



## **TPI ADJUSTABLE FUEL PRESSURE REGULATOR KIT P/N 512-501 Installation Instructions**

**WARNING! THESE INSTRUCTIONS MUST BE READ AND FULLY UNDERSTOOD BEFORE BEGINNING THE INSTALLATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN POOR PERFORMANCE, VEHICLE DAMAGE, PERSONAL INJURY, OR DEATH. IF THESE INSTRUCTIONS ARE NOT FULLY UNDERSTOOD, INSTALLATION SHOULD NOT BE ATTEMPTED. PLEASE CONSULT HOLLEY TECH SERVICE OR A QUALIFIED MECHANIC.**

### **INTRODUCTION:**

Holley Performance Products cannot and will not be responsible for any alleged or actual engine or other damage, or other conditions resulting from misapplication of the fuel pressure regulators described herein. However, it is our intent to provide the best possible products for our customer; products that perform properly and satisfy your expectations. Should you need information or parts assistance, please contact our Technical Service Department at 1-270-781-9741, Monday through Friday, 7 a.m. to 5:00 p.m. Central Time. Please have the part number of the product you purchased when you call.

### **KIT CONTENTS**

- Adjustment Knob
- Regulator Housing
- Vacuum Fitting (attached to Housing)
- Spring Washer
- Regulator Spring
- Diaphragm

### **ADDITIONAL PARTS AND TOOLS REQUIRED**

- T10 Tamperproof Torx Bit
- Plenum to Intake Runner Gaskets GM P/N 10174951
- 3/8" Drive Socket Set
- Hammer

### **FUEL PRESSURE REGULATOR INSTALLATION:**

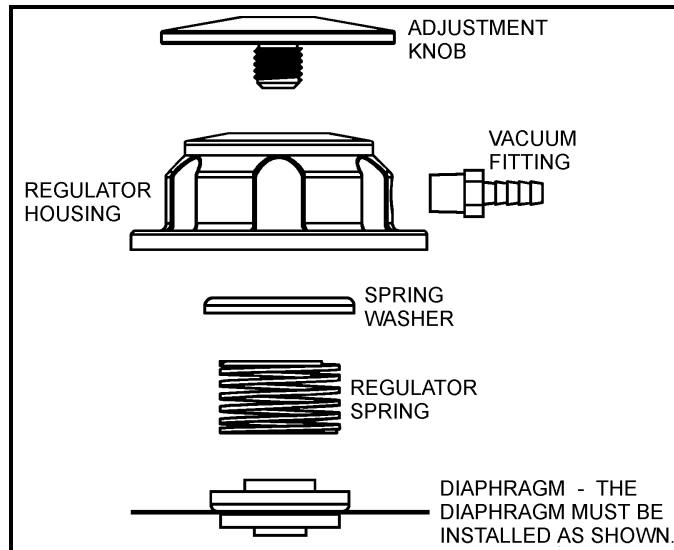
The fuel pressure regulator in this instruction sheet is designed to be an adjustable replacement for the stock O.E. regulator. The adjustable fuel pressure regulator is used mainly for high performance applications. A fuel pressure gauge must be purchased for setting the fuel pressure. Install the fuel pressure gauge according to the manufacturer's recommendation. The Holley TPI adjustable fuel pressure regulator kit will reuse the torx screws and base. DO NOT discard or damage these items during disassembly. Use Figure 1 as a guide for assembling the kit. It will also be necessary to purchase new Plenum to intake runner gaskets GM P/N 10174951, for this installation.

**WARNING! Always use a fuel pressure gauge when adjusting the fuel pressure. Excessive fuel pressure may effect performance or damage the fuel system.**

**WARNING! Wipe up any spilled fuel after the installation has been completed. Spilled fuel can ignite on a hot engine, causing a fire and/or explosion, which may result in property damage, serious injury, and/or death.**

1. Remove the gas cap from the fuel tank and pull the fuel pump fuse from the fuse block located under the hood. Now try to start the motor. This will let the fuel pressure drop, preventing excess fuel spillage when removing the regulator cover.
2. Disconnect the battery.

3. Remove the vacuum lines from the rear of the plenum, noting the locations. The power brake line is on the left rear of the plenum and the two smaller vacuum lines are on the right rear. Disconnect the two water lines from the under side of the throttle body.
4. Remove the 8 bolts that hold the plenum to the intake runners. With a rubber mallet tap lightly on the plenum until it is loose. Lift the plenum up and disconnect the electrical connector. Set plenum aside.
5. To remove the regulator cover on the O.E. regulator, use a T10 Tamperproof Torx bit. DO NOT discard the screws.
6. Remove the regulator cover, regulator spring, and diaphragm.
7. To ease the installation of the Holley fuel pressure kit, remove the adjustable knob from the regulator cover. Place the spring washer inside the Holley regulator cover, then the spring, and finally the diaphragm. It is very important for the diaphragm to be installed as shown in Figure 1.



**Figure 1**

8. Place the Holley regulator assembly over the regulator base, aligning the screw holes on the base of the regulator, the diaphragm and the cover. Tighten cover down using the 6 torx screws removed earlier.
9. Loosely screw the adjustment knob into the top of the regulator housing.
10. To finish, reverse steps 1 - 6, using new gaskets between the runners to plenum surfaces.
11. Refill to the correct coolant level.
12. Once everything is back together, turn the key to the run position and have somebody watch for fuel leaks. If no leaks are present, start the car.
13. A good starting point for the fuel pressure is 47 psi. However, you may find your particular combination to perform best above or below this number. Pressure must be set with the regulator vacuum hose removed. Turn the knob clockwise to raise pressure and counter-clockwise to lower pressure. The adjustment range for this regulator is from 30 to 65 psi.