



PERFORMER RPM 454-R ALUMINUM CYLINDER HEADS

for Big-block Chevrolet V8s

CATALOG #6054* (bare) and #6055* (complete)

GENERAL INSTRUCTIONS

- **PLEASE** study these instructions carefully before installing your new cylinder heads. If you have any questions or problems, do not hesitate to contact our **Technical Hotline at: 1-800-416-8628**.

- **DESCRIPTION**

The Edelbrock Performer RPM Street Cylinder Head is designed for street high performance use, and is interchangeable with any high performance rectangular 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 1500-7000 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 #7163 (for square-bore carbs) or #7165 (for spread-bore carbs), Performer RPM cam kit #7162, and Performer Series square-bore carburetor #1407 (750 cfm) or Performer RPM Q-Jet carburetor #1910 (850 cfm). The 118 cc combustion chamber is an 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 all 1965-96 big-block Chevy blocks.

Complete 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; 7/16" rocker studs and 3/8" guideplates; Edelbrock Sure-Seat Valve Springs #5745, retainers #9715, and valve keepers #9615. Complete cylinder heads are assembled and prepared for installation right out of the box. **Bare cylinder heads will have valve guides and seats installed, but will require final sizing and a valve job to match the valves you will be using.**

- **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: 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 #8551 includes eight longer-than-stock bolts which must be used with these cylinder heads. If you use any other head bolts, you must use the eight head bolts and washers supplied with these heads in positions #15, #8, #2, and #7 in Figure 1.**

These positions will not accept stock length head bolts.

ROCKER ARMS: The valve springs supplied will accommodate valve lifts up to .750", which 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.

VALVECOVERS: Because most roller rockers 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 rectangular port intake manifolds will fit, the Edelbrock Street Cylinder Heads are matched in size and operating range with Edelbrock Performer RPM intake manifolds #7163 or #7165. Additionally, any manifold that matches Fel-Pro gasket #1211 may be used (Edelbrock Torker, Victor Jr., Victor Ram, etc.). Rectangular 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 Premium Gold #2071, 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 spark-plugs!**

- **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 Fel-Pro head gasket #1017-1 or equivalent. For 454 Gen V engines use Fel-Pro head gasket #1037 or equivalent. For 502 c.i.d. Gen V engines use Fel-Pro head gasket #1047 or equivalent. Be sure that the surface of the block and the surface of the head is thor-

oughly 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:	118 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:	120 lbs.
Max. Valve Lift:	.750"

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- **PLEASE** complete and mail your warranty card. Be sure to write the model number of this product in the "Part #____" space.

THANK YOU.

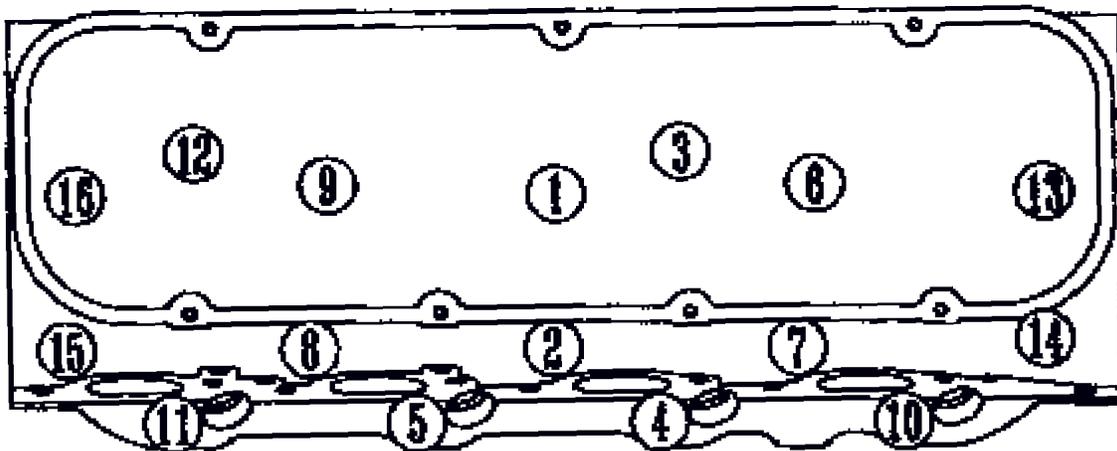


Figure 1— Tightening Sequence