

INSTALLATION MANUAL

FPR-1001

ACCESSORY:

Fuel Pressure Regulator

Gas/Diesel



FASS[®]
Diesel Fuel Systems
ENGINEERED EXCELLENCE

INSTALLATION MANUAL

Follow these steps to ensure a simple installation of your new FASS ACCESSORY

1. *This is a specialized regulator that is designed for a specific function with a fuel system. Improper use can cause undesirable results or even fuel system damage. Please consult your selling dealer if you are unsure about proper installation.*
2. It is highly recommended that you use a permanently installed fuel pressure gauge to monitor adjustments.
3. Be sure each port is clean and free of burrs.
4. Read the installation manual completely before attempting installation. The installation of this product indicates that the buyer has read and understands the limitations of the FASS manufacturers warranty agreement and accepts the responsibility of its terms and conditions.
5. Inventory the package components. Notify the place of purchase immediately of any parts missing or damaged.
6. The installation recommendations contained herein are guidelines. Use good judgment and take into consideration your vehicles' accessories.

CONTENTS

FASS's universal Fuel Pressure Regulator is an adjustable bypass fuel pressure regulator designed to give external control to maintain a more consistent fuel pressure on diesel and gas applications.



1/4"-20x1"



Lock Washer

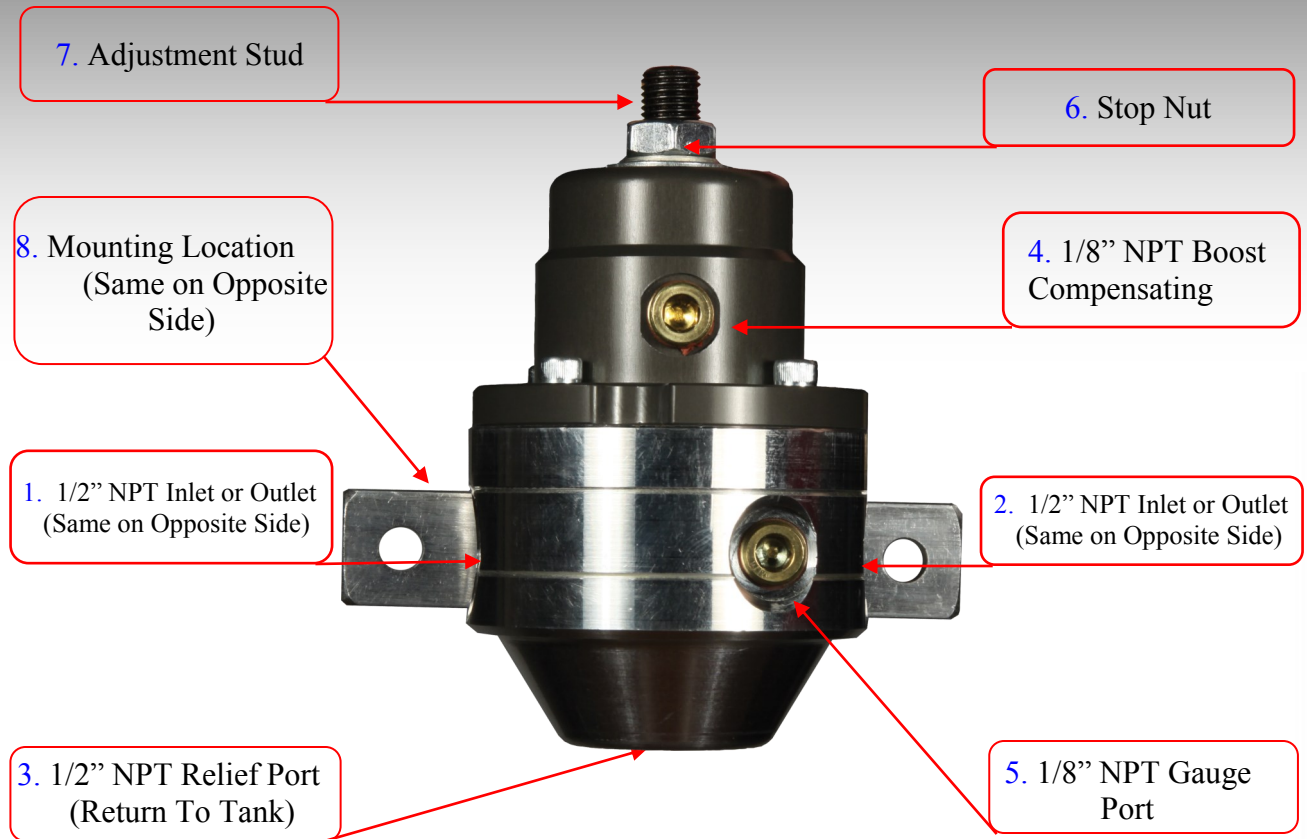


1/4" Nut

POST INSPECTION

1. Bolts and fasteners properly tightened?
2. Fuel lines secured and properly tightened?
3. Check for leaks.
4. Start the engine
5. Product registration filled out and ready to be mailed or faxed.

DIRECTIONS & DESCRIPTION



- 1 & 2 Inlet and outlet bidirectional ports, does not matter which port you use for inlet/outlet.
- 3 Return to be attached to a dedicated line returning back to your fuel tank. We do not recommend tapping into the stock engine/injector return line.
- 4 May run manifold pressure to this port to increase fuel pressure. It may be necessary to use a needle valve, or inline orifice to restrict engine boost to control the ratio that the fuel pressure rises.
- 5 Fuel Pressure Port.
- 6 Loosen/Tighten to allow adjustment or lock location.
- 7 Turn counter-clockwise to reduce pressure, clockwise to increase pressure. Retighten jam nut after pressure adjustment.

Note: Try not to bottom out the stud as this might cause damage to the regulator spring. If the pressure is not increasing as you make adjustments, you might have other components cutting in for fuel pressure control that need to be addressed.

- 8 Bolt to mounting location.

If you wish to make your FASS, FASS Fuel Pump (Only) or any other fuel pump externally adjustable, this will outline the procedure.

FASS Fuel System (with filters):

- Contact your dealer or FASS with your unit serial number and have them get you the lowest possible pressure spring for your unit.
- Install the spring under the return line fitting in the FASS.
- Locate the return line between the FASS and the filler neck.
- On the FPR regulator, you will need to plug off one of the 1/2" NPT ports with a 1/2" pipe plug.
- Install the regulator inline between the FASS and Tank return. Making sure that the line from the FASS is installed into the 1/2" NPT inlet and the return to the tank is attached to the fuel tank.
- Mount regulator and make your base line pressure adjustment. Make sure return fuel is flowing back to the tank. Note: The FASS **MUST** have return fuel flowing at all times back to the tank for proper operation.
- FASS systems are equipped with a high pressure relief built into them to protect the motor from high pressure amperage draw. If you adjust the pressure too high on the FPR, the FASS will cut in and take over control. Do not try to adjust beyond this as it will cut off all return flow back to the tank. Reduce pressure until return flow is noted between the FASS and Tank.
- We do not recommend this unit be used with the FASS in any other way except for the above outlined.

FASS HPFP/ FASS Fuel Pumps (Non-Adjustable):

Note: Other fuel pump brands – Research the pump you have will not release pressure before the desired pressure is obtained with the FPR.

- You will need to have your HPFP sent in to have the fuel pressure spring adjusted to adjust the highest the pump will handle, unless out of warranty. Contact your dealer for details or FASS. Have your serial number ready
- Once the pressure is increase on the HPFP, install the FPR regulator anywhere on the pressure line between the HPFP and stock filter head.
- Plumb the HPFP inlet into one of the 1/2" NPT fittings, and the use the other 1/2" NPT to plumb the outlet to the engine.
- Attach the FPR return back to the fuel tank using a dedicated line. Do not tap into the stock engine/injector return line.
- Mount regulator and make your base line pressure adjustments. Make sure you have return fuel flowing back to the tank.
- The HPFP is equipped with a high pressure relief built into them to protect the motor from high pressure amperage draw. If you adjust the pressure too high on the FPR, the HPFP will cut in and take over control. Do not try to adjust beyond this point as it might damage the FPR spring. Reduce pressure until return flow is not-ed between the FASS and Tank.