



PERFORMER RPM ALUMINUM CYLINDER HEADS
for Big-block Chevrolet V8s
CATALOG #Bare -60447 (NHRA Legal), 60449
Complete - #60455, 60459, 604515, 604519
INSTALLATION INSTRUCTIONS

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

DESCRIPTION

The Edelbrock Performer RPM Street Cylinder Head is designed for street high performance use, and is interchangeable with any early-style (1965-75) large oval port big-block Chevrolet cylinder head. This new cylinder head offers "out of the box" bolt-on performance with no additional porting required. The performance range is 1500-6500 rpm for great throttle response throughout the power band as well as top-end horsepower. The intake and exhaust ports are CNC machine "matched" and have been designed for maximum flow velocity when matched with our Performer RPM intake manifold #7161 (for square-bore carbs) or #7164 (for spread-bore carbs), Performer RPM cam kit #7162, and Performer Series square-bore carburetors or Performer RPM Q-Jet carburetors as seen in our catalog or website. This Performer RPM Power Package produced 540 horsepower in dyno tests on a 454 c.i.d. Chevy with 9.5:1 compression on pump gasoline. A totally unique intake port design yields flow numbers traditionally associated with high performance rectangular port heads, but with the smaller runner size and velocity of an oval port. The 110 cc combustion chamber is a semi-open chamber design to maximize combustion efficiency with streetable compression ratios. NOTE: This head has no exhaust crossover passage and will not work on any vehicle requiring EGR. This cylinder head is compatible with both early style Mark IV and late model Mark V blocks.

#60449 and 60447 are bare cylinder heads which have valve guides and seats installed. These will require final sizing and valve jobs to match the valves you will be using. #60447 is a NHRA Legal (Super Stock Only) version of the #60449 head.

#60459, 60479, 604515, 604519 are complete cylinder heads 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; 7/16" rocker studs and 3/8" guideplates; Edelbrock Sure-Seat Valve Springs #5745 (for hydraulic flat tappet cams), retainers #9715, valve keepers #9615 and valve spring seats #5770. Complete cylinder heads are assembled and prepared for installation right out of the box.

#60455 and 604515 are complete cylinder heads 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; 7/16" rocker studs and 3/8" guideplates; Edelbrock Sure-Seat Valve Springs #5823 (for hydraulic roller cams), retainers #9715, valve keepers #9615 and valve spring seats #5770. Complete cylinder heads are assembled and prepared for installation right out of the box

These Performer RPM Heads are Not legal for sale or use on pollution-controlled motor vehicles.

ACCESSORIES: Although Edelbrock Street Cylinder Heads will accept OEM components (rocker arms, valve covers, intake manifold, head bolts, etc.), we highly recommend that premium quality hardware be used with your new heads.

HEAD BOLTS or STUDS: Each head features four taller head bosses so we have supplied four lengthened head bolts and washers with each head. You may use OEM head bolts on all other positions as long as you utilize hardened washers to prevent galling of the aluminum bolt bosses. If you prefer to use new head bolts, we recommended Edelbrock's Head Bolt Kit #8551; it is a complete head bolt kit which also contains the lengthened head bolts needed to accommodate the taller head bosses that are unique to these cylinder heads. The lengthened head bolts must be utilized in locations: 15, 8, 2, and 7 of each head, which are represented in Figure 1.

NOTE: Head bolts may bottom out in blocks with blind bolt holes (Bowtie, 502 Mark V, etc.). Check for clearance, and if necessary shorten bolts or replace with a set specifically designed for use with blind holes.

ROCKER ARMS: The valve springs supplied will accommodate valve lifts up to .700". Check the spring pressures required by your cam manufacturer for your camshaft. This lift is much higher than stock

rocker arms will allow. Roller rocker arms will be required if your camshaft has more than .500" lift. Stock rockers may require longer-than-stock pushrods to clear the valve springs. **NOTE:** A visual inspection of rocker arm to valve alignment is recommended. In some cases, it may be necessary to loosen the guide plate and adjust the plate to get proper alignment. Make sure to re-torque the studs to recommended torque listed below.

VALVE COVERS: Because most roller rocker adjusters are physically larger than stock rockers, taller valve covers are usually required to clear them. Use Edelbrock Signature Series chrome valve covers #4680 or Elite Series polished aluminum valve covers #4280.

INTAKE MANIFOLD: Although stock intake manifolds will fit, the Edelbrock Street Cylinder Heads are matched in size and operating range with Edelbrock Performer RPM intake manifolds #7161 or #7164. If the Performer RPM is too tall to fit under your hood (Corvettes, etc.), you may use the Edelbrock Torker II 2-0 manifold #5061. Additionally, any manifold that matches Fel-Pro gasket #1212 may be used (Edelbrock Performer, Torker, Victor Jr., Victor Ram, etc.). Oval port intake manifolds may be used as-is, or port matched to the same configuration as the cylinder heads for optimum performance.

EXHAUST HEADERS: Any header or manifold designed for original

equipment heads will fit the Edelbrock Street Cylinder Heads. Exhaust ports are CNC profiled to match Fel-Pro #1411 exhaust gaskets which are recommended for this application.

SPARK PLUGS: Use 14mm x 3/4" reach gasketed spark plugs. Heat range will vary by application and may range from Champion N-9Y to N-14Y (or equivalent). If required for header clearance, use Champion RC-12YC or equivalent which are 1/4" shorter than "N" series plugs. **Use anti-seize on the plug threads to prevent galling in the cylinder head, and torque to 10 ft./lbs. Do not overtighten sparkplugs!**

INSTALLATION: Installation is the same as for original equipment cylinder heads. Consult service manual for specific procedures, if necessary. For 454 and smaller Mark IV engines, use Edelbrock head gasket #7302, Fel-Pro head gasket #1017-1, or equivalent. For 454 Mark V engines, use Fel-Pro head gasket #1037 or equivalent. For 502 c.i.d. Mark V engines, use Fel-Pro head gasket #1047 or equivalent.

NOTE: For 454 and smaller Mark IV engines, Edelbrock Cylinder Head Gasket Set #7363 may be used. The set contains all gaskets necessary to install these cylinder heads onto a Mark IV engine, including intake, exhaust, cylinder head, distributor, water neck, and valve cover gaskets.

Be sure that the surface of the block and the surface of the head is thoroughly cleaned to remove any oily film before installation. Use alcohol or lacquer thinner on a lint-free rag to clean. Apply liquid teflon or suitable thread sealer to head bolt threads. Torque short bolts to 65 ft./lbs. and long ones to 75 ft./lbs. in three steps following the factory tightening sequence (see Figure 1). A re-torque is recommended after initial start-up and cool-down (allow 2-3 hours for adequate cooling).

SPECIFICATIONS

Head bolt torque:65 ft./lbs. (short bolts; #11, #5, #4, and #10), .75 ft./lbs. long bolts; all others
Rocker stud torque:45 ft./lbs.
Combustion chamber volume:110 cc
Deck thickness:9/16"
Valve Seats:	Hardened, interlocking, compatible with unleaded fuels
Valve Size:	Intake- 2.19", Exhaust- 1.88"
Valve Stem Diameter:11/32"
Valve Spring Diameter:	1.54"
Valve Spring Installed Height:	1.975"
Valve Spring Seat Pressure:135 lbs.(Flat Tappet) / 175lbs (Hydraulic Roller Cam)
Max. Valve Lift:0.700" - Check spring pressures per cam manufacturer.

Bolt Boss Height

- A = 3.38"**
- B = 2.88"**
- C = 4.44"**
- D = 1.38"**

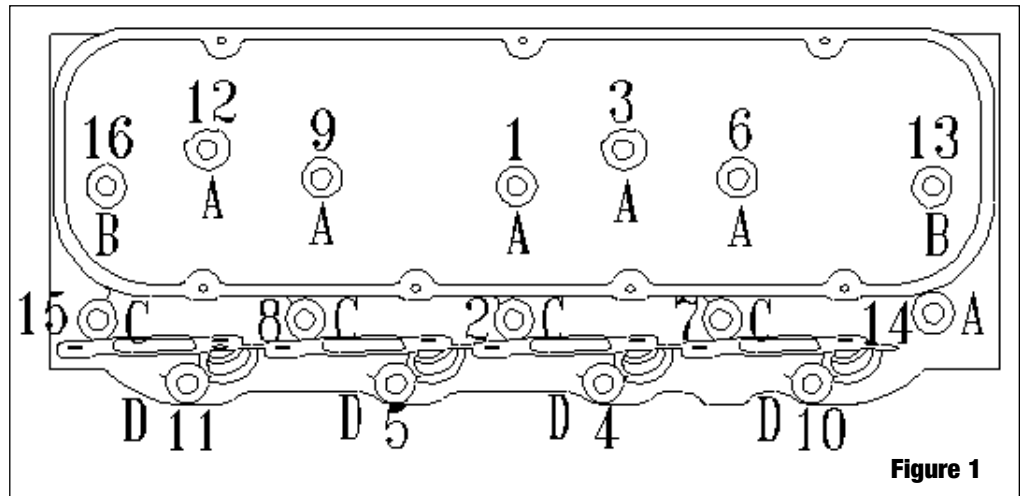


Figure 1

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