

Mallory Adjustable TPI Fuel Pressure Regulator Conversion Kit Part No. 4315

Note: This kit utilizes your stock GM diaphragm assembly and simply converts it to be adjustable. Examine the condition of your diaphragm assembly before you install the new Mallory cover. We recommend that you have a service manual available for reference purposes.

Step 1 Relieve the fuel line pressure by disabling the relay/fuse then starting the engine. The engine may run momentarily, then stall. Crank the engine again for 3-5 seconds to insure that all fuel has been cleared from the rail. Check the fuel line pressure to insure it reads zero.

Step 2 Locate the fuel pressure regulator that is commonly located on the rear portion of the fuel rail assembly. Remove the vacuum line and plug it off. Note the position of the vacuum port on the factory cover.

Step 3 Remove the six fasteners that hold the stock cover to the rail assembly. Carefully remove the top of the regulator.

Step 4 Inspect the condition of the diaphragm assembly and the sealing surface. It must be clean to insure the new Mallory cover assembly will seal properly..

Step 5 Rotate the screw counterclockwise until it is flush with the bottom of the inside of the cover and gently snug the jam nut. Position the new cover assembly over the diaphragm, making sure that the flat on the housing is located next to the straight portion of the flange. Insert the six fasteners and slowly turn them until they are just barely snug. Torque them to the factory specification using a crossing pattern. Do not reconnect the vacuum line at this time.

Step 6 Install a fuel pressure gauge on the fuel rail and reinstall the fuel pump relay/fuse. Turn the key to the run position, but do not start the engine. Check for any fuel leaks. Repeat this step at least 3 times to insure a leak free installation.

Step 7 Start the engine and allow it to idle. Check the fuel pressure and adjust it accordingly to match the pressure shown in your service manual. In most applications this is about 45 PSI. To increase the fuel pressure, turn the adjusting screw clockwise. Make sure you retighten the jam nut after making any adjustments. Reconnect the vacuum line.

Step 8 After driving the vehicle for an hour or so, we suggest that you recheck the regulator for any leaks.

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