



**AEROMOTIVE Part # 13301
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 four 3/8 NPT pipe thread inlet/outlet ports and one 3/8-NPT pipe thread bypass port. In order to use the enclosed regulator in your vehicle's fuel system, you must install the necessary adapter fittings, 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.

Performance Specifications: Model 13301

Outlet Fuel Pressure, adjustable	3-20 psi low pressure spring (installed from factory) 20-65 psi high pressure spring
Max Pump Flow Rate	250 GPH
Inlet / Outlet ports	4ea. 3/8-NPT
Bypass port (located at bottom of regulator)	1ea. 3/8-NPT
Fuel Compatibility	Gasoline only

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 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 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 hole and drill to accept mounting bolt.
6. Determine approximate fuel pressure your system will require. If your fuel pressure requirement is between 3 and 20 psi, the factory installed regulator spring is the proper spring. If your fuel pressure requirement is between 20 and 65 psi, insure the pressure adjustment set screw is backed out all the way, remove the 4 cover screws and cover, remove the factory installed spring, replace it with the high pressure spring, and reassemble the regulator.
7. With the bracket attached to the regulator, mount the regulator to the vehicle.
8. Attach the fuel supply line(s) to the regulator using any of the 3/8-NPT ports located around the perimeter of the regulator. Install 3/8-NPT pipe plugs into any of the unused regulator inlet ports. **Please note that these ports are pipe threads and will require the use of a pipe thread sealant.**
9. Attach the fuel return line to the 3/8-NPT port located on the bottom of the regulator. Use the chart below to determine the minimum recommended return line size for your system. **Please note that these ports are pipe threads and will require the use of a pipe thread sealant.**

Regulator with 3-20 psi spring
Fuel Line ID Chart

Return Line Length (ft.)	Fuel Pump Free Flow Rating (GPH)			
	1 to 60 GPH	60 to 120 GPH	120 to 180 GPH	180 to 250 GPH
0-5 feet	3/8"	3/8"	1/2"	1/2"
5-10 feet	3/8"	1/2"	1/2"	5/8"
10-15 feet	3/8"	1/2"	5/8"	3/4"
15-20 feet	1/2"	1/2"	5/8"	3/4"

Regulator with 20-65 psi spring
Fuel Line ID Chart

Return Line Length (ft.)	Fuel Pump Free Flow Rating (GPH)			
	1 to 60 GPH	60 to 120 GPH	120 to 180 GPH	180 to 250 GPH
0-5 feet	3/8"	3/8"	3/8"	3/8"
5-10 feet	3/8"	3/8"	3/8"	3/8"
10-15 feet	3/8"	3/8"	3/8"	1/2"
15-20 feet	3/8"	3/8"	3/8"	1/2"

10. Tighten all connections.
11. Once the regulator is installed, attach a suitable fuel pressure gauge to the fuel system.
- 12. Ensure that any spilled gasoline and any gasoline soaked shop towels are cleaned up and removed from the vicinity of the vehicle!**
13. 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.
- 14. 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!**
15. 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.
16. Once the desired fuel pressure is achieved, tighten the regulator adjustment jam nut and attach the vacuum line.
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)!**

Thanks for purchasing another quality product designed, engineered and manufactured in
Kansas City, USA!

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AEROMOTIVE, INC. LIMITED WARRANTY

This Aeromotive Product, with proof of purchase dated on or after January 1, 2003, is warranted to be free from defects in materials and workmanship for a period of one year from the original date of purchase. No warranty claim will be valid without authentic, dated proof of purchase.

This warranty is to the original retail purchaser and none other and is available directly from Aeromotive and not through any point of distribution or purchase.

If a defect is suspected, the retail purchaser must contact Aeromotive directly to discuss the problem, possible solutions and obtain a Return Goods Authorization (RGA), if deemed necessary by the company. Please call 913-647-7300 and dial option 3 for the technical service dept. All returns must be shipped freight pre-paid to the company and with valid RGA before they will be processed.

Aeromotive will examine any product returned with the proper authorization to determine if the failure resulted from a defect or from abuse, improper installation, misapplication or alteration. Aeromotive will then, at it's sole discretion, return, repair or replace the product.

If any Aeromotive product is determined defective, buyer's exclusive remedy is limited in value to the sale price of the good. In no event shall Aeromotive be liable for incidental or consequential damages.

Aeromotive expressly retains the right to make changes and improvements in any product it manufactures and sells at any time. These changes and improvements may be made without notice at any time and without any obligation to change the catalogs or printed materials.

Aeromotive expressly retains the right to discontinue at any time and without notice any Aeromotive product that it manufactures or sells.

This warranty is limited and expressly limits any implied warranty to one year from the date of the original retail purchase on all Aeromotive products.

No person, party or corporate entity other than Aeromotive shall have the right to: determine whether or not this Limited Warranty is applicable to any Aeromotive product, authorize any action whatsoever under the terms and conditions of this Limited Warranty, assume any obligation or liability of any nature whatsoever on behalf of Aeromotive under the terms and conditions of this Limited Warranty.

This Limited Warranty covers only the product itself and not the cost of installation or removal.

This Limited Warranty is in lieu of and expressly excludes any and all other warranties, expressed or implied. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.