



**PRO-FLO XT INTAKE MANIFOLD**  
**For GM LS & LM Cathedral Port Engines**  
**Part #7139, 7140, 71393, 71403**  
**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.

**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.**

**DESCRIPTION:** The Edelbrock Pro-Flo XT intake manifold is designed to allow the use of electronic direct port fuel injection on Chevy LS1, LS2 and LS6 engines. The dimensions of the manifold are shown in the diagram on the second page. This intake manifold features a log style plenum and large free-flowing tunnel ram style runners. The throttle body flange can accommodate a bore of up to 90mm. PN 7139 accepts stock 3-bolt and Edelbrock 4-bolt 90mm throttle bodies. PN 7140 accepts either Edelbrock or factory 90mm 4-bolt throttle bodies but not 3-bolt style throttle bodies. A provision for installing an LS1-style MAP sensor has been drilled and a separate mounting bracket is supplied.

**KIT CONTENTS:**

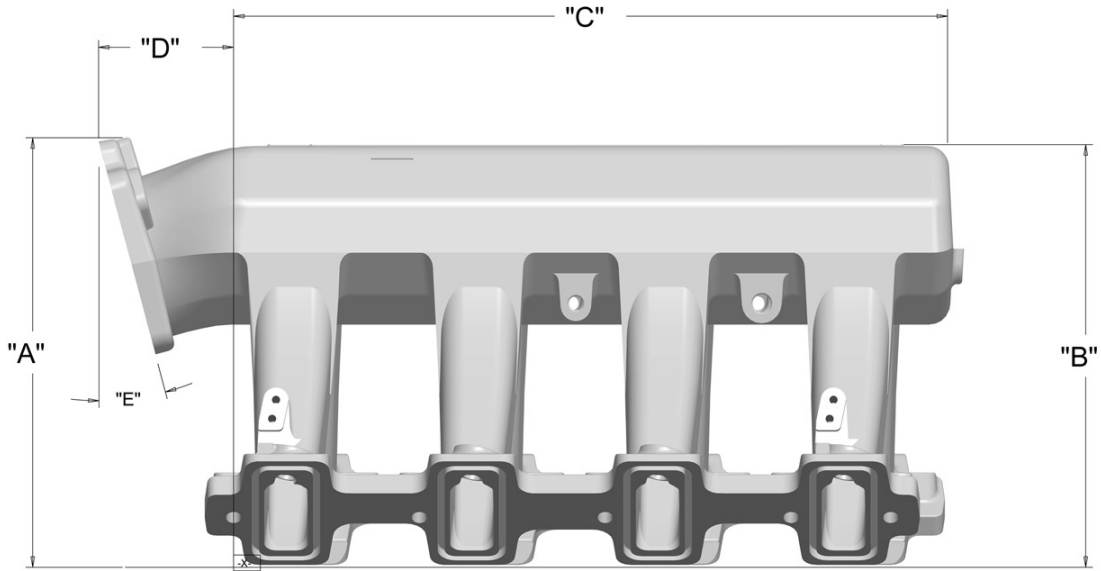
(1x) - Manifold	(1x) - 1/8" NPT x 3/16" Hose Barb Fitting	(1x) - 1/4" NPT Plug	(2x) - 1/8" NPT Plug
(1x) - Throttle Bracket	(1x) - 1/4" NPT x 3/8" Hose Barb 90° Fitting	(2x) - 1/4"-20 Flange Head Bolt	
(1x) - MAP Sensor Bracket	(2x) - 1/8" NPT x 5/16" Hose Barb 90° Fitting	(1x) - 1/4"-20 Button Head Screw	

**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](http://www.edelbrock.com).

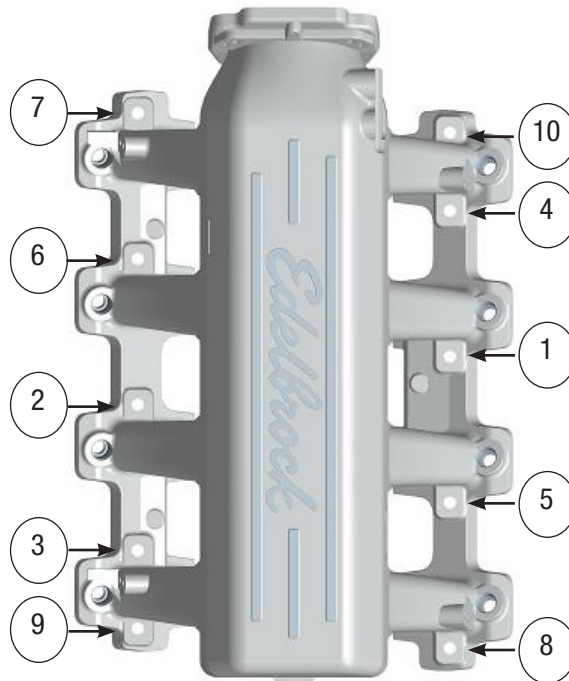
- **EGR SYSTEMS:** Intake manifold will not accept stock EGR (Exhaust Gas Recirculation) equipment. EGR systems are used on most 1972 and later model vehicles. Check local laws for requirements. This manifold is not intended for use on late model emissions compliant applications.
- **ENGINE MANAGEMENT:** This manifold was developed for use with the Pro-Flo XT EFI management system, part #3529. If this manifold is being used separately, it will require several additional components such as a throttle body and ECU, as well as sensors, injectors and rails before the installation can be completed. Although Edelbrock offers these components separately, compatibility with your EFI system must be confirmed prior to purchasing and installing them.
- **MANIFOLD AIR PRESSURE SENSOR:** A bracket for mounting an LS1 style MAP sensor is included with this manifold. This sensor is sold separately as part #36019, but compatibility with your engine management system must be verified prior to purchase.
- **THROTTLE BODY RECOMMENDATIONS:** PN 7139 has been designed to optimize performance when used with a 90mm throttle body, such as the Pro-Flo XT throttle body, part #3869. Smaller LS1 throttle bodies (including Edelbrock part #3867 & #3868) will require an adapter for proper operation, part #2737. PN 7140 only accepts 90mm throttle bodies.
- **THROTTLE BRACKETS:** A universal throttle cable bracket has been supplied with this intake manifold. It will work with most OEM cables using a square clip retention system or Lokar cables utilizing 5/16" holes, but some applications will require modification or substitution for proper operation. This manifold is not compatible with throttle rods and such systems should be converted to cable operation.
- **FUEL RAILS:** The Chevy LS1/LS6 Pro-Flo XT Fuel Rail Kit has been designed for use with this manifold and is available as part #3629. This kit will allow the use of either Pico or standard height fuel injectors.
- **GASKETS:** This manifold has been designed to use the OEM o-ring style gaskets, available as GM #12533587. Do not use competition-style intake gaskets for these street manifolds. Due to material deterioration over time, internal leakage of vacuum, and/or oil may occur. Edelbrock offers an intake manifold bolt kit, PN 8515, developed specifically for LS engines.
- **CAMSHAFT AND HEADERS:** Pro-Flo XT series manifolds are compatible with aftermarket camshafts and headers designed to work anywhere within the 1500-7000 rpm range. Header primary tube diameter should be at least 1-3/4".
- **AIR INLET:** Additional torque gains can be achieved by using a 4.00" diameter by 24" long short ram air intake.

## INSTALLATION PROCEDURE

1. Use only the recommended intake gasket set when installing this intake manifold.
2. Fully clean the cylinder head intake flanges, then install the factory seals into the grooves on the manifold intake flanges.
3. Install the intake manifold and M6 x 1.0 x 50mm hold-down bolts (PN 8515), following the sequence shown below.



P/N	A	B	C	D	E
7139	10.2	10	16.9	3.2	15°
7140	9.7	10	16.9	3.1	15°



***Chevy LS1/LS6 Torque Sequence***  
***Torque all bolts to 11 ft/lbs.***

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