

PERFORMER RPM ALUMINUM CYLINDER HEADS for B / RB Big Block Chrysler V8s **INSTALLATION INSTRUCTIONS**

60149 (88cc Bare) 60917 (NHRA Legal) 60929 (84cc Complete)

CATALOG NUMBERS: 60185 (88cc Complete) 60919 (84cc Bare)

60189 (88cc Complete) 60925 (84cc Complete)

Please study these instructions carefully before installing your new cylinder heads. If you have any guestions, do not hesitate to contact our **Technical Hotline at: 1-800-416-8628**, 7:00 am - 5:00 pm, Monday through Friday, Pacific Standard Time.

DESCRIPTION:

Designed for non-emissions 1961-1978 Chrysler B 361, 383 and 400 c.i.d. engines and RB 413, 426 wedge and 440 c.i.d. engines. 60919, 60925 and 60929 heads feature an 84cc combustion chamber. 60149, 60185 and 60189 feature an 88cc combustion chamber. 60917 is a NHRA Legal (Stock/Super Stock) version of 60919. All of these cylinder heads feature 210cc intake ports and 70cc exhaust ports. 60149 & 60189 cylinder heads are designed to be used in combination with pistons that protrude above the deck. 60185 & 60925 are installed with springs that are ideal for hydrualic roller cams. These heads feature a .100 deep relief around the combustion chamber to clear these pistons at TDC. Other outstanding features include phosphor-bronze valve guides, interlocking, ductile iron valve seats and premium one-piece, stainless steel, high-flow 2.140" and 1.810" intake and exhaust valves. Heat-treated, machined steel retainers and valve locks along with heavy duty valve springs work with cams having valve lifts up to .600". These powerful heads use the stock location for intake flange and bolt holes, rocker shafts, and valve cover rails, for compatibility with original equipment and aftermarket parts. Exhaust flange has been extended out .125" in order to provide dry exhaust bolt/stud holes. Exhaust bolt holes feature helicoil thread inserts for added strength and durability. Spark plugs have been re-oriented to a 15-degree angle to improve combustion efficiency.

☐ Edelbrock head bolt kit #8591; (see instructions below)

☐ Pushrods compatible with adjustable rocker arm assembly stock length 440 c.i.d.- 9.125" hydraulic flat tappet, 9.250" solid flat tappet 383 c.i.d.- 8.250" hydraulic flat tappet, 8.600" solid flat tappet ☐ 14mm x 3/4" reach gasketed spark plugs; Champion RC-12YC or equivalent

The con	nplete cylinder heads are assembled with the following components:
	Stainless steel, one-piece, swirl-polished intake and exhaust valves with under-cut stems for increased flow
	2-ring positive oil control seals
	Edelbrock Sure-Seat Valve Springs
	Flat Tappet - #5792 / Hydrualic Roller - #5821
	Retainers #9644
	Valve keepers #9616
	Valve spring seats #5771
•	te cylinder heads are assembled and prepared for installation right out of the box. Bare cylinder heads will have valve guides ats installed, but will require final sizing and a valve job to match the valves you will be using.
	<u>IMPORTANT NOTES:</u>
	READ BEFORE BEGINNING INSTALLATION!
For a su	ccessful installation, the Edelbrock Performer RPM Cylinder Heads require some components other than original equipment parts.
To comp	plete your installation, you will need the following items:
	Head gaskets; Edelbrock #7325, Fel-Pro #1009, or equivalent (see installation instructions).
	Intake manifold gaskets; Fel-Pro #1214 for B 361-400 c.i.d. and #1215 for RB 413-440 c.i.d. or equivalent. Edelbrock #7225
	may be used in either application, when a stock style valley pan is used.
	Exhaust gaskets; Fel-Pro #1414 or Edelbrock #7226
	NOTE: Edelbrock Cylinder Head Gasket Set #7366 may also be used in place of individual gaskets. This set contains all gaskets

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necessary for cylinder head installation, including cylinder head, intake (requires stock type valley pan), exhaust, and valve cover

gaskets.

Adjustable rocker arm assembly



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IMPORTANT NOTES CONTINUED:

CHECKING PISTON-TO-VALVE, PISTON-TO-BORE AND PISTON-TO-HEAD CLEARANCES: Prior to installation, it is highly recommended that valve-to-piston clearances are checked and corrected to minimum specs if necessary. These cylinder heads have larger-than-stock valve sizes and may not work with the valve pockets in stock pistons, especially if a high lift cam is used. The use of aftermarket pistons and/or custom machining to your pistons may be required. Actual valve-to-piston clearance should be specified by your camshaft manufacturer. Valve-to-bore clearance should also be checked, if necessary the top of the bore should be notched for clearance.

SPECIAL NOTE: Use P/N 60189/60149 for high compression 440 engines with above deck piston height. (Pistons protrude above the deck on the block). In all cases, you must make sure that there is at least .035" clearance between the piston and any part of the cylinder heads.

ACCESSORIES:

Although Edelbrock Cylinder Heads will accept 0EM components we recommend that premium quality hardware be used.

Head Bolts or Studs: High quality head studs or head bolts with hardened washers must be used to prevent galling of the aluminum bolt bosses. Edelbrock head bolt kit #8591 includes all bolts which must be used with these cylinder heads.

Rocker Arms and Valve Train: Adjustable rocker arms must be used with cams having greater than stock valve lift. We recommend original equipment or aftermarket adjustable rocker arm assemblies, along with matching pushrods. Use supplied spacer shims as needed to ensure adequate clearance between pushrods and intake port walls. **CAUTION:** Before installing rocker shafts, check for burrs or other obstructions on the machined saddles where the shaft sits. Remove any burrs and clean saddles thoroughly, if necessary.

Valve Covers: Edelbrock Performer RPM cylinder heads accept 1963 and later stock valve covers. They also will accept Edelbrock #4491 valve covers.

Intake Manifold: Although stock intake manifolds will fit, Edelbrock Performer RPM Chrysler Cylinder Heads are matched in size and operating range with Edelbrock Performer RPM Intake Manifolds #7186 for B engines and #7193 for RB engines. Edelbrock #7225 intake gaskets (if used with stock style valley pan - "B" or "RB" engines), Fel-Pro intake manifold gaskets #1214 for "B" and #1215 for "RB" engines, and Mopar performance #P4286825 for "B" and #P4286826 for "RB" engines are recommended. Follow the manifold or gasket manufacturer's recommendations for installation.

Exhaust Headers: Some headers or exhaust manifolds designed for original equipment heads will have reduced spark plug boot clearance. Check and make sure there is enough header/manifold-to-spark plug clearance BEFORE INSTALLING CYLINDER HEAD ON ENGINE. Exhaust ports are CNC-profiled to match Fel-Pro #1414 exhaust gaskets which are recommended for this application.

Spark Plugs: Use 14mm x 3/4" reach gasketed spark plugs. Heat range may vary by application, but we recommend Champion RC-12YC (or equivalent) for most applications. **Use anti-seize on the plug threads to prevent galling in the cylinder head, and torque to 10 ft./lbs. Do not overtighten sparkplugs! If short reach plug is used, poor performance and possible engine damage may occur.**

Lubricants: For added performance and protection, we recommend using Edelbrock performance lubricants.

Engine Oils					
High Performance Synthetic	10w40 w/Zinc	P/N 1072			
High Performance Synthetic	5w30 CAT Safe	P/N 1071			
High Performance Petroleum	10w40 w/Zinc	P/N 1073			
Or supplement your favorite brand of engine oil					
Zinc Additive	-	P/N 1074			
Protect your brand new engine					
High Dorformanaa Proak In Oil	CVE 3U	D/N 1070			

High Performance Break-In Oil	SAE 30	P/N 1070
Engine Assembly Lube	-	P/N 1075





INSTALLATION:

Installation is the same as for original equipment cylinder heads. Consult service manual for specific procedures, if necessary. Be sure that the surface of the block and the surface of the head are thoroughly cleaned to remove any oily film before installation. Use alcohol or lacquer thinner on a lint-free rag to clean. Apply oil or suitable thread lubricant to head bolt threads and the underside of bolt heads and washers. Torque to 70 ft./lbs. in three steps (40, 55, 70) following the factory tightening sequence (**see Figure 1**). Apply a continuous 1/8" bead of automotive RTV silicone sealer to end sealing surfaces on block and along bottom of intake ports on cylinder head. Also, apply a thin bead of sealer around intake ports on cylinder head and gasket. Position intake gasket thin valley cover in place and tighten bolts down. Then, place intake manifold in position and torque manifold bolts to 25 ft. lbs. **Notes:** (1.) Rocker shaft hold-down studs, nuts and washers, for 2 places marked (S) in each head, are supplied in this kit. (2.) Double nut both studs and screw them in until they reach the bottom. Install rocker shaft, factory concave washer and hard washer supplied with this kit. Apply 30W oil to fine threads and under nuts and washers and torque nuts to 25 ft./lbs. A head bolt re-torque is recommended after initial start-up and cool-down (allow 2-3 hours for adequate cooling).

SPECIFICATIONS:

Head Bolt Torque: 70 ft./lbs.

(in steps of 40, 55, 70)

Rocker Shaft Bolt Torque: 25 ft./lbs.

Combustion Chamber Volume: 84 cc 6092/6091; 88 cc

6018/6014

Deck Thickness: 5/8"

Valve Seats: Hardened ductile iron,

interlocking, compatible with

any fuel

Valve Size: Intake- 2.140",

Exhaust - 1.810"

Valve Spring Diameter: 1.55"

Valve Spring Installed Height: 1.880" - Flat Tappet

1.900" - Hydrualic Roller

Valve Spring Seat Pressure: 134 lbs. - Flat Tappet

150 lbs. - Hydrualic Roller

Max. Valve Lift: .600"

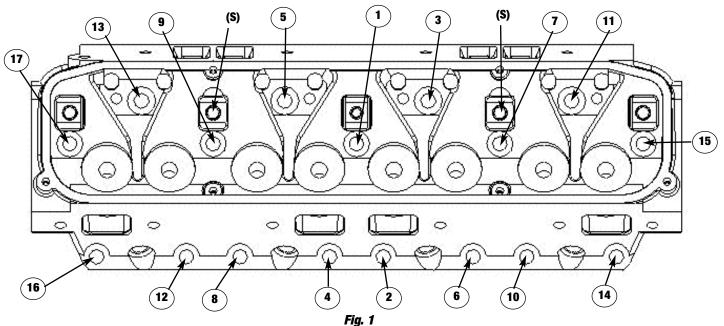


Diagram Showing Correct Cylinder Head Tightening Sequence





Edelbrock LLC • 2700 California St. • Torrance, CA 90503 Tech Line: (800) 416-8628