



AEROMOTIVE
Part # 13222
INSTALLATION INSTRUCTIONS

This product is not legal for sale or use on emission-controlled vehicles except when used as a direct replacement part matching OEM specification.

WARNING!



Always be aware of flammable situations. Drilling and grinding can be potential ignition sources. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle and workspace before proceeding with the installation. Ensure you are working in a well ventilated area with an approved fire extinguisher nearby.

WARNING!



etc.

Installation of this product requires modification to a fuel tank/ the fuel system, failure to satisfy all safety considerations will result in fire, explosion, injury and/or loss of life to yourself and/or others. All fuel system components **MUST** be located as far from heat sources as possible, like exhaust, engine block,

WARNING!



Mechanical and hydraulic lifting devices can tip over or lower accidentally due to incorrect maneuvering or technical errors. A falling object can cause injury and/or loss of life to yourself and/or others. When working under the vehicle, always use stands, and ensure that the ground or floor is stable and level. Never crawl under a vehicle which is only supported by a jack.

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.

CAUTION!



When installing this product always wear safety glasses and other appropriate safety apparel. A drilling operation will cause flying metal chips. Flying metal chips can cause eye injury.

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. Careless installation of this product can result in damage to the product, injury or loss of life to yourself and/or others.

Compatible Fuels:

Pump Gas
Race Gas
E85
Alcohol/Ethanol

The enclosed Aeromotive regulator utilizes straight thread, o-ring sealed ports. These regulator ports are **NOT PIPE THREAD** and utilize **NO THREAD SEALANT**. Equipped with one ORB-06 style inlet port and two ORB-06 style outlet ports, ORB-06 to AN male flare fittings are required. Aeromotive recommends fitting P/N 15606 for AN-06 line connections, P/N 15649 for AN-08 line connections and P/N 15626 if a port plug is needed.

Performance Specifications: P/N 13222

Outlet Fuel Pressure Adjustment Range: 2.0 – 5.0 psi
Maximum Inlet Pressure Range: 4.0 – 20.0 psi
Inlet port Size 1x ORB-06
Outlet Port Size 2x ORB-06

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

Aeromotive Commonly Used Port Fittings:

15606 – ORB-06 to AN-06 Flare
15609 – ORB-10 to AN-06 Flare
15626 – ORB-06 Port Plug
15649 – ORB-06 to AN-08 Flare

Aeromotive Commonly Used SS Braided Fuel Line:

15701 – AN-06 4' Length
15702 – AN-06 8' Length
15703 – AN-06 12' Length

Aeromotive Commonly Used AN-06 Hose-Ends:

15650 – AN-06 Straight Hose-End, Black Aluminum
15651 – AN-06 45-Degree Hose-End, Black Aluminum
15652 – AN-06 90-Degree Hose-End, Black Aluminum

Aeromotive Commonly Used Fuel Filters:

12324 – 100-micron, In Line, ORB-10 Filter, Black
12321 – 10-micron, In-Line, ORB-10 Filter, Black
12601 – 10-micron Replacement Element for 12301
12001 – Filter O-Ring, 10-Pack (For all ORB-10 Filters)



The following steps are typical of most installations:

1. Refer to the diagram above throughout the installation process.
2. Once the engine has been allowed to cool, disconnect the negative battery cable and relieve the fuel system pressure.
3. 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, carefully remove the regulator.
4. Find a suitable place in the vehicle's engine compartment to mount the Aeromotive regulator. With the regulator oriented such that the adjusting stud is on top and the inlet port on the bottom, use the supplied mounting bracket as a template and mark the bracket mounting holes.
5. Drill the mounting holes marked in step 4 adequate to accept #10 fasteners or sheet metal screws.
6. With the bracket attached to the regulator, mount the bracket and regulator to the vehicle using two #10 sheet metal screws, or #10 machine screws with matching nuts and lock washers.
7. Attach the fuel supply line to the bottom port of the regulator using an ORB-06 to AN-06 Flare (Aeromotive P/N 15606) or ORB-06 to AN-08 Flare (Aeromotive P/N 15649) fitting and o-ring.
8. Attach the fuel supply line(s) to the carburetor(s) using AN-06 or AN-08 style hose-ends. Install ORB-06 style plugs (Aeromotive P/N 15626) with o-ring into any outlet ports not used.
9. Tighten all connections.
10. Once the regulator is installed, after removing the gold colored hex plug from the pressure test port in the regulator base, attach a suitable fuel pressure gauge such as Aeromotive P/N 15632. Use a PTFE sealing paste to prevent leakage on NPT style threads.
- 11. Ensure that any spilled gasoline and any gasoline soaked shop towels are cleaned up and removed from the vicinity of the vehicle!**
12. Loosen the jamb nut at the base of the pressure adjusting stud in the cap of the regulator and back the adjusting stud out to the lowest pressure setting (2 psi).
13. Reconnect the battery and turn the fuel pump ON **WITHOUT** starting the car. After several seconds, check the fuel pressure. If there is no fuel pressure, turn the fuel pump OFF, wait one minute, return the fuel pump ON, and recheck the fuel pressure. Repeat this 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 fuel pump OFF, 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 up to the desired fuel pressure. Turning the adjustment screw clockwise (into the cap) will increase fuel pressure.
16. Once the desired fuel pressure is achieved, tighten the regulator adjustment jam nut.
17. If you do not want to keep the fuel pressure gauge on the vehicle, relieve the fuel system pressure as instructed in the appropriate vehicle service manual. Remove the fuel pressure gauge and reinstall the 1/8 NPT pipe plug into the regulator gauge port, using thread sealant.
- 18. 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)**

Contact US

RGA NUMBER REQUIRED FOR ALL RETURNS TO AEROMOTIVE.

To obtain an RGA number, please call (913) 647-7300 and ask for the Returns and Repairs department.

- **Shipping Address**

Aeromotive Inc.
7805 Barton St.
Lenexa, KS 66214

- **Sales & Returns**

Aeromotive Inc.
11414 W 79th Street.
Lenexa, KS 66214

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The Aeromotive Tech Lines are open Monday through Friday from 9:30AM to 5:00PM Central Standard Time.