



PERFORMER RPM OLDS ALUMINUM CYLINDER HEADS

for 1965-79 Oldsmobile V8s

CATALOG #6051*/#6052*

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: (800) 416-8628**.
- **DESCRIPTION**
Designed for high-performance non-emission 1965-79 Oldsmobile 400, 425 and 455 cubic-inch engines, this head features an improved 77cc combustion chamber design that increases the quench area for a more efficient burn. This results in outstanding horsepower and torque. The complete heads (6051) are assembled and ready-to-run with stainless steel 2.072" intake valves and 1.680" exhaust valves, hardened ductile iron valve seats for compatibility with unleaded fuels, and phosphor bronze valve guides. Bare heads (6052) come with seats and guides only. The valvetrain has been upgraded from the factory pedestal-mount system to a 7/16" screw-in stud and 3/8" pushrod-slot guideplate for increased valvetrain stability. The high-velocity, factory location ports feature 188cc intake runners and 106cc raised-floor exhaust runners for substantially improved flow and increased power. Head bolt holes are drilled for the stock 7/16" bolts, but can be easily modified for 1/2" bolts or studs by drilling the 1/2" counterbore from the deck side through the top. Aftermarket rocker arms and 9.800" long hardened pushrods are required for installation. Some engines may require longer or shorter pushrods to achieve proper valve train geometry. These heads will fit 350-403 Oldsmobiles with Edelbrock manifold #7111 only (port matching required).
- **ACCESSORIES**
Although Edelbrock Aluminum Cylinder Heads will accept some OEM valve covers and intake manifolds, we highly recommend that premium quality components be used with your new heads.
NOTE: Many additional parts (gaskets, etc.) are available from Mondello Performance, phone (805) 237-8808.

HEAD BOLTS or STUDS: Edelbrock Head Bolt Kit #8558 **must be used with these cylinder heads. These cylinder heads will not accept stock length head bolts. To prevent stripping of head bolts or improper torque, you must use the correct length bolt in each location. See Figure 1 for head bolt location.**

ROCKER ARMS: Roller rocker arms are required- **stock rocker arms will not fit!**

PUSHRODS: Hardened pushrods are required for installation. Use 9.800" long pushrods for 400-425-455 engines.

WARNING: We recommend use of Crane roller rockers or equivalent. Carefully check for pushrod interference with the pushrod clearance holes in the cylinder heads. Please check this area carefully before starting engine!

VALVECOVERS: Use Edelbrock Signature Series chrome valve covers #4485.

INTAKE MANIFOLD: Although stock intake manifolds will fit, the Edelbrock Oldsmobile Cylinder Heads are matched in size and operating range with Edelbrock Performer Olds 455 intake manifold #2151 on 400-425-455 c.i.d. engines. These heads **must** be used with Performer RPM Olds manifold #7111 only on 350-403 c.i.d. engines. Manifolds may be used as-is, or port matched to the same size as the cylinder heads for optimum performance.

EXHAUST HEADERS: Any header or manifold designed for original equipment heads will fit the Edelbrock Oldsmobile Cylinder Heads. Exhaust ports are CNC profiled for optimum performance, and **should not be enlarged** to fit the header gaskets. Fel-Pro header gaskets #1439 are recommended.

SPARK PLUGS: Use 14mm x 3/4" reach gasketed spark plugs. Heat range will vary by application and may range from Champion RC-9YC to RC-14YC (or equivalent). For typical street use, Champion RC-12YC or equivalent should work well. **Use anti-seize on the plug threads to prevent galling in the cylinder head, and torque to 10 ft./lbs. Do not overtighten sparkplugs!**

*Not legal for sale or use on pollution-controlled motor vehicles.

• **INSTALLATION**

Installation is the same as for original equipment cylinder heads. Consult service manual for specific procedures, if necessary. Use Fel-Pro head gasket #1155 or equivalent. 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. Coat threads, washers, and underside of bolt heads with motor oil or special lube supplied with head bolt kit for accurate torque readings. Torque 7/16" head bolts to 85 ft./lbs. If using 1/2" head bolts (which require drilling out the bolt bosses in the heads), torque bolts to 90 ft./lbs. Torque head bolts in three even increments (see Figure 1). Start in center and work out towards ends. A re-torque is recommended after initial start-up and cool-down (allow 2-3 hours for adequate cooling).

• **SPECIFICATIONS**

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|------------------------------------|---|
| Head bolt torque: | 85 ft./lbs. (7/16") 90 ft./lbs. (1/2") |
| Rocker stud torque: | 45 ft./lbs. |
| Combustion chamber volume: | 77 cc |
| Deck thickness: | 5/8" |
| Valve Seats: | Hardened, interlocking, compatible with any fuel |
| Valve Size: | Intake- 2.072", Exhaust- 1.68" |
| Valve Stem Diameter: | 11/32" |
| Valve Spring Diameter: | 1.45" |
| Valve Spring Installed Height: | 1.800" |
| Valve Spring Seat Pressure: | 120 lbs. |
| Max. Valve Lift | .575" |
| Push rod dia. (guide plate slot) : | 3/8" |
| Push rod length (400-425-455): | 9.800" |

Replacement valves are available separately as follows:

| | | |
|------------------------------|----------------------|------------------------|
| <u>INTAKE VALVES</u> | <u>1 ONLY</u> | <u>SET OF 8</u> |
| 2.072" | #9375 | #9376 |
| <u>EXHAUST VALVES</u> | <u>1 ONLY</u> | <u>SET OF 8</u> |
| 1.68" | #9317 | #9318 |

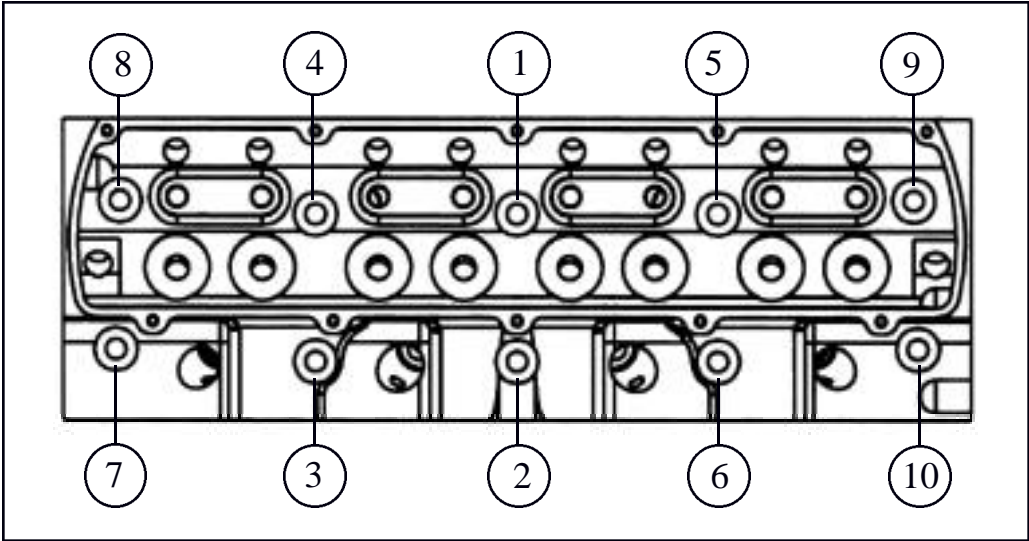


Figure 1- Head Bolt Tightening Sequence

Note: Torque bolts to 85 ft./lbs. (7/16") or 90 ft./lbs. (1/2") in three even increments. Coat threads, washers, and underside of bolt heads with motor oil for accurate torque readings. Start in center and work out towards ends following numbered sequence. Re-torque all head bolts after initial warm-up and cool-down.

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

THANK YOU.