

# INSTALLATION MANUAL

## FPR-1001

### ACCESSORY:

Fuel Pressure Regulator  
Gas/Diesel



Dear Valued Customer,

**“Made in the USA”** is not just a slogan at FASS; it’s what we live by! FASS is not only assembled in the USA but 98%+ of the FASS product is manufactured in the USA, helping to employ Americans and strengthen America. At FASS, we scrutinize our suppliers and demand the highest quality American-made components. However, this does come at a price, which is one of the main reasons FASS products are more expensive than the competition. Remember price does not dictate quality but quality does dictate price! Here at FASS, we believe it’s worth the commitment and will continue this practice to support America! Our competition is doing exactly the opposite by using foreign-made components.

Building extremely “High-Quality” fuel products is our business. We concentrate all of our efforts in this arena. No one else is as specialized as FASS in what we do! This is one of the ingredients to insure you are running with the “Highest-Quality” fuel system in the world! We have implemented very rigorous testing procedures to provide the “Highest Quality” we have become known for. Not only is our product superior, but customer satisfaction is #1 at FASS. It is our goal to provide the best service possible. Our confidence is evident in the products we make as each product is backed by an industry leading warranty!

Our R & D department, in conjunction with our Dealer Support department, is continually searching for ways to improve quality, expand our product line, and provide superb support to our network of dealers so our customers’ needs and expectations will be exceeded.

To help insure you receive the proper system and customer support at the local level, FASS has a VIP and Authorized Dealer network representing FASS products. We recommend you go to [www.FASSride.com](http://www.FASSride.com), click “Find A Dealer”, put in their ZIP code, select the type of dealer, and see if the company you purchased from is listed. If they are not, put their phone number in the field below the ZIP code field to see if they are listed. Below these two fields is a list of “Terminated/Unauthorized” dealers. You may want to review this list. If the company is not listed or is on the “Terminated/Unauthorized” list, we suggest you return the product immediately to that dealer and call FASS. We’ll recommend you to the nearest dealer.

# 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.
7. If you have any questions or concerns that can not be addressed with your dealer, email or call FASS.
8. If any installation procedure is uncertain, contact FASS technical support.

Email [techsupport@FASSride.com](mailto:techsupport@FASSride.com) with the following information:

- Your Name, address and daytime phone number
- Model
- Serial Number
- Last 6 of vehicles' VIN
- Date of purchase
- Nature of Your Concern

Call customer service; [636-433-5410](tel:636-433-5410) with the following information:

- Model
- Serial Number
- Last 6 of vehicles' VIN
- Date of purchase

# 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.



FPR-1001



1/4"-20x1"



Lock Washer

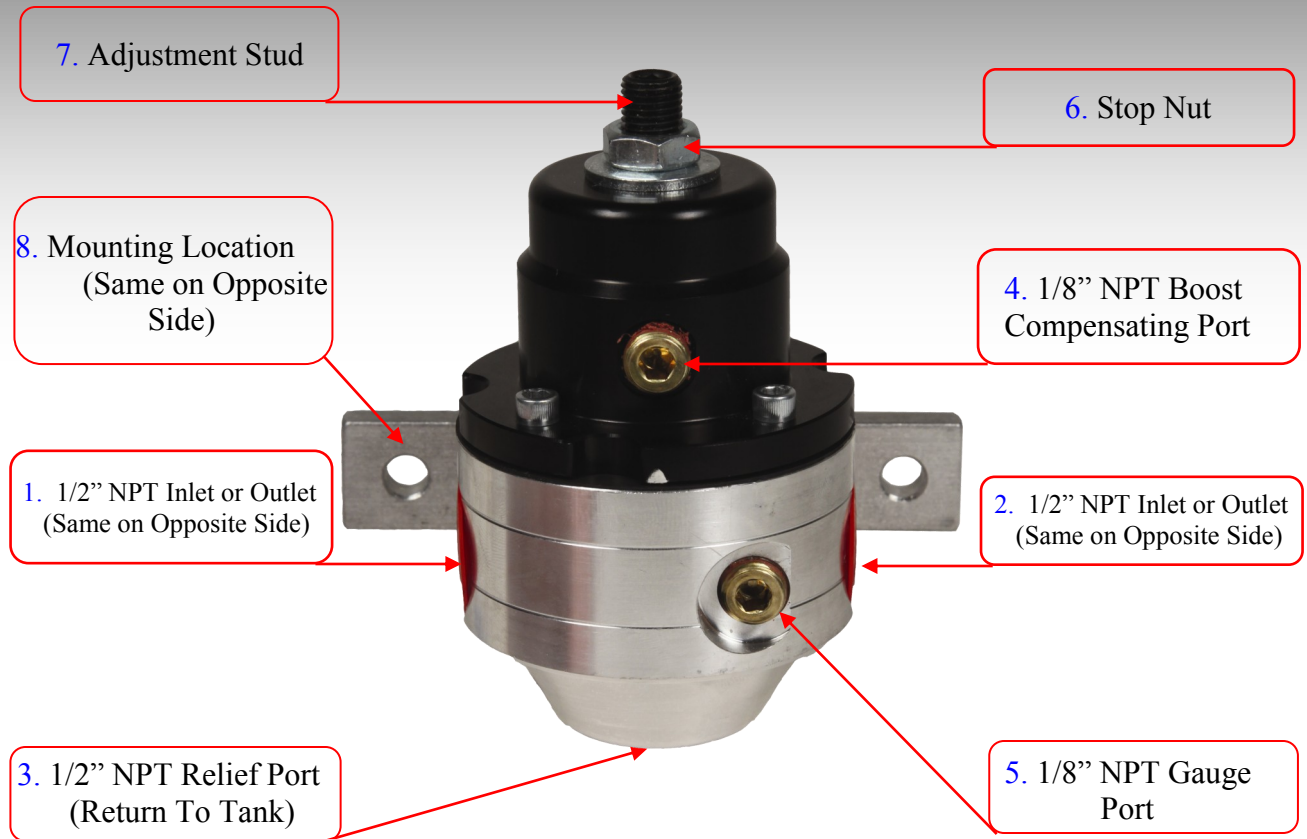


1/4" Nut

## 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 noted between the FASS and Tank.

# LIMITATION OF LIFETIME WARRANTY

**Disclaimer:** To help insure you receive the proper system and customer support at the local level, FASS has a VIP and Authorized Dealer network representing FASS products. This is one reason you must purchase through a dealer to comply with our warranty policies. If you do not, there is no warranty! We recommend you go to [www.FASSride.com](http://www.FASSride.com), click "Find a Dealer", put in their ZIP code, select the type of dealer, and see if the company you purchased from is listed. If they are not, put their phone number in the field below the ZIP code field to see if they are listed. Below these two fields is a list of "Terminated/Unauthorized" dealers. You may want to review this list. If the company is not listed or is on the "Terminated/Unauthorized" list, we suggest you return the product immediately to that dealer and call FASS. We'll recommend you to the nearest dealer.

Diesel Performance Products, Inc. (hereafter "SELLER") gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of SELLER'S product sold herewith. The SELLER shall be in no way responsible for the product's open use and service and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by SELLER and BUYER.

**When MANUFACTURER receives the "ORIGINAL" PRODUCT REGISTRATION form with a copy of the "BILL OF SALE/SALES RECEIPT" within 30 days of the sale, then the following applies!** The Warranty will then and only then be validated to that of which typically accompanies your unit for your specific application from the date of sale or for recommended service life and limited solely to the original purchaser and/or vehicle and parts contained within the product's kit. This warranty does not cover normal wear on consumable items such as but not limited to filters, fuel line, wire harness & etc. The warranty does not cover seized gears due to lack of filtration or fatty acid build up on the gears. Returned items will arrive prepaid to the place of purchase. Diesel Performance Products, Inc. will repair, without cost, any product found to be defective during the warranty period; parts only, or at its option, will replace such products in exchange for the product. Repair or replacements are warranted for the remainder of the original warranty period. All Warranty claims are subject to approval by Diesel Performance Products, Inc.

**A Return Material Authorization (RMA) number must be obtained before any product is to be returned to Diesel Performance Products, Inc. for warranty consideration, repair or product return.** Requests for product returns must be offset by an equal value order. Return parts must be completed and in resalable condition. No returns after 30 days.

The following information is required to obtain a RMA number before returning product:

- Your Name, Address, and Phone Number's
- Model and Serial Number (Not Motor Number) Example: Model HD Series, Serial: 00125966
- VIN Number of Vehicle
- Date of Purchase
- Nature of Problem

RMA and Product Serial Number must be on all paperwork and correspondence. Failure to obtain the required information or paperwork will result in \$25.00/item penalty and delay or denial of any warranty claim.

Under no circumstances shall the SELLER and/or MANUFACTURER be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

Under no circumstances shall the SELLER and/or MANUFACTURER be liable for any damage or expenses insured by reason of the use or sale of any such equipment. This warranty does not apply to products which Diesel Performance Products, Inc. has determined to have been misused or abused, improperly maintained by the user, or where the malfunction or defect can be attributed to the use of non-genuine Diesel Performance Products, Inc. parts.

**IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND LESS SHIPPING.**

**THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.**

Technical Support:

Diesel Performance Products, Inc.  
16240 State Hwy O Suite B  
Marthasville, MO 63357  
636-433-5410