



*Industrial Series*

# INSTALLATION MANUAL

**ALL 1/2" FUEL PORTS**

**APPLICATION:**

**IND-100G**

**OR**

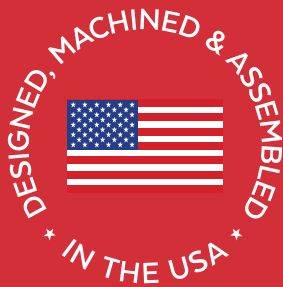
**IND-165G**

**(100GPH @ 16-18 psi)**

**OR**

**(165GPH @ 16-18 psi)**

**CLASS 1-8 / SEMI / UNIVERSAL**





[www.fassride.com](http://www.fassride.com)

(866) 769.3747

## **Thank you for choosing FASS, from Diesel Performance Products, Inc.**

FASS specializes in building extremely high-quality fuel products. We have earned an unsurpassed reputation for excellence in our industry by using only the highest-quality American-made components. In order to support our American workers and our American economy, more than 98+ percent of our products are manufactured completely in the United States.

Of course, that dedication to excellence comes at a price, but it is important to remember that price does not dictate quality-quality dictates price! We will never compromise by using cheaper, foreign-made components, like so many of our competitors do.

Customer satisfaction is our top priority and we strive always to provide outstanding customer service. Our Research and Development department, in conjunction with our Dealer Support Department, continually searches for ways to improve quality, expand our product line, and provide superb support. Our exclusive ViP Network ensures that customers receive the proper products and support at the local level. The extended four-year warranty is only available on products purchased from the network. There is no warranty on products not purchased outside the network.

## **IMPORTANT:**

*In order to qualify for the five-year extended warranty, your product registration form and proof of purchase from an authorized dealer must be submitted to FASS Fuel Systems within 30 days of purchase. Failure to comply will void the warranty. We have the right to deny any warranty believed to be false, altered or purchased through an unauthorized or terminated dealer. A current list of authorized dealers can be found on our website, [FASSRide.com](http://FASSRide.com).*

The complete conditions of the Limitation of Warranty can be found in the back of this manual, and [FASSRide.com](http://FASSRide.com).

**For more information,  
contact Technical Support:  
Diesel Performance Products, Inc.  
16234 State Hwy O.  
Marthasville, MO 63357  
636-433-5410**



**WARNING!**

**This product has NO WARRANTY unless:**

**1. It has been purchased from an **Authorized** or **ViP FASS Dealer**. If in doubt, check [www.FASSRide.com](http://www.FASSRide.com).**

**2. It is registered within thirty (30) days of purchase.**

**Other conditions may apply. Please see full warranty information.**

***NOTE:* Warranty is **void** if product was purchased below FASS website advertised pricing.**

**ATTENTION!**

**Before you begin installation**

**Register for your Warranty ONLINE at**

**<https://www.fassride.com/register-a-warranty/>**

**No online access, call our TECH Support at**

**1-866-769-3747**



**Read Before Starting Installation!!**

**We have provided the GPF-8080 fitting to tie into the engine return which will work on numerous applications, though it may be necessary to purchase additional fittings. The Industrial Series System has a low volume return and does not need it's own return line run directly to the fuel tank. See the below picture of the FASS return tied into the engine return.**



# FOLLOW THESE STEPS TO ENSURE A SIMPLE, CORRECT INSTALLATION OF YOUR NEW TITANIUM FUEL SYSTEM

## ATTENTION:

**Be sure to identify the proper FASS System and fuel line configuration. For help, our product finder can be found at [www.FASSride.com](http://www.FASSride.com). Follow the instructions to see fuel line detail.**

- 1** Be sure the serial number on this installation manual matches that on the outside of the box.
- 2** Pay close attention to ALL WARNINGS
- 3** Read all instructions before starting installation of this product.
- 4** Inventory the package components. Notify the place of purchase immediately of any parts missing or damaged.
- 5** The installation recommendations contained herein are guidelines. Use good judgment and take into consideration your vehicles' accessories.
- 6** For best results in accuracy and efficiency (due to training, communication, and our relationship with our dealer network), we recommend a VIP FASS dealer for the installation. They are prepared to install the FASS fuel pumps with the most efficiency. If a situation or problem arises during the installation, the dealer is prepared to handle it. Diesel Performance Products, Inc. is not responsible for any installation mistakes.
- 7** If you have any questions or concerns that cannot be addressed with your dealer, email or call FASS.

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**If any installation procedure is uncertain, contact FASS technical support.  
Call customer service at 636-433-5410,  
or send us an e-mail: [techsupport@FASSride.com](mailto:techsupport@FASSride.com)  
with the following information:**

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Your name, address and daytime phone number

Model (**IND-100G** or **IND-165G**)

Serial Number

Last 6 digits of vehicles' VIN

Date of purchase

Nature of Your Concern

Serial number .....





www.fassride.com  
(866) 769.3747

# INSTALLATION MANUAL

## **FASS IND-100G**

or

## **FASS IND-165G**

(Installation Videos are available at [www.fassride.com](http://www.fassride.com))

### **Recommended Application**

Class 8, Agricultural, Industrial, Recreational, Highway and Off-road Applications require fuel flow demands of 16-18 psi and less than 100 gph or 165 gph (For Applications, go to our Product Finder at [www.FASSride.com](http://www.FASSride.com))

**NOTE: This unit was not designed to be used on Unit Injected Mechanical Engines. Refer to the FASS kits with UIME in the model number. Installing the improper FASS Pump can cause severe engine damage.**

**NOTE: A fuel pressure gauge is highly recommended to identify fuel filter condition and prevent engine damage.**

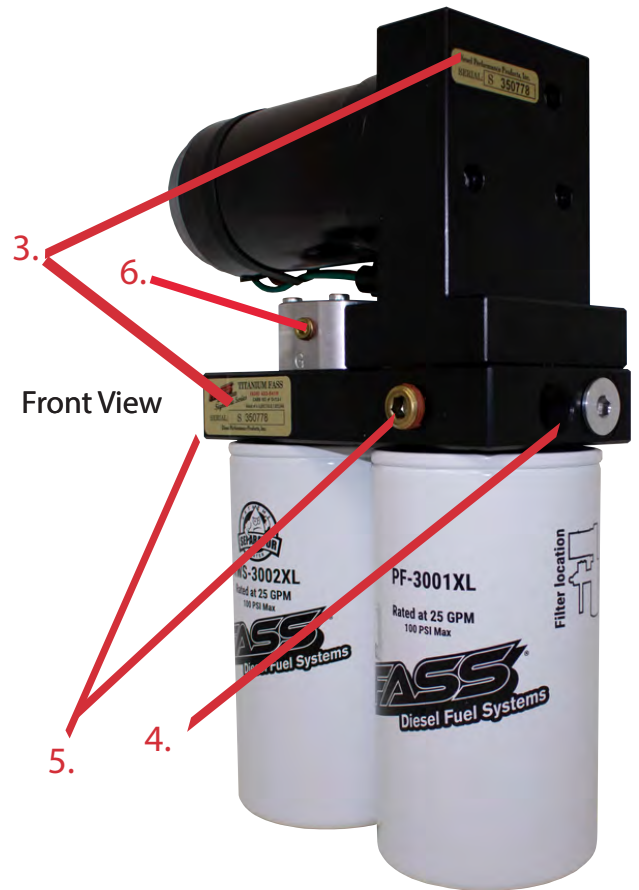
**NOTE: Do not remove any factory installed secondary fuel filter. Removal of a factory installed secondary fuel filter may void the engine manufacturer's warranty. This is the fuel filter between the engine's fuel pump and injectors.**

1. Keep debris from entering the internals of the system during installation. Getting debris in the water separator nipple can lock up the motor. If the motor does lock up from debris, call FASS for technical assistance.
2. Properly secure lines to prevent chaffing.

**NOTE: Use caution when drilling. Steer clear of any electrical wires, air lines, or other components that can be damaged.**

**100 GPH or 165 GPH**

**16-18 psi (Approximately)**



**PUMP GUIDE:**

- 1. "E" To Engine**
- 2. "R" Return to Tank**
- 3. Serial Number**
- 4. "T" Fuel Inlet**
- 5. Electric Heater Ports**
- 6. "G" Gauge Port**

**INSTALLATION GUIDE:**

- Step 1. Prepping the FASS**
- Step 2. Mounting the FASS**
- Step 3. Fuel Connections**
- Step 4. Wiring Installation**
- Step 5. Review Installation**

**100 GPH or 165 GPH**

**16-18 psi (Approximately)**

**Note: Going over 80 PSI WILL void warranty.**

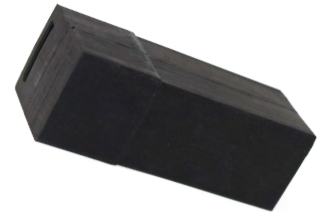
**NOTE: WARRANTY MAY BE VOID IF SILICONE BAND IS REMOVED FROM MOTOR!!**

**The silicone band is in place to retain motor wires, preventing damage to the electric motor.**

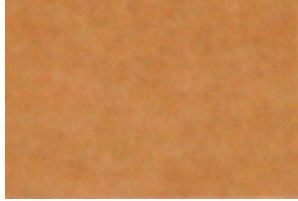


# CONTENTS

**NOTE:** Owner's Manual available for download on our website,  
[www.FASSride.com](http://www.FASSride.com)



**RELAY COVER**



**MP-A9088**



**BR-2001**



**RS-1001**



**WH-1008-3**



**TWO (2)  
OR-017**



**OR-030**

**NOTE: THESE SPARE BASE O-RINGS ARE INCLUDED WITH THE KIT IN THE EVENT OF A PINCHED O-RING DURING ASSEMBLY**

# MOUNTING PACKAGE CONTENTS



10-273



RS-2684



GPF-8080



DIELECTRIC GREASE



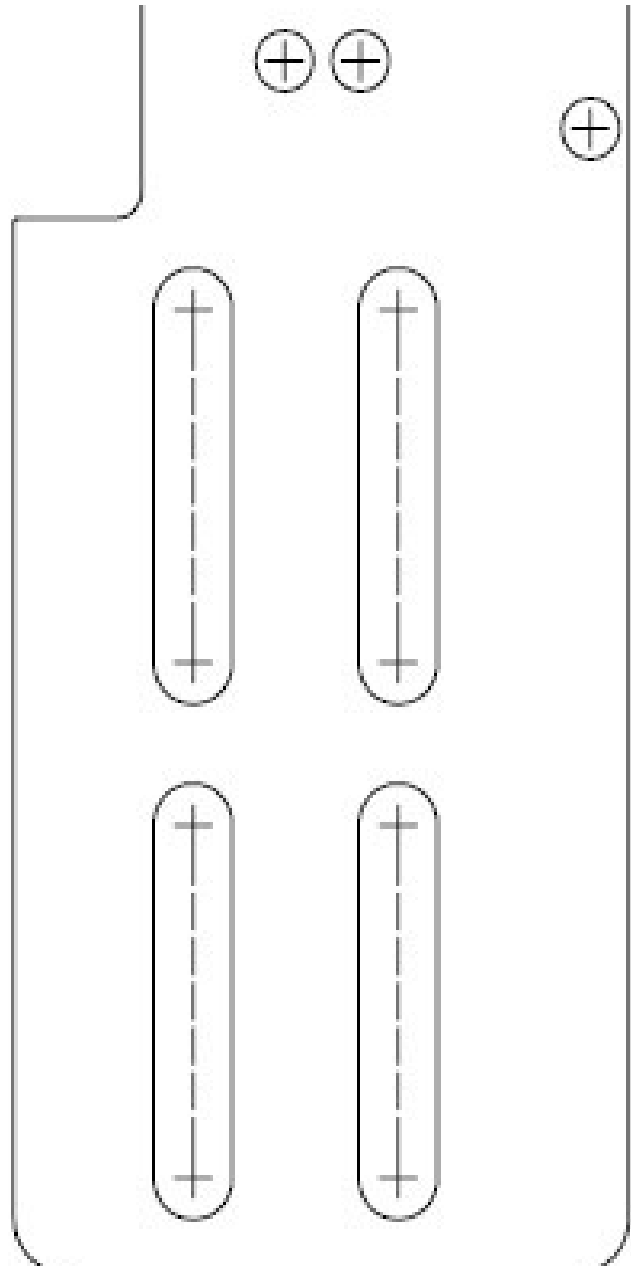
Ring Terminal



46044  
Add-A-Circuit

46251

Mounting template



Four (4) Hex Bolts  
3/8-16" x 1/2"



Four (4) Locking Nuts  
3/8"



Three (3) Hex bolts  
1/4-20 x 1 3/4"

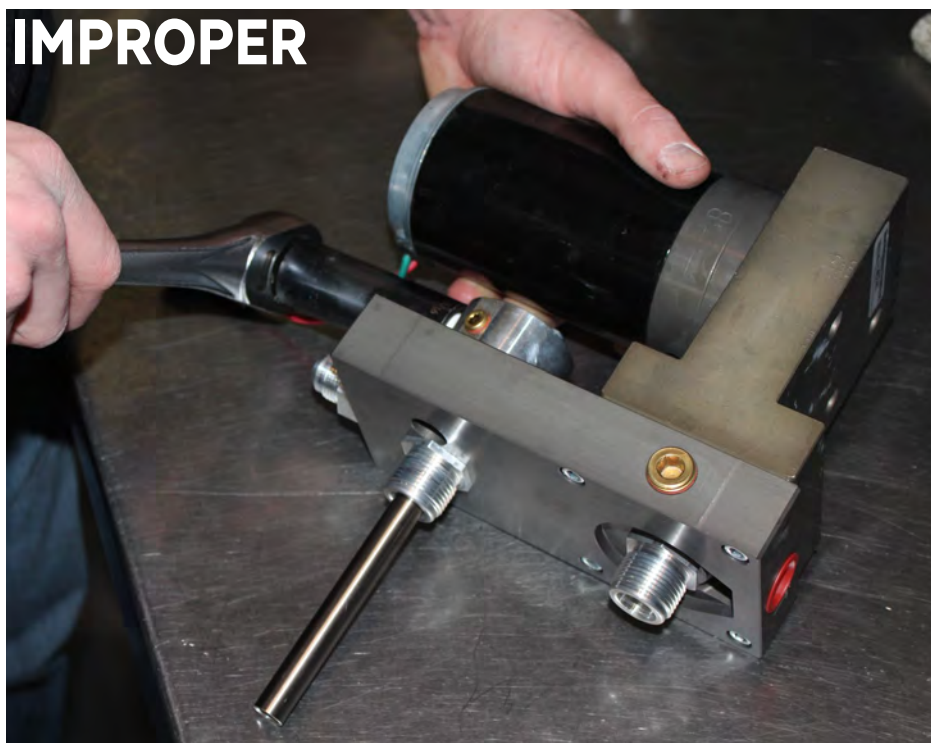


Three (3) WA-1001



**NOTE:**

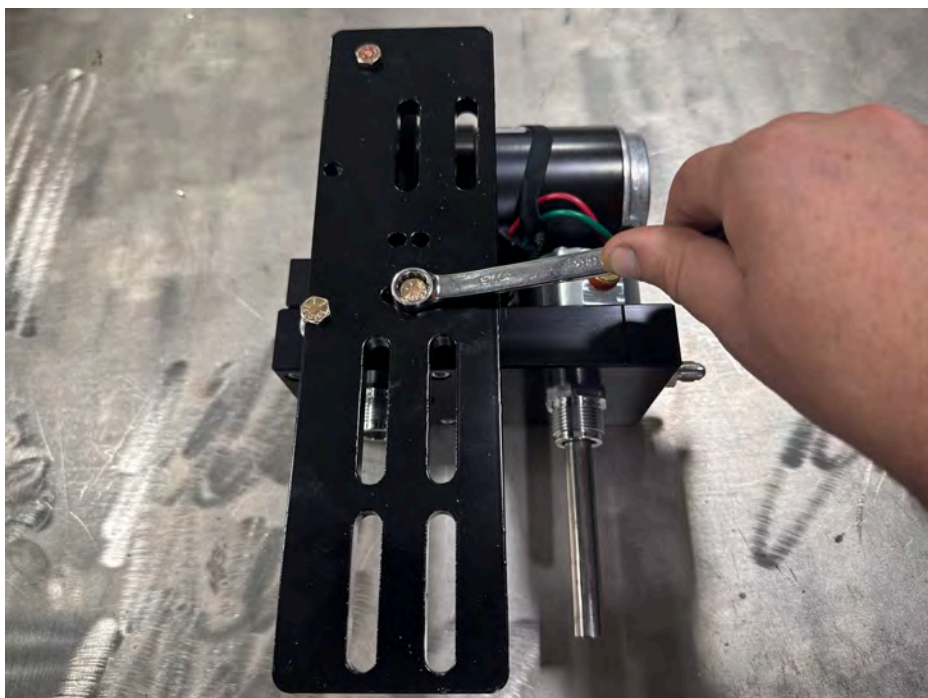
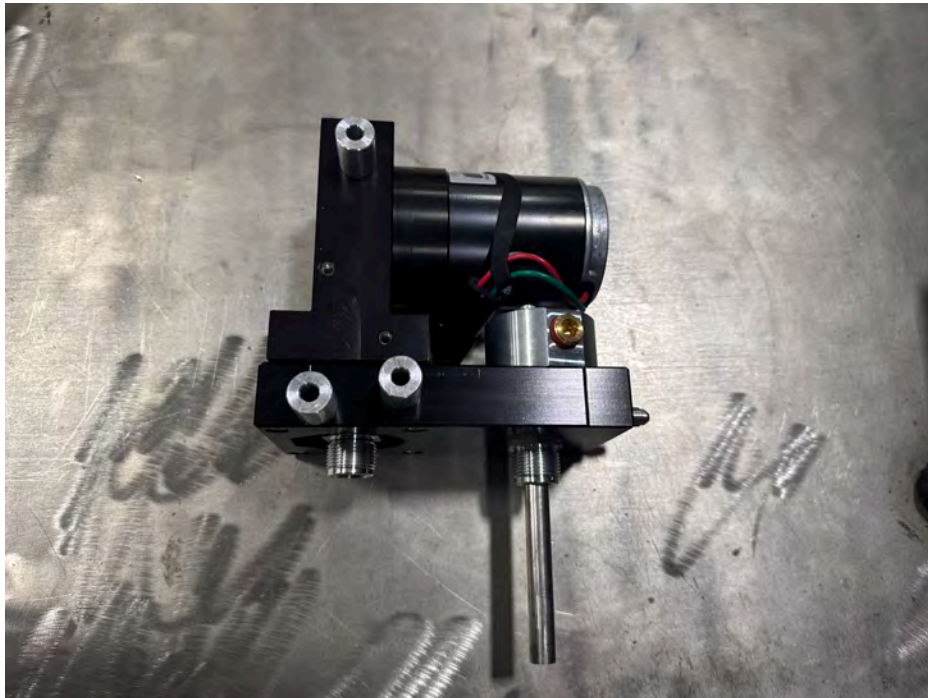
**ATTENTION:** While installing fittings into Titanium pump **DO NOT** Apply side pressure to draw tube of pump



## **STEP 1:** **PREPPING THE FASS SYSTEM**

**NOTE :** Before installing fittings make sure to inspect for burs or flare imperfections.

A. Install three WA-1001D Spacers over the three tapped holes as shown. Using the three provided 1/4-20 bolts, install BR-2001 onto the FASS System and tighten accordingly.



**STEP 2:**  
**MOUNTING THE FASS**

***NOTE: DO NOT MOUNT THE FASS SYSTEM TO THE ENGINE! EXCESSIVE VIBRATION FROM THE ENGINE CAN DAMAGE THE FASS AND WILL VOID THE WARRANTY!***

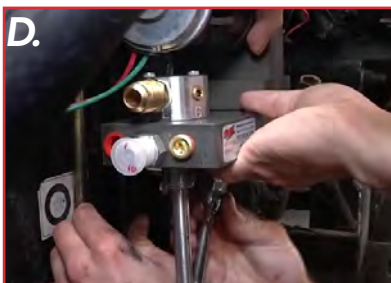


## STEP 2: MOUNTING THE FASS

### Option 1 - Installing an optional No Drill Semi Frame Bracket (Part #SFB-1001)

**NOTE:** Continue to next step if not using a No Drill Semi Frame Bracket

- A.** Find a clear space on the frame to use the No Drill Semi Frame Bracket. This may be the same area as the primary fuel filter discussed in the next step.
- B.** Remove primary fuel filter and/or water separator. If primary filter is part of the fuel pump or secondary filter base, ignore this step.
- C.** To install the no drill semi Frame Bracket. Place the angle bracket at the bottom or top of the frame. Drop bolts down the backside of the frame. Be sure to push bolts up against the frame while you are tightening down the bolts. Tighten the bolts in a crisscross pattern to properly secure the bracket to the frame. Properly torque bolts. (video at [www.fassride.com](http://www.fassride.com))
- D.** Assemble to the frame bracket using the (4) - 3/8" bolts and flange nuts. Make sure to use the rubber isolator when mounting the FASS. This will significantly reduce noise levels.
- E.** Properly torque all bolts.
- F.** Prior to installing the Fuel Filters make sure to locate the loose O-ring that comes with the water separator and slide it around the water separator nipple.
- G.** Next apply grease or motor oil to O-rings located on the filters.
- H.** Attach to system and tighten appropriately. Do not over tighten the fuel filters.



## STEP 2: MOUNTING THE FASS

### Option 2 - Installing the FASS Directly to the Frame

- A. Remove existing fuel filter and/or water separator.
- B. Hold FASS in place, check for clearance. Mark the hole positions on the frame. You will want to drill your top 2 holes first. Using proper drill bit. Drill your marked holes on the frame. Position the FASS system and line up the holes. Insert bolts, position the FASS in proper location and tighten top 2 bolts.
- C. Next drill the bottom 2 bolt holes. Insert bolts and properly torque all 4 bolts.
- D. Prior to installing the Fuel Filters make sure to locate the loose O-ring that comes with the water separator and slide it around the water separator nipple.
- E. Next apply grease or motor oil to O-rings located on the filters.
- F. Attach to system and tighten appropriately. Do not over tighten the fuel filters.



## **STEP 3:** **Fuel Connections**

**NOTE : Before installing fittings make sure to inspect for burs or flare imperfections.**

**(From Fuel tank to FASS & FASS to engine fuel pump)**

**A.** Attach the fuel supply line from the fuel tank to "T" Port of the FASS using a 10-273, or one of the fittings from the filter housing removed in Step Two (2.) If the fuel supply line connects directly to the engine, the primary fuel filter is not remote mounted. Skip to Step C.



**B.** Attach the fuel supply line from the "E" Port of the FASS System to the injection pump using 10-273, or one of the fittings from the filter housing removed in Step two (2).



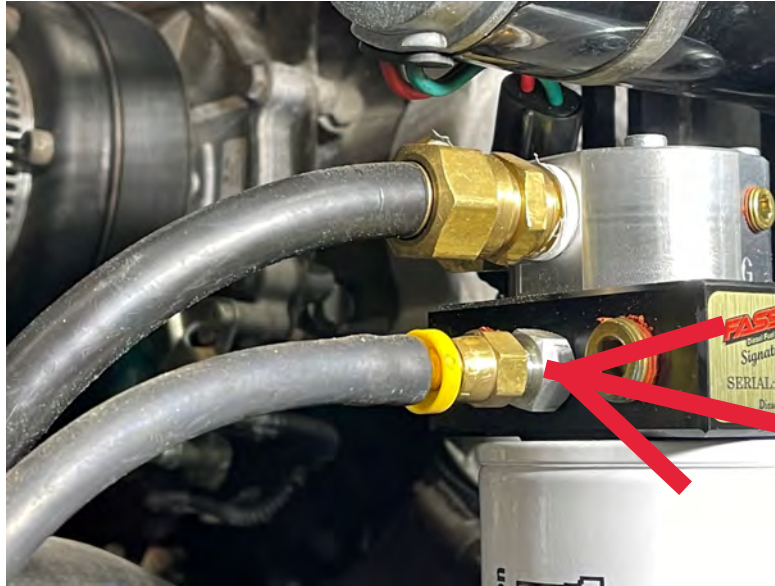
**C.** Attach the assembled fuel line to the FASS and engine.

**NOTE: Secure all fuel lines with cable ties. Cable ties are an economical way to prevent the possibility of problems occurring.**

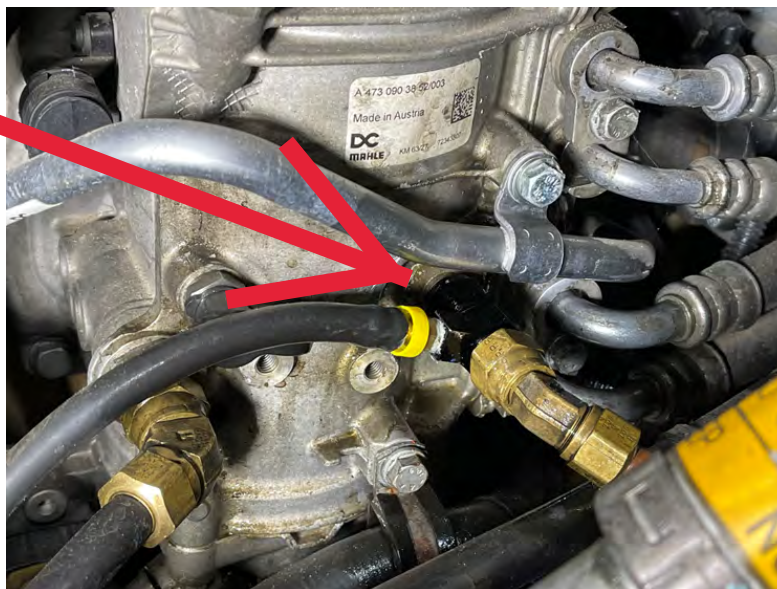
## **STEP 3:** **Fuel Connections**

**NOTE : Before installing fittings make sure to inspect for burs or flare imperfections.**

D. Using grease, push FL-1010 onto PL-1012. Install PL-1012 onto the "R" port of the FASS and tighten accordingly.



E. We have provided the GPF-8080 to tie into the engine return which will work on most applications, though it may be necessary to purchase additional fittings. The below example image is of a Detroit DD15. The Industrial Series has a low-volume return and does not need it's own return line plumbed directly into the fuel tank.



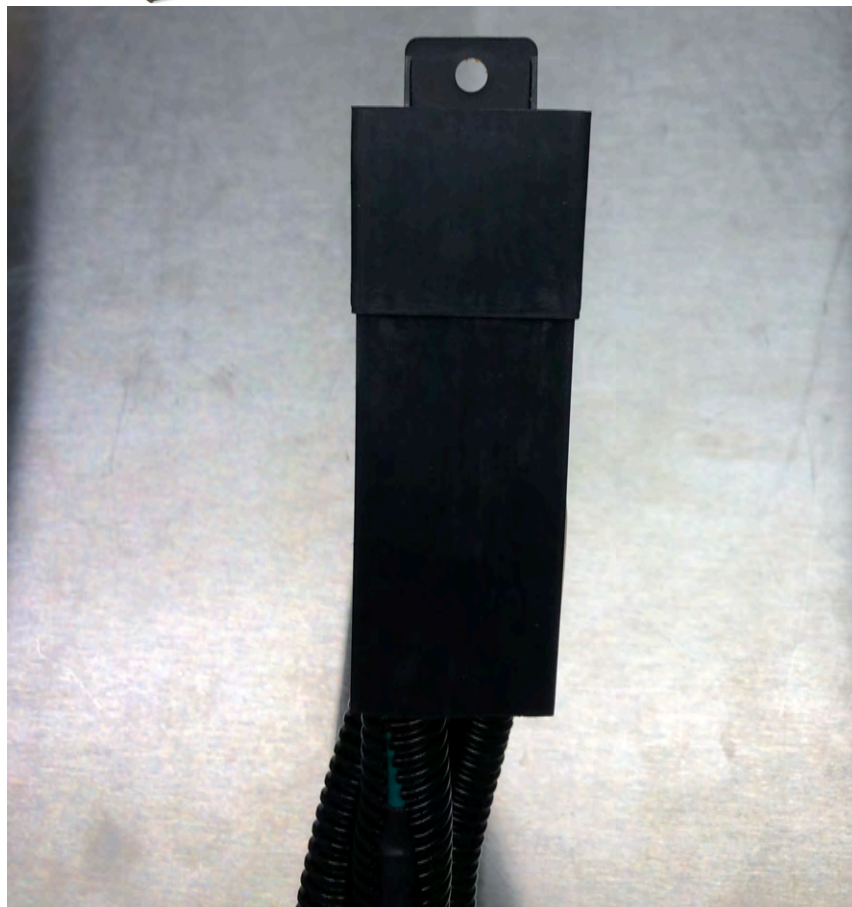
**STEP 4:**  
**INSTALL ELECTRICAL HARNESS**

**NOTE: USE SUPPLIED DIELECTRIC GREASE  
SPARINGLY ON ALL ELECTRICAL  
CONNECTIONS! BE SURE TO GREASE RELAY  
PIGTAIL!**



**STEP 4:**  
**INSTALL ELECTRICAL HARNESS**

***Install the Relay Cover onto the relay on the FASS harness.***



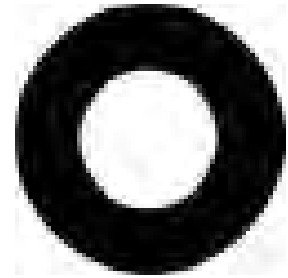
**STEP 4:**  
**INSTALL ELECTRICAL HARNESS**

**NOTE: BE SURE TO INSTALL THE SUPPLIED  
10 AMP FUSE INTO THE FASS WIRING  
HARNESS!!**



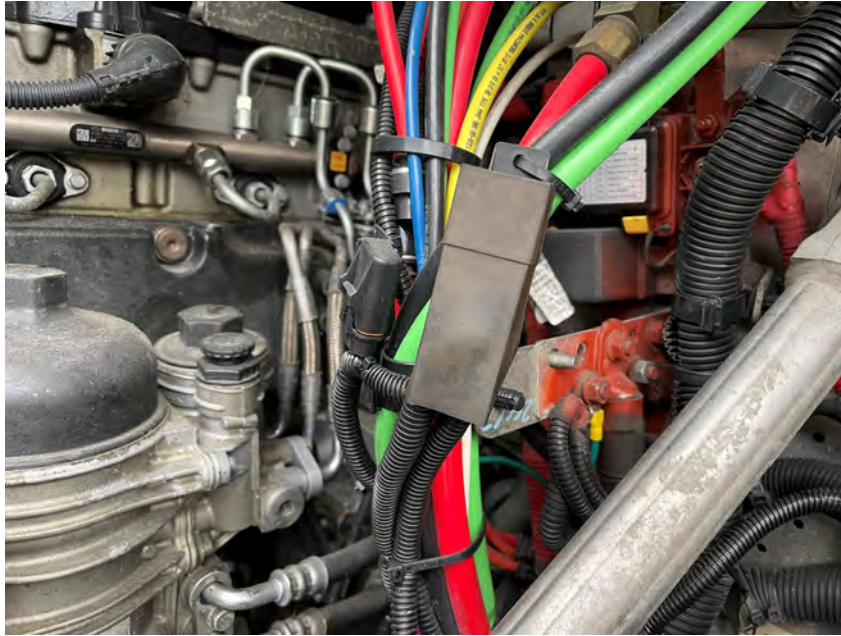
## **STEP 4:** **INSTALL ELECTRICAL HARNESS**

***NOTE: If the fuse panel is located inside of the cab, the single red wire of the FASS harness must be routed inside of the cab. A preexisting hole can be used, or drill a 7/8" hole and use RS-2684 to route the wire into the cab.***



## **STEP 4:** **INSTALL ELECTRICAL HARNESS**

- A. Secure the relay in an upright position away from any moving objects. Be sure that the battery terminal leads are able to reach the battery/power terminal posts and the single red wire is able to reach the fuse panel.

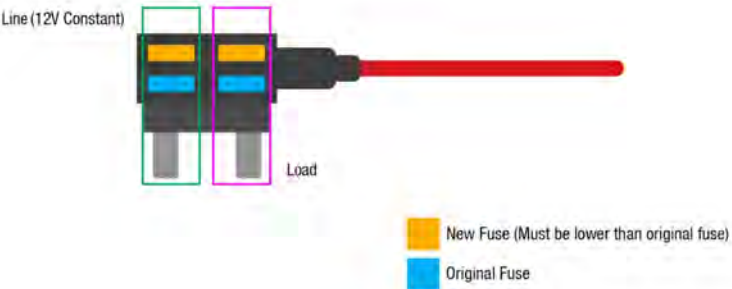


- B. Using a test light, locate a key-on positive fuse.

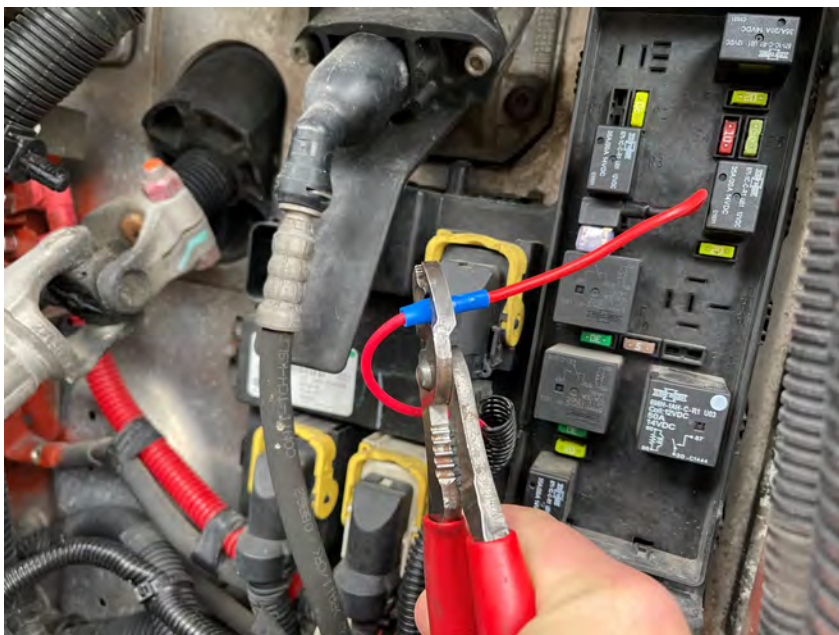


## **STEP 4:** **INSTALL ELECTRICAL HARNESS**

C. Remove the selected fuse from the fuse panel. Place the 3 amp fuse in the top slot of the Add-A-Circuit and the original fuse in the bottom slot. Place the Add-A-Circuit into the fuse panel.

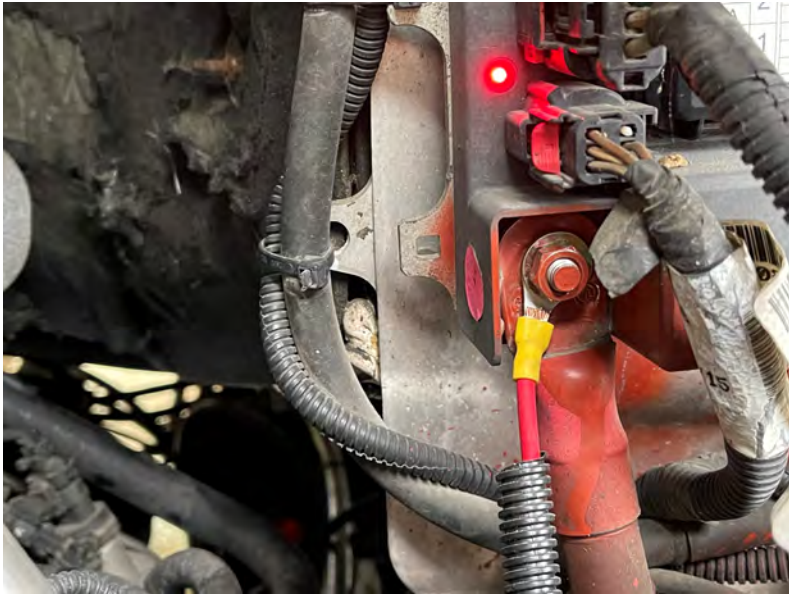


D. Route the single red wire from the wire harness to the fuse Add-A-Circuit and trim to length as necessary. Strip approximately 1/2" of insulation from the red wire, then place into the butt connector of the Add-A-Circuit. Using wire crimpers, firmly crimp the connection.



## **STEP 4:** **INSTALL ELECTRICAL HARNESS**

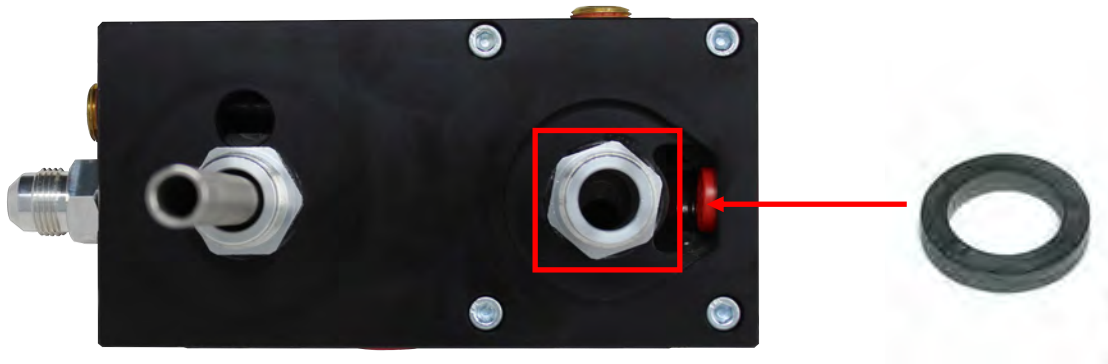
E. The battery positive red wire and battery negative green wire can connect directly to the battery terminals or to a heavy power and ground terminal in the engine compartment. Using wire crimpers, firmly crimp a ring terminal on the red and green wires of the FASS harness. Connect the red wire to a battery positive terminal and the green wire to a battery negative terminal.



F. Route the quick connect to the FASS motor and connect the harness. Neatly secure all fuel lines and wiring away from moving objects.



## **STEP 6:** **REVIEW INSTALLATION**



Note: O-Ring must be put back on suction side of pump. Failure to do so can result in priming issues, cavitation, or pressure losses.

1. Blow out any open lines/cover any open ports
2. Bolts and fasteners properly tightened?
3. Electrical harness and fuel lines secured and properly tightened? Reconnect the battery.
4. Has the system been primed?
  - a. Turn key to the ignition position, turning on the FASS pump for 15 sec..
  - b. Crank engine and allow to run for at least 1 minute.
5. Check for leaks.
6. Start the engine
7. Recheck all fluid and filter connections for leaks
8. This pump comes with a 1 Year Manufacturer's Warranty based on the date it has been manufactured. To receive your extended Five Year Warranty, you have 30 days from date of purchase to send the completed warranty information



[www.fassride.com](http://www.fassride.com)

(866) 769.3747

## LIMITATION OF FIVE-YEAR FASS WARRANTY

**DISCLAIMER:** To insure that you receive the proper system and customer support at the local level, FASS has established a VIP and Authorized Dealer network to represent FASS products. You must purchase through a network dealer to be eligible for our Five-year Extended Warranty. If you do not, there is no warranty! To make certain your dealer is part of the network, go to [www.FASSride.com](http://www.FASSride.com), click "Find a Dealer," enter the dealer's ZIP code, and select the type of dealer. If the company is part of the network, it will be listed. If it is not, enter their phone number in the field below the ZIP code field to see if they are listed that way. If it still is not listed, check the list of "Terminated Dealers." If the dealer is not listed, or is on the "Terminated..." list, return the product immediately to that dealer and call FASS. We will recommend the nearest authorized dealer so you can be eligible for the Warranty.

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 with 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 and others. The warranty does not cover seized gears due to lack of filtration. Warranty is voided if used with other than diesel fuel. Returned items must 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, or 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. Returned parts must be complete and in resalable condition. No returns after 30 days.

The following information is required to obtain an RMA number before returning the product:  
Your Name, Address & 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 complete the proper paperwork will result in \$25.00 per /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 of 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 incurred 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.

The installation of this product indicates that the buyer has read and understands the Warranty agreement and accepts its terms and conditions. In the event that the buyer does not agree with the terms, the product—in new, unused condition—along with the dated receipt should be returned within thirty (30) days of the date of purchase for a full refund less shipping costs.

For more information, contact:  
Technical Support:

Diesel Performance Products, Inc. 16234  
State Hwy O  
Marthasville, MO 63357  
636-433-5410