



SBC VORTEC THREE-DEUCE INTAKE MANIFOLD
For 283-400 c.i.d. Chevy V8 With
Vortec-Style Cylinder Heads
Catalog #5417

INSTALLATION INSTRUCTIONS

PLEASE study these instructions carefully before beginning this installation. Most installations can be accomplished with common tools and procedures. However, you should be familiar with and comfortable working on your vehicle. If you do not feel comfortable performing this installation, it is recommended to have the installation completed by a qualified mechanic. If you have any questions, please call our Technical Hotline at: 1-800-416-8628, 7:00 am - 5:00 pm, Pacific Standard Time, Monday through Friday or e-mail us at Edelbrock@Edelbrock.com.

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

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

DESCRIPTION: Because of the current high demand for multiple carburetion, Edelbrock has introduced the three two-barrel manifold #5417 for small-block Chevrolets equipped with Vortec style cylinder heads. This manifold is primarily designed for street rod applications. Please note "Brackets" section below for your particular installation. (*NOTE: HEI distributors will not fit. Stock point-type distributors may require re-phasing to provide adequate clearance for ignition timing adjustment.*)

- **EGR SYSTEMS:** Intake manifold will not accept stock EGR (Exhaust Gas Recirculation) equipment. EGR systems are used on most 1972 and later model vehicles. Check local laws for requirements.
- **ACCESSORIES & INSTALLATION ITEMS:** Major recommendations are listed below. See our catalog for details. To order a catalog, call (800) FUN-TEAM, or visit www.edelbrock.com.
- **CARBURETOR RECOMMENDATIONS:**
CAUTION: Use only small 2 GC Rochester carburetors. For carburetors, linkage and fuel lines, we recommend that you contact Automotion Rochester Carburetor Service, 837- 36th Avenue Northeast, Great Falls, MT, 59404- (406) 453-5395 (phone and fax).

CARBURETOR (Qty. 3)	REFERENCE	PARTS REQUIRED FOR INSTALLATION
Rochester 2GC Type (2bbl)	A, I	Custom throttle linkage required, refer to <i>CAUTION</i> above for details.

- A - Carburetor will work with non-EGR or pre-emission control systems.
- I - Carburetor has no provisions for evaporative canister.

- **THROTTLE & ACCESSORY BRACKETS:** The throttle and kickdown bracket on some vehicles may require modification to fit. This manifold will not accept any alternator bracket assembly which mounted to the OEM manifold (check with aftermarket suppliers of alternator brackets such as B&M, Mr. Gasket, TD Performance Products, etc.). It has no provision for ignition coil, and will accept front (early style) oil filler tube. Valve covers with adequate ventilation provisions are required (PCV valve and breather recommended).
- **GASKETS:** Do not use competition style intake gaskets for this street manifold. Due to material deterioration over time, internal leakage of vacuum, oil, and coolant may occur.

INTAKE MANIFOLD	REFERENCE	RECOMMENDED GASKET
5417	(None)	Edelbrock #7235 Port: 1.08" x 2.11", .120" Thickness

NOTE: To ensure maximum performance and a proper seal, Edelbrock gaskets which are specifically designed and manufactured for use with Edelbrock parts must be used.

- **SPECIAL NOTE:** This intake manifold is primarily intended for use with Vortec-style heads on pre-Vortec blocks. Standard engine blocks route the thermostat bypass water from the block directly to the water pump through the passenger side water pump mounting flange. If the manifold is used on a 1996 or later Vortec engine that does not have the in-block bypass passage, you must route a thermostat bypass hose from the water bypass port on the front of the intake manifold to the 5/8" hose nipple on the passenger side of the Vortec water pump. Use a 3/8" NPT (pipe thread) to 5/8" hose nipple fitting, and a 7' length of 5/8" hose to accomplish this. If your engine block has the thermostat bypass passage, use the 3/8" NPT plug supplied in the kit to plug the bypass port in the front of the intake manifold.
- **PREP AND TUNING FOR POWER:**
 1. Specific applications may show an increase in power by tuning the fuel mixture.
 2. Aftermarket distributor curve kits may be used with this intake manifold. HEI distributors WILL NOT fit.
 3. Use modified or high performance cylinder heads such as our E-Tec 170.
 4. Installation of aftermarket headers, camshafts or both may lean carburetor calibration. Should this condition occur, recalibrate with a richer jet.
- **CAMSHAFT AND HEADERS:** *Three-Deuce* intake manifolds are compatible with aftermarket camshafts and headers. Header primary tube diameter should be 1-5/8" to 1-3/4" depending on the specific engine combination. Edelbrock has developed two camshafts for use with this intake manifold - Performer-Plus #2103 or Torker-Plus #5002. Please check the catalog or website for rpm and application guidelines.

INSTALLATION INSTRUCTIONS

- 1) Use only recommended intake gaskets set when installing this intake manifold.
- 2) Fully clean the cylinder head intake flanges and the engine block end seal surfaces.
- 3) Apply Edelbrock Gasgacinch sealant P/N 9300 to both cylinder head flanges and to the cylinder head side of the gaskets, allow to air dry, and attach the intake gaskets.
- 4) Do not use cork or rubber end seals. Use RTV silicone sealer instead. Apply a 1/4" high bead across each block end seal surface, overlapping the intake gasket at the four corners. This method will eliminate end seal slippage.
- 5) Apply removable thread lock, such as blue Loctite, to the intake bolt threads. Install the intake manifold bolts. Carefully tighten the intake manifold bolts evenly until the intake manifold has lightly compressed the gasket.
- 6) Torque all of the manifold bolts in two steps by the sequence shown in Figure 1 to 11 ft/lbs.

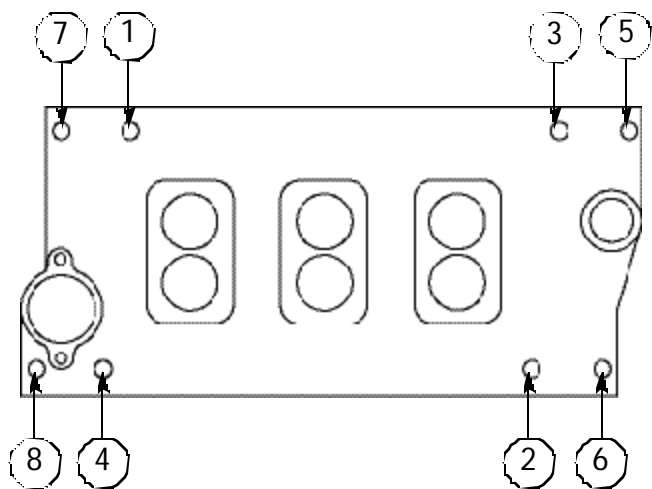


Figure 1 - Small Block Chevy Vortec Torque Sequence
Torque Bolts to 11 ft/lbs.

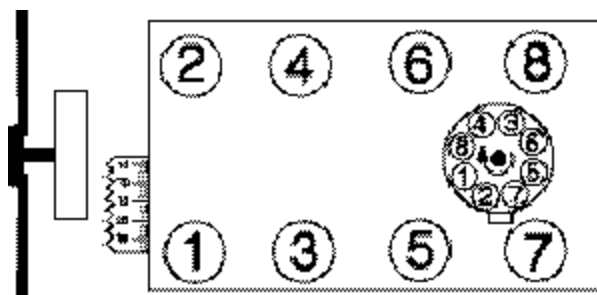


Figure 2 - 262-400 c.i.d. Small Block Chevy Firing Order
Firing Order: 1-8-4-3-6-5-7-2
Turn Distributor Counter-Clockwise to Advance Timing

Edelbrock Corporation • 2700 California St. • Torrance, CA 90503
Tech Line: 800-416-8628
E-Mail: Edelbrock@Edelbrock.com