



PRO-FLO XT INTAKE MANIFOLD
For GM LS3 Rectangle Port Engines
Part #7142
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.

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: This Edelbrock Pro-Flo XT intake manifold is designed for use with electronic, sequential port fuel injection on Chevy LS3 engines. This intake manifold features a log style plenum and large, free-flowing tunnel ram style runners. Out of the box, the throttle body flange can accommodate a 90mm throttle bore but can be ported up to 105mm. This manifold accepts either factory or Edelbrock 90mm 4-bolt throttle bodies but not 3-bolt style throttle bodies. A provision for installing an LS3-style MAP sensor is drilled and a separate mounting bracket is supplied. The dimensions of the manifold are shown in the diagram on the second page for installation and fitment reference.

KIT CONTENTS:

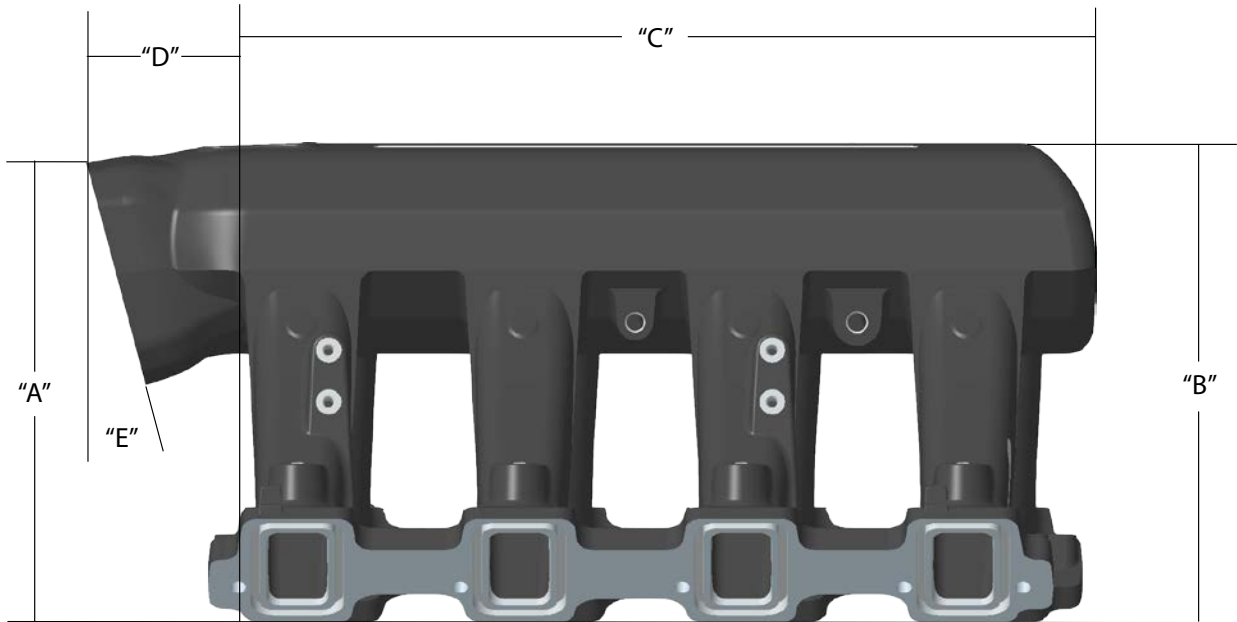
(1x) - Manifold	1x) - 1/4 NPT Plug	(1x) - 1/8 NPT Plug	(1x) - M6 x 12mm Hex Flange Bolt
(1x) - Throttle Bracket	(2x) - M6 x 16mm Hex Flange Bolt	(1x) - MAP Sensor Bracket	

ACCESSORIES & INSTALLATION ITEMS: Major recommendations are listed below.

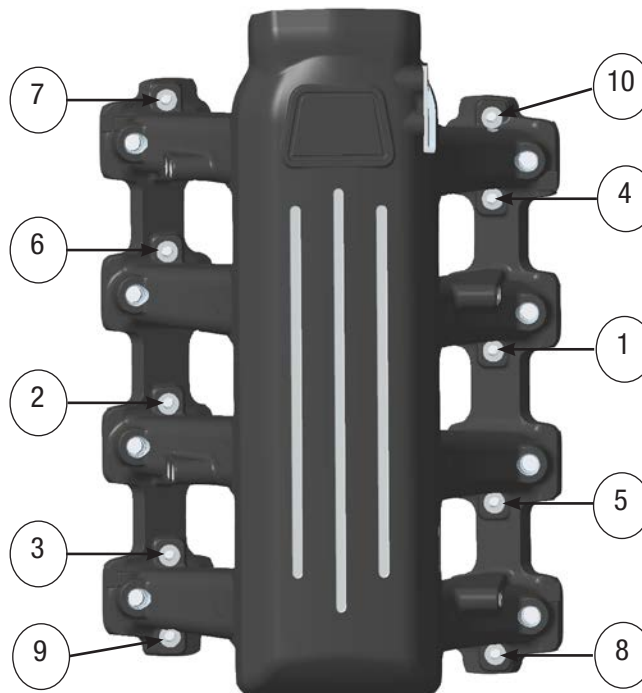
- **ENGINE MANAGEMENT:** This manifold was developed for use with Edelbrock Pro-Flo XT EFI engine management systems. If this manifold is being used separately, it will require several additional components such as a throttle body, ECU or calibration of factory GM ECU, MAP sensor, injectors and fuel rail kit (PN 3648) 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 LS3 style MAP sensor is included with this manifold. Edelbrock recommends the use of a factory MAP sensor GM # 55573248. Check compatibility and requirements for your EFI system before purchasing.
- **THROTTLE BODY RECOMMENDATIONS:** This manifold is designed to use a factory LS3 drive-by wire or Edelbrock 90mm mechanical throttle body, such as the Pro-Flo XT throttle body, part #3869. Out of the box, the throttle body flange can accommodate a 90mm bore but can be ported up to 105mm for larger aftermarket throttle bodies. For further customization, Lokar's stainless steel cable bracket TCB-40EDXT will fit PN 7142.
- **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 LS3 Pro-Flo XT Fuel Rail Kit has been designed for use with this manifold and is available as part #3648.
NOTE: This manifold and corresponding fuel rail kit PN 3648 (sold separate) are designed to use 38mm "short" fuel injectors (1.50" O-ring center to O-ring center) or 65mm "long" fuel injectors (2.50" O-ring center to O-ring center). The manifold injector bosses are machined for 14mm O.D. injector O-rings. Stock LS3 injector O-rings are 15mm but are interchangeable with standard 14mm O-rings.
- **GASKETS:** This manifold has been designed to use the OEM O-ring style gaskets, available as GM # 19256623. 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 with a 10" cone filter such as Edelbrock PN 43690.

INSTALLATION PROCEDURE

1. Use only the recommended intake gasket set when installing this intake manifold.
2. 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 45mm hold-down bolts (PN 8515). Snug all bolts first, then follow the sequence shown below.



P/N	A	B	C	D	E
7142	9.28"	9.68"	17.04"	3.02"	15°



Chevy LS3 Torque Sequence
Torque all bolts to 11 ft/lbs.