



**EDELBROCK CYLINDER HEADS**  
**Duramax Diesel 6.6L V8 (01'-16')**  
**Part #79029, 79059, 79089, 79119**  
**INSTALLATION INSTRUCTIONS**

Please study these instructions carefully before installing your new cylinder heads. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, 7:00 am - 5:00 pm, Monday through Friday, Pacific Standard Time.

**IMPORTANT NOTE: Proper installation is the responsibility of the installer. Improper installation will void warranty and may result in poor performance and engine or vehicle damage.**

**DESCRIPTION:** The Edelbrock Duramax Diesel Cylinder Heads are designed for use on moderate to high performance 6.6L Engine applications. Edelbrock cylinder heads offer “out-of-the-box” bolt-on performance with no additional machine work required.

**Complete** cylinder heads and are finish assembled with Fully Nitrided, Stellite faced intake and Inconel exhaust valves, high performance valve springs and are ready for installation right out of the box.

The intake and exhaust ports on these heads are designed for increased flow over stock and promote lower EGTs. Intake and exhaust valve locations are moved inward toward the bore center for improved swirl during the intake phase. Deck thickness is also increased to 16mm for superior durability.

**ACCESSORIES:** Although Edelbrock Duramax Cylinder Heads will accept OEM components (rocker arms, valve covers, intake/exhaust manifold, head bolts, etc.), We highly recommend that premium quality hardware be used with these heads. See our catalog for details.

**To order a catalog, call (800) FUN-TEAM.**

- **Head Studs:** High quality head studs with hardened washers must be used to prevent galling of the aluminum bolt bosses. **Edelbrock recommended head stud kit: ARP #230-4201.**

**NOTE:** The factory head bolts are torque to yield and **CAN NOT** be reused. If not using ARP head stud kit, new OEM head bolts can be used following the factory torquing sequence described below.

- **Rocker Arm/Shaft/Pushrod Assembly:** OEM or equivalent.
- **Valve Covers:** OEM or equivalent.
- **Intake Manifold:** OEM or equivalent.
- **Exhaust:** OEM or equivalent.
- **Glow Plugs:** OEM or equivalent. (AC Delco Recommended)
- **Fuel Injectors:** OEM dimensions or equivalent.
- **Gaskets:** OEM “C-Grade” head gaskets. OEM or equivalent valve cover, intake and exhaust gaskets.

**IMPORTANT NOTE: Torque Specs and procedures described below are ONLY applicable when using NEW OEM head bolts. If ARP head stud kit #230-4201 is used, follow ARP installation procedure.**

#### **INSTALLATION:**

**NOTE:** These cylinder heads are symmetrical and interchangeable from the right side of the engine to the left. Each head requires installation of the included freeze plugs (two per head) **BEFORE** assembling the heads onto the engine. Freeze plugs should be installed in the back of the head facing the firewall.

1. Clean and inspect all hardware and parts prior to installation. Look for obvious defects or shipping damages. Be sure that the surface of the block is properly prepared and clean the surface of the head to remove any oily film before installation. Use alcohol or lacquer thinner on a lint-free rag to clean.
2. To ensure proper thread engagement and accurate torque readings, clean ALL threads in the block. Chase if necessary with M12 x 1.5 and M8 x 1.25 thread chasers.
3. Install the cylinder head(s) with gasket(s) and check for binding or misalignment. Screw bolts into the block “HAND TIGHT ONLY”.

4. Follow the manufacturer's recommended torque sequence (shown below) and **tighten the bolts in FOUR equal steps** to the following specifications.

**NEW Cylinder Head M12 Bolt (#1-18):**

1st Step 50 Nm (37 lb ft.)

2nd Step 80 Nm (59 lb ft.)

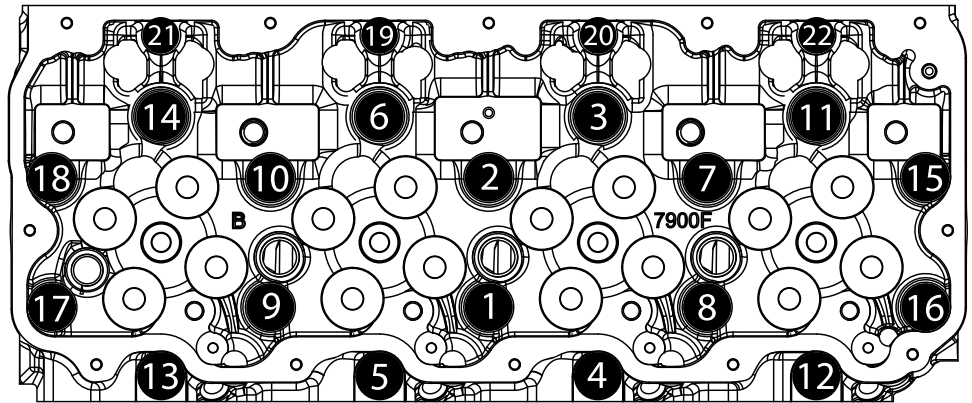
3rd Step 60 degrees

4th Step 60 degrees

**Cylinder Head M8 Bolt (#19-22):**

25 Nm (18 lb ft.)

**NOTE: These are factory specs for new OEM torque to yield bolts.**



**OTHER ASSEMBLY TIPS:**

- It is recommended to shim the rocker arms so that the contact pad is centered with the contact area on the spring bridge.
- Installation is the same as for original equipment cylinder heads. Consult service manual for specific procedures and torque specs, if necessary.
- Complete Edelbrock Duramax cylinder heads are assembled with valve springs that are compatible with stock and some popular aftermarket camshafts. However, if any aftermarket camshaft is used, check with the camshaft manufacturer for recommended spring pressures and maximum valve lift. Use the given spring specs below as a guide for compatibility.

**SPECIFICATIONS**

Intake Port Volume Combined:	230cc
Exhaust Port Volume Combined:	117cc
Deck Thickness:	16mm
Valve Size:	Intake - 33mm, Exhaust - 31mm
Spring Specs:	1st Load: 105 lbs @ 1.650" Installed Height 2nd Load: 210 lbs @ 1.250" Spring Solid Height (Coil Bind): 1.000" Max Lift Recommended: .600" (.050" Clearance)



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