



PERFORMER T.B.I. INTAKE MANIFOLD

PART #3713

MODEL: CHEVROLET

4.3 Litre 90° V6 T.B.I. (1987 and later)

INSTALLATION INSTRUCTIONS

PLEASE study these instructions, and the General Instructions, carefully before installing your new manifold. If you have any questions, do not hesitate to contact our **Technical Hotline at: 1-800-416-8628**, 7 am-5 pm, Pacific Standard Time, Monday through Friday.

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.

- **EGR SYSTEMS:** Edelbrock EGR equipped Performer T.B.I. manifolds are intended as a direct functionally identical replacement for their O.E.M. counterparts. All exhaust emissions or emissions related stock components will be retained and functional.
- **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, 4.3 Litre 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 1 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 2.

- **FINAL TUNING**

NOTE: Local emission laws must be checked for legality of injector or ignition changes.

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 1).

- **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

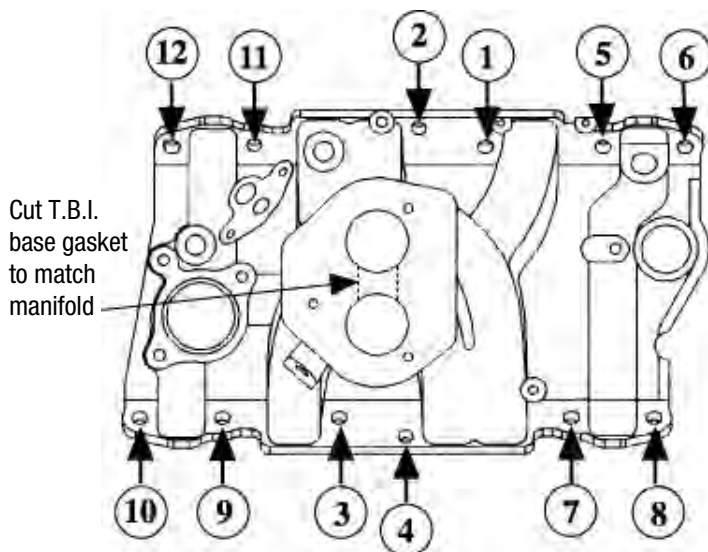


Figure 1
Intake Manifold Tightening Sequence

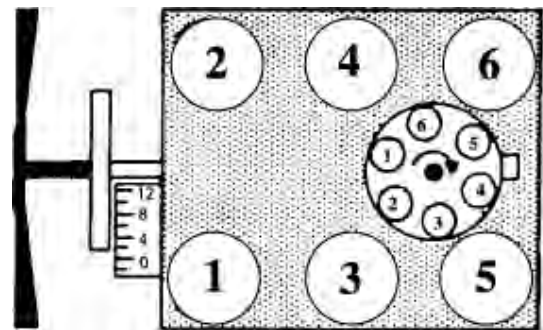


Figure 2
Firing Order 1-6-5-4-3-2
Turn Distributor Counter-clockwise to Advance Timing



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