



# EDELBROCK SINGLE TANK FUEL PUMP KIT For Performer MPFI Installations (Except 1995 Tahoe) Catalog #3581

## 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](mailto:Edelbrock@Edelbrock.com).

**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 Fuel Pump Kit is necessary to complete the installation of all Performer Multi-Point Fuel Injection (MPFI) systems for 1987-95 TBI-equipped Chevy/GMCs with single fuel tank (except 1995 Tahoe, which may use the original equipment fuel pump). Dual fuel tank vehicles must use Dual Fuel Pump Kit #3580. Installation of this part is covered in the Performer Multi-Point Fuel Injection System installation instructions. For your convenience, we have re-printed the fuel pump installation portion of those instructions here.

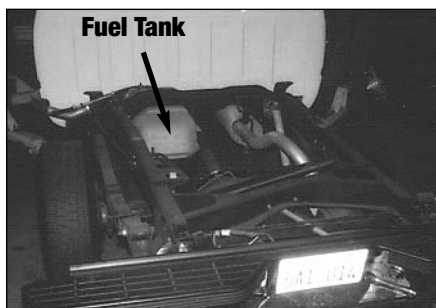
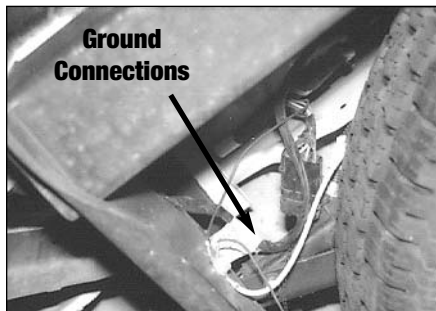
### INSTALLATION PROCEDURE

#### 1. FUEL PUMP INSTALLATION

For the TBI multipoint conversion, it is necessary to install a high-pressure fuel pump (#3581 for single tank vehicles, sold separately).

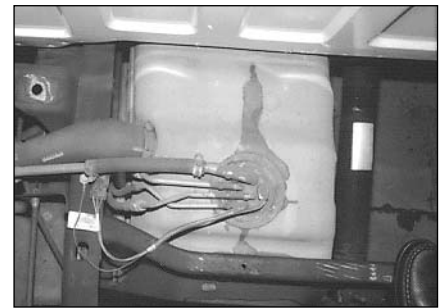
**IMPORTANT NOTE:** On trucks with dual tank set-ups, it will be necessary to install Edelbrock Dual Fuel Tank Conversion Kit #3580, available from your Edelbrock dealer, or call Edelbrock directly for sales or dealer assistance. Dual tank vehicles do not require removal of the tanks or pick-up bed, as the new fuel pump kit #3580 mounts on the vehicle frame. See installation instructions supplied in kit.

To install pump #3581 on single tank vehicles, you must gain access to the top of your fuel tank. If you have a Suburban, you will need to drain the fuel tank and drop from the rear of the vehicle. If you have a truck, we recommend removing the bed to reach the fuel tank. On truck beds, you will usually find eight mounting bolts, two ground wires, a couple of weather pack electrical connectors (near license plate area), and you will need to disconnect your fuel fill neck from the bed. With all



bed bolts and wires disconnected, four people can lift off the bed. This takes about 20-30 minutes, which is much faster than draining and removing tank.

With bed removed you will see top of the fuel tank. Use a cleaning brush and/or compressed air and clean the top of fuel sending unit area so no debris enters the fuel tank when removing this assembly. Disconnect two fuel lines, two hoses, and an electrical connection with a ground wire. There is a center fuel pump sending unit assembly lock ring holding the assembly into the tank.



Using a hammer and brass punch, gently strike open edge of lock ring in a counter clockwise direction. Keep hitting until lock ring rotates enough to release. Again blow or brush top area clean and carefully remove the entire assembly.



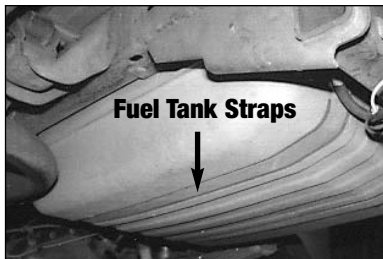
**Be careful on removal! Take your time!**

### Alternate Procedure: Lowering the Fuel Tank

Suburbans (or trucks that you cannot remove the bed), require removal of the fuel tank(s). The fuel tank must be lowered from beneath the vehicle. First drain the fuel, then disconnect the ground wire and the weather pack electrical connector. Then disconnect gas fill hose and vent hose.



Let the tank drop enough to gain access to the fuel lines, then disconnect fuel lines and remove tank from vehicle. Most tanks have two mounting straps which must be removed.



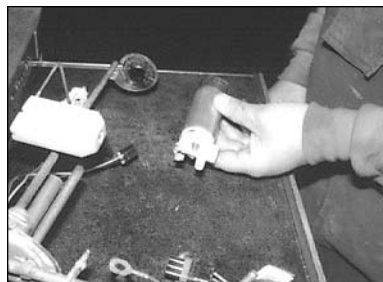
### 2. FUEL PUMP ASSEMBLY:

With fuel pump assembly on bench, loosen and slide up the lower plastic clamp on top of fuel pump. Now disconnect the electrical connection.



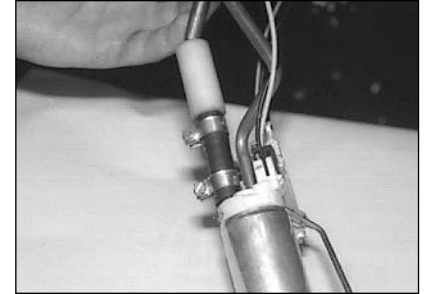
On the bottom of the fuel pump there is a fuel strainer sock. Make note of the orientation of the fuel strainer sock on the stock fuel pump so that you can attach the supplied fuel sock in the same orientation on the new pump. Remove the strainer sock.

Use a small flat blade screwdriver to gently pry around strainer and it will pop off. Carefully slide the factory fuel pump out of the assembly. Install the new fuel pump supplied in the kit into this assembly.



**NOTE:** There is a kit supplied with the new fuel pump. Install the 3" length of fuel hose onto the 3/8" steel tubing where the old fuel pump junction hose was previously. Use the 3/8" hose clamp to secure hose to steel tubing. The fuel line will be a very tight fit over the 3/8" tubing. It may be necessary to lube the tubing with some spray lubricant to ease hose installation. You must use the supplied 3" length of hose. DO NOT use the stock rubber fuel hose.

Slip the 5/16" clamp over the rubber hose, then insert fuel pump barb into hose and secure with 5/16" clamp. Be sure there is adequate clearance between the metal hose clamp and the electrical connections on the pump. Some shortening of the rubber hose may be necessary for proper alignment of the pump with the pump hanger.



Use the new rubber base gasket for fuel pump. If the big O-ring in fuel tank is OK, (not torn) you may reuse it. If necessary, replace with original equipment O-ring from a GM dealer. Make sure to grease large O-ring with white grease or equivalent. Making sure clamp is tight and electrical connector is connected, install the new strainer sock into same position as noted earlier. It will push on by hand. No tools are required.



Install the complete assembly back in the fuel tank. Make sure you don't bend anything while reinstalling. Lock assembly back in place by rotating lock ring clockwise until it hits its stops. Now tighten fuel connections and hose clamps. Make electronic connection and ground connection. Re-install fuel tank (Suburbans, etc.). Do not re-install bed on pick-up trucks at this time.



**See Performer Multi-Point Fuel Injection installation instructions for remainder of system installation.**

**Edelbrock Corporation • 2700 California St. • Torrance, CA 90503  
Tech-Line: 1-800-416-8628 • E-Mail: Edelbrock@Edelbrock.com**