

C. NASCAR Touring Series Cylinder Head

This partially-machined A356 aluminum alloy Cylinder Head is approved by NASCAR for its Touring Series. Designed and manufactured for Mopar by Brodix, this head features high-flow 239 cc intake, raised intake ports, phosphorous bronze valve guides and ductile iron valve seats. Use with intake manifold P4876829AB. (Port matching required with this intake manifold).

Cylinder Head, Aluminum, NASCAR Touring Series ¹ P5007928

NASCAR® / LATE MODEL

CYLINDER HEADS, GASKETS, AND **HARDWARE**

A. Cylinder Heads, W2 Cast Iron

These heads feature flat-machined rocker pads that require T&D Pro Race Rocker Arms and long valves. Heads oiled through tappets and hollow pushrods. Older style rocker stands and rocker systems do not work with these heads.

¹ **P5007708AB** Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust,

48° Tappet, 47cc Chamber, W2

¹ **P5007445AB** Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust, 48° Tappet, 65 cc Chamber, W2

¹ P5249769 Cylinder Head, Cast Iron, Race, 2.02" Intake, 1.60" Exhaust,

59° Tappet, 65cc Chamber, W2

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." These heads are the same length as the block to permit ease of installation with engine plates. Machined for 5.540-inch Intake and 5.560-inch Exhaust valves. Heads accept five-bolt Mopar valve cover and gasket.

¹ P5007065AB Cylinder Head, Aluminum, 48°, Small Blocks, W9

See chart for additional information.

C. Gaskets, Cylinder Head, Composite

Thick, 0.040" to 0.042" gaskets can be used for replacement or competition applications up to 12.5:1 compression ratio. Sold as an engine set. Small Block four-bolt pattern.

Gasket, Cylinder Head, Composite Material, up to 4.06" ¹ P4349557 Bore, 0.040" to 0.042" Compressed Thickness, Small Block

Gasket, Cylinder Head, Composite Material, Up to 4.125" ¹ P4120094

Bore, Up to 12.5:1 CR, Small Block



A.



B.



NASCAR CYLINDER HEADS

Part Number	Description	Material	Chamber Size	Tappet Angle	Valve Angle	Valve Size	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 ee	48°	15°	2.02"/1.60"	3/8"	190 ee	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 ee	260 cfm	Oval W2	"D" W2/5	Std 5 bolt	51
P5007065AB	W9	Aluminum	62 cc	48°	15°	N/A	11/32*	200 cc	290 cfm	Rect. W6/9	"D" W7/9	Std 5 bolt	22
P5007928	Brodix NTS	Aluminum	67 cc	59°	18°	2.15"/1.60"	11/32*	N/A	N/A	Rect. W5	"D"	5 bolt	N/A

B. A. C. D. P4876548 E. F.

NASCAR® / LATE MODEL

EXHAUST SYSTEMS

A. Exhaust Gasket Set

¹ P4876103AB Gasket, Exhaust Header, W-2 Dual Pattern Race, "A" Engine

Gasket, Exhaust Header, W-8/W-9, "A" Engine, Set ¹ P5007157

VALVE COVERS AND HARDWARE

B. Valve Covers, Wide

Uses stock production gaskets. Features Mopar Pentastar logo and reversed lip design that allows the cover to be wider on the same gasket surface. The extra width allows for larger valve springs and longer rocker arms. Five-bolt covers. Requires use of Mopar Valve Cover Stud Attaching Kit (P4876676).

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

Valve Cover Hardware, Wide (Not Shown)

Stud Kit, Wide "LA" and W8 Valve Covers, 10 Studs with P4876676

Lock Nuts

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

OIL, FUEL, AND WATER PUMPS

C. 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.

Oil Pump Assembly, Small Block, 3.9L V6

D. Fuel Pump Eccentric, Moly-Coated

The moly coating on this Fuel Pump Eccentric significantly reduces friction and

Fuel Pump Eccentric, Moly-Coated, Small Block ¹ P4120484

E. Water Pump - Race

High-performance water pump for racing applications.

Water Pump, Aluminum, Race, use with Timing Chain Cover ¹ P4876548

P4876632

NASCAR

F. NASCAR Sprint Cup Race Block

Block, NASCAR Sprint Cup, R5 ¹ P5007427 ¹ 05045291AB Block, NASCAR Sprint Cup, R6

Contact Dodge Motorsports South ((704) 786-1909) for R6/P8 racing parts.

NASCAR® / LATE MODEL

NASCAR

A. NASCAR Sprint Cup Cylinder Heads

Designed for the NASCAR Sprint Cup program. This partially machined head is made from high-strength aluminum alloy and features a unique six-bolt cylinder head bolt pattern.

¹ **P5007428** Cylinder Head, Aluminum, NASCAR Sprint Cup, P7

¹ **05045292AA** Cylinder Head, Aluminum, NASCAR Sprint Cup, P8

Contact Dodge Motorsports South ((704) 786-1909) for R6/P8 racing parts.

NASCAR Sprint Cup Intake Manifolds (Not Shown)

¹ 05045404AA Intake Manifold, Aluminum, NASCAR Sprint Cup, R6/P8

¹ **68101616AA** Intake Manifold, Aluminum, NASCAR Sprint Cup, R6/P8

Contact Dodge Motorsports South ((704) 786-1909) for R6/P8 racing parts.

NASCAR Nationwide Intake Manifolds (Not Shown)

¹ **05045406AA** Intake Manifold, Aluminum, NASCAR Nationwide, R6/P8

B. NASCAR Sprint Cup Fuel Components

¹ **P5007652** Fuel Pump, NASCAR Sprint Cup, R5 Block

¹ **P5007745** Pushrod, Fuel Pump, NASCAR Sprint Cup, R5 Block

NASCAR Sprint Cup Water Pump (Not Shown)

05045164AC Water Pump Housing, NASCAR Sprint Cup, R6/P8

BOOKS

C. Mopar 358 Oval Track Engine Build-Up Manual

This manual is recommended for anyone who wants to build a Mopar 358 cid oval track race engine. Written in conjunction with Dodge Motorsports race engineers, this step-by-step build-up manual contains information on cylinder block preparation, oiling system planning and modifications, cylinder head and valve train preparation, short block preparation and induction setup. Also included are complete parts and supplier listings. All the information you need to know, straight from the pros. (56 pages)

P5007373AB Mopar 358 Oval Track Engine Build-Up Manual

D. Mopar Late Model Oval Track Engine Build-Up Manual

This manual is recommended for anyone who wants to build a Mopar 340-410 cid Late Model oval track racing engine. It describes all of the parts and procedures necessary to build a Late Model oval track engine for competition. Written by Mopar race engineers, this step-by-step build-up manual contains information on cylinder block preparation, oiling system planning and modifications, cylinder head and valve train preparation, short block preparation, and induction and ignition setup. Also included are complete part and supplier listings. Whether you're racing in CASCAR, NASCAR, USAR Pro Cup, or any other Late Model sanctioning organization, this manual contains all of the information you need to know straight from the people who know best. (96 pages)

P5007450AB Mopar Late Model Oval Track Engine Build-Up Manual



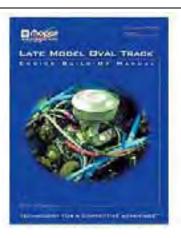
A.



B.



C.



D.

¹ Not legal on pollution-controlled vehicles or vehicles registered for highway use.



BOOKS

A. Mopar Oval Track Modifications - 3rd Edition

This is the book every Mopar oval track racer must have. It includes complete engine and chassis build-up information. Speed secrets and racing tips are directed primarily toward Chrysler-Plymouth-Dodge V8 engines (273-318, 340-360 "A" engines; 361-383-400 "B" engines; 413-426W-440 "RB" engines; 5.2L and 5.9L Magnum engines). Additional chapters include information on automatic and manual transmissions, driveshafts and rear axles, front and rear suspension, steering and handling, brakes, shocks, wheels and tires, body and chassis. Late Model, Sprint Car, and NASCAR Truck racing specifications and performance recommendations are also included. Summarizes more than four decades of Chrysler-Plymouth-Dodge involvement in oval track engineering and on-track testing. (500 pages)

P5249959AB Mopar Oval Track Modifications, 3rd Edition

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