



**AEROMOTIVE Part # 13105  
INSTALLATION  
INSTRUCTIONS**



**CAUTION:**

Installation of this product requires detailed knowledge of automotive systems and repair procedures. We recommend that this installation be carried out by a qualified automotive technician.

Installation of this product requires handling of gasoline. Ensure you are working in a well ventilated area with an approved fire extinguisher nearby. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle before proceeding with the installation.

When installing this product, wear eye goggles and other safety apparel as needed to protect yourself from debris and sprayed gasoline.

**WARNING!**

The fuel system is under pressure. Do not open the fuel system until the pressure has been relieved. Refer to the appropriate vehicle service manual for the procedure and precautions for relieving the fuel system pressure.

NOTE: Testing the enclosed regulator by applying air pressure or vacuum to the vacuum port with a hand-held pump will yield poor results, due to the slight air leakage through the adjustment screw threads. This minute leakage, which is typical of all adjustable fuel pressure regulators, does not, in any way, affect the performance of the regulator.

The enclosed Aeromotive regulator utilizes one AN-06 style inlet fitting, located on the side of the regulator and one AN-6 style bypass fitting, located on the bottom of the regulator; these regulator fittings are NOT PIPE THREAD and utilize NO THREAD SEALANT. To use the enclosed regulator in your vehicle's fuel system, you must install the necessary adapter fittings and o-rings, high pressure fuel lines and/or fuel injector rails to adapt your system to the configuration and ports of this regulator. The following instructions assume that your fuel system has already been configured for use with this regulator.

Aeromotive system components are not legal for sale or use on emission controlled motor vehicles.

The following steps are typical of most installations:

1. Once the engine has been allowed to cool, disconnect the negative battery cable and relieve the fuel system pressure.
2. Remove any cosmetic covers necessary to allow access to the fuel pressure regulator.
3. Remove the vacuum line from the regulator.

4. Place shop towels around the existing regulator to catch any gasoline that is spilled during this step of the installation. Remove any regulator mounting hardware and connecting fuel lines, then carefully remove the existing regulator.
5. Find a suitable place in the vehicle's engine compartment to mount the Aeromotive regulator. Using the supplied mounting bracket as a template, mark the bracket mounting holes and drill to accept a ¼ inch screw.
6. Mount the bracket and regulator to the vehicle using two ¼ inch screws, nuts and lock washers.
7. Attach the fuel supply line to the AN-06 port on the side of the regulator using AN-06 style hoses and hose ends.
8. Attach the fuel return line to the AN-06 port on the bottom of the regulator using an AN-6 style hoses and hose ends.
9. Tighten all connections.
10. Once the regulator is installed, attach a suitable fuel pressure gauge to either the 1/8-NPT gauge port on the regulator or the schrader valve in your vehicle's fuel system. Refer to your vehicle service manual for instructions on performing this step.
- 11. Ensure that any spilled gasoline and any gasoline soaked shop towels are cleaned up and removed from the vicinity of the vehicle!**
12. Reconnect the battery and turn the ignition to the ON position **WITHOUT** starting the car. After several seconds, check the fuel pressure. If there is no fuel pressure, turn the ignition key to the OFF position, wait one minute, return the ignition to the ON position, and recheck the fuel pressure. Repeat this ignition OFF and ON procedure until the fuel pressure gauge registers fuel pressure.
- 13. With the fuel pressure gauge registering fuel system pressure, check for fuel leaks from and around the Aeromotive regulator and all fuel lines and connections near the regulator! If any fuel leaks are found, turn the ignition key to the OFF position, remove any spilled fuel and repair the leak before proceeding!**
14. Once the fuel pressure gauge registers fuel system pressure and there are no fuel leaks, start the engine and adjust the regulator to the desired fuel pressure. Turning the adjustment screw clockwise will increase fuel pressure. OEM regulators are typically set at approximately 43 psi, without the vacuum line attached. The fuel pressure adjustment range for the enclosed regulator is 35-80 psi.
15. Once the desired fuel pressure is achieved, tighten the regulator adjustment jam nut and attach the vacuum line.
16. If you do not want to keep the fuel pressure gauge on the vehicle, refer to your vehicle service manual for the removal procedure.
17. Test drive the car to insure proper operation and re-check the fuel system for leaks. **If any leaks are found, immediately shut off the engine and repair the leak(s)!**

***AEROMOTIVE, INC.***