



PERFORMER T.B.I. INTAKE MANIFOLD
PART #3713
MODEL: CHEVROLET 4.3L 90° V6 T.B.I. (1987 and later)
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 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.

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

- **EGR SYSTEMS:** Edelbrock Performer manifolds equipped with EGR are compatible with exhaust emissions or emissions related stock components. Non-EGR equipped manifolds will not accept stock EGR (Exhaust Gas Recirculation) equipment. EGR systems are used on some 1972 and later model vehicles and only in some states. Even though manifolds are compatible with EGR systems, this does not mean they are legal for use on emissions controlled vehicles. Check local laws for legality.
- **COMPUTER CHIP:** It is necessary that you make a change to the computer chip in your original equipment ECU to get the desired results of increased horsepower and torque for the Edelbrock Performer Manifold Part No. 3713, 4.3L V-6 Intake. To ensure you obtain the correct computer chip, it is necessary to complete the attached postage pre-paid Information Card and return to Edelbrock.
- **ACCESSORIES & INSTALLATION ITEMS:** Major recommendations are listed below. However, due to the variety of years, makes and models to be covered, please review each part listed in the Installation Items section of the Edelbrock catalog to decide whether more items are required for your specific vehicle than are mentioned in these instructions.
- **THROTTLE BODY INJECTORS:** Use only OEM-type throttle body fuel injectors and base gasket. The use of the GM or aftermarket 2-inch throttle body injection units is not recommended.
- **POWER PACKAGE:** Edelbrock Performer manifolds are part of a total Power Package Parts System that can be completed with the use of Tubular Exhaust Systems and related parts specifically designed to give you maximum results. Please refer to the Power Package Guide in the Edelbrock catalog to select all the components you need.
- **GASKETS AND SEALANT**
CAUTION: Do not use high-performance or competition type intake gaskets for street applications. Due to material deterioration under street conditions, internal leakage of both vacuum and oil may occur.
 1. Use only Fel-Pro Printoseal or OEM, #10159423 equivalent gaskets when installing Edelbrock manifolds for street applications.
 2. Apply Edelbrock Gasgacinch, #9300, sealant to both sides of the manifold as well as head surfaces. This procedure ensures a good seal.
 3. Eliminate the end seals. Instead, use only OEM-approved RTV sealers designed for use with O2 sensors. Apply a bead of sealant approximately 1/4" high across the block end seal surface, overlapping the intake gasket at the four corners. This method eliminates end seal slippage and deterioration.

- **BRACKETS:** The factory stud that secures the map sensor bracket should be deleted. Use the included screw and attach the bracket against the manifold. The power brake boss has been raised 1" and will require the included spacer between the throttle bracket and the hard line. This manifold will accept all factory accessories and hardware.

- **MANIFOLD TORQUE**
Torque all bolts circled in Figure 1 to 25 ft./lbs. See Figure 2 for proper sequence.

- **EGR VALVE**
Manifold will accept OEM EGR valve. The EGR valve has been relocated; use the 5/32" vacuum hose (included).

- **FIRING ORDER AND CYLINDER NUMBERING**
For cylinder numbering and firing order, see Figure 1.

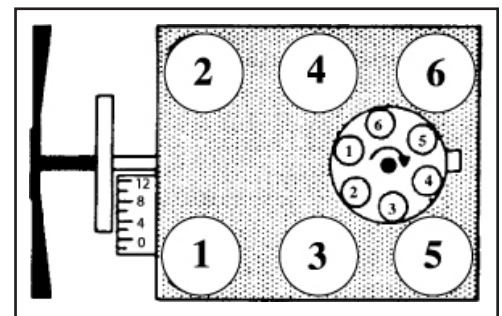


Figure 1 - Firing Order 1-6-5-4-3-2
Turn Distributor Counter-clockwise to Advance Timing

- **FINAL TUNING**

1. Performer manifolds deliver excellent driveability and power utilizing the factory OEM distributor settings.
2. If fuel lines come in contact with manifold, loosen the T.B.I.-to-manifold bolts and attach the fuel line to the T.B.I. Carefully pry the fuel line away from the manifold with a large screwdriver or similar tool, then re-tighten all bolts and connections.
3. Cut the T.B.I. base gasket to match the manifold (see Figure 2).

- **TUBULAR EXHAUST SYSTEMS:** Use only parts compatible with computer-controlled engines, such as Edelbrock Tubular Exhaust Systems. Do not use other header systems which are not tested for compatibility with computer controlled TBI systems. Those headers may not position the O2 sensor in the correct location, causing improper operation of the injector.

- **PARTS SUPPLIED WITH MANIFOLD:**

- 1— Throttle boss stud
- 1— 5/32" x 12" vacuum hose
- 1— 5/16"-24 nut
- 2— 5/16" flat washers
- 1— 3/4" o.d. x 3/8" i.d. x 1" spacer

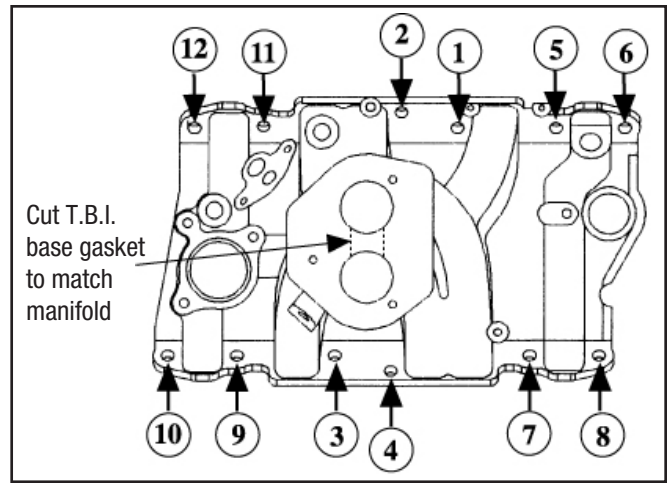
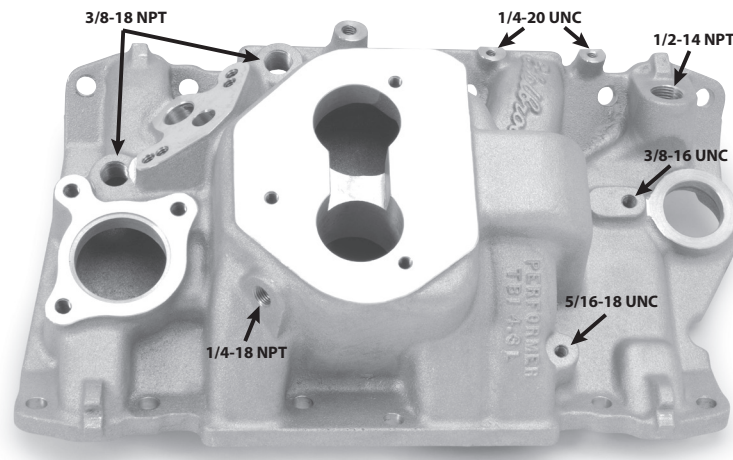


Figure 2
Intake Manifold Tightening Sequence



Fitting Boss Thread Sizes



Edelbrock LLC • 2700 California St. • Torrance, CA 90503
Tech Line: 800-416-8628