

## LIMITED LIFETIME WARRANTY

**MOTOR NO:**

**SERIAL NO:**

**Provide your pump's serial #**



**MANUFACTURED DATE:**

### WARRANTY STIPULATIONS:

- Copy of sales receipt mailed with this form
- All warranty information, located on the front & back, filled out
- FASS products and/or paperwork must not be tampered with
- Warranties are non-transferable
- Warranty is only available if purchased through FASS ViP Dealer! There is "NO Warranty" on FASS Products purchased through unauthorized dealers.
- Warranty Registration must be received by FASS within 30 days of purchase.



### SEND CORRESPONDENCE TO:

FASS Fuel Systems  
 Attn: Warranty  
 16234 State Hwy O  
 Marthasville, MO. 63357  
 techsupport@fassride.com

### DPP INC. OFFICE USE ONLY :

Date Received: \_\_\_\_\_

Purchase Receipt:  Yes (Receipt Date: \_\_\_\_\_ )

No

**Dealer Purchased From :**

**Date:**

**New FASS Owner Name:**

**Company/Organization:**

**Phone:**

**Email:**

**Street:**

**City, State & Zip:**

**Vehicle Year/ Make/ Model:**

**Color:**

**Vin Number:**

**Quality Of Product**

Excellent

Good

Fair

Poor

**How did you hear about us?**

Dealer \_\_\_\_\_  Magazine \_\_\_\_\_

Show \_\_\_\_\_  Online \_\_\_\_\_  Friend

**Comments:**

# INSTALLATION MANUAL

## TITANIUM SERIES



**ALL 1/2" FUEL PORTS  
AND FUEL LINE!**

### APPLICATION:

T F16 95G (95GPH @ 8-10psi) T  
F16 165G (165GPH @ 8-10psi)

Powerstroke 6.4L  
**Standard Pickup Truck**  
2008-2010

**\*\*Note: Cab and Chassis  
may require modifications\*\***



**PICKUP**

**FASS**  
Diesel Fuel Systems

ENGINEERED EXCELLENCE

Revision Date: 10/24/2017

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. 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.

**VERY IMPORTANT:** Make sure to fill out your product registration form and return the original form to FASS Fuel Systems within 30 days of purchase accompanied with a copy of the purchase receipt. Complying with these guidelines will qualify you for the Extended Warranty!

See the Owner’s Manual online at [www.FASSride.com](http://www.FASSride.com) for full Limitation of Warranty. 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 receipt, 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 the Limitation of Warranty agreement and accepts its terms and conditions.**

# !WARNINGS!

- Read all instructions before starting installation of this product!
- Installing the improper FASS Pump can cause *severe* engine damage.

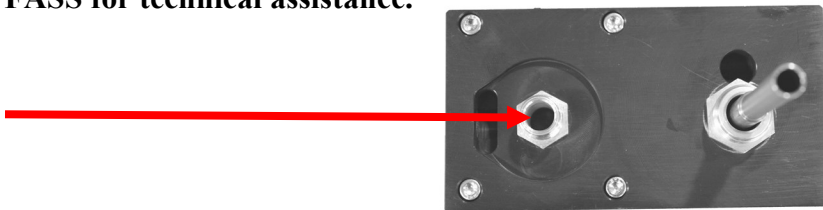
FASS	Recommended Application
<b>T F16 095G</b>	Powerstroke 2008-2010 with stock - moderate horsepower modifications
<b>T F16 165G</b>	Powerstroke 2008-2010 with moderate - extreme horsepower modifications

**Note:** Because of the higher fuel flow these systems have to offer, you may encounter problems with the stock fuel module. FASS can solve this with a Suction Tube Kit.

- Secure vehicle from **ROLLING!**
- Cab and Chassis may require modifications
- Consult vehicle's manufacturers' instructions concerning the electrical system before attempting any electrical connections.
- Be sure that the serial # on this installation manual matches that of the outside of the box.



- Flush and clean all brass fittings and fuel line from debris
- 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.



- Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.
- Properly secure lines to prevent chaffing.

**BEFORE STARTING THE INSTALLATION PROCESS LUBRICATE THE BED BOLT WITH WD-40 TO HELP WITH INSTALLATION**

# INSTALLATION MANUAL

## Follow these steps to ensure a simple installation of your new FASS TITANIUM FUEL SYSTEM

1. Inventory the package components completely. Notify the place of purchase immediately of any parts missing or damaged.
2. *Read the installation manual completely before attempting installation. Understand how the system operates and read installation recommendations before beginning installation.*
3. The installation recommendations contained herein are guidelines. Its important to understand your vehicles accessories and limitations. Use good judgment and take in to consideration your vehicles' accessories.
4. 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/problem arises during the installation, they are the most prepared for that situation/problem. We are not responsible for any installation mistakes.
5. Normally, technical issues can be resolved by your dealer's service department, as they can usually inspect the situation physically. If you have any questions or concerns email or call FASS.
6. 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 (**T F16 095G or T F16 165G**)
- Serial Number
- Last 6 of vehicles' VIN
- Date of purchase
- Nature of Your Concern

Serial # Found Here....



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

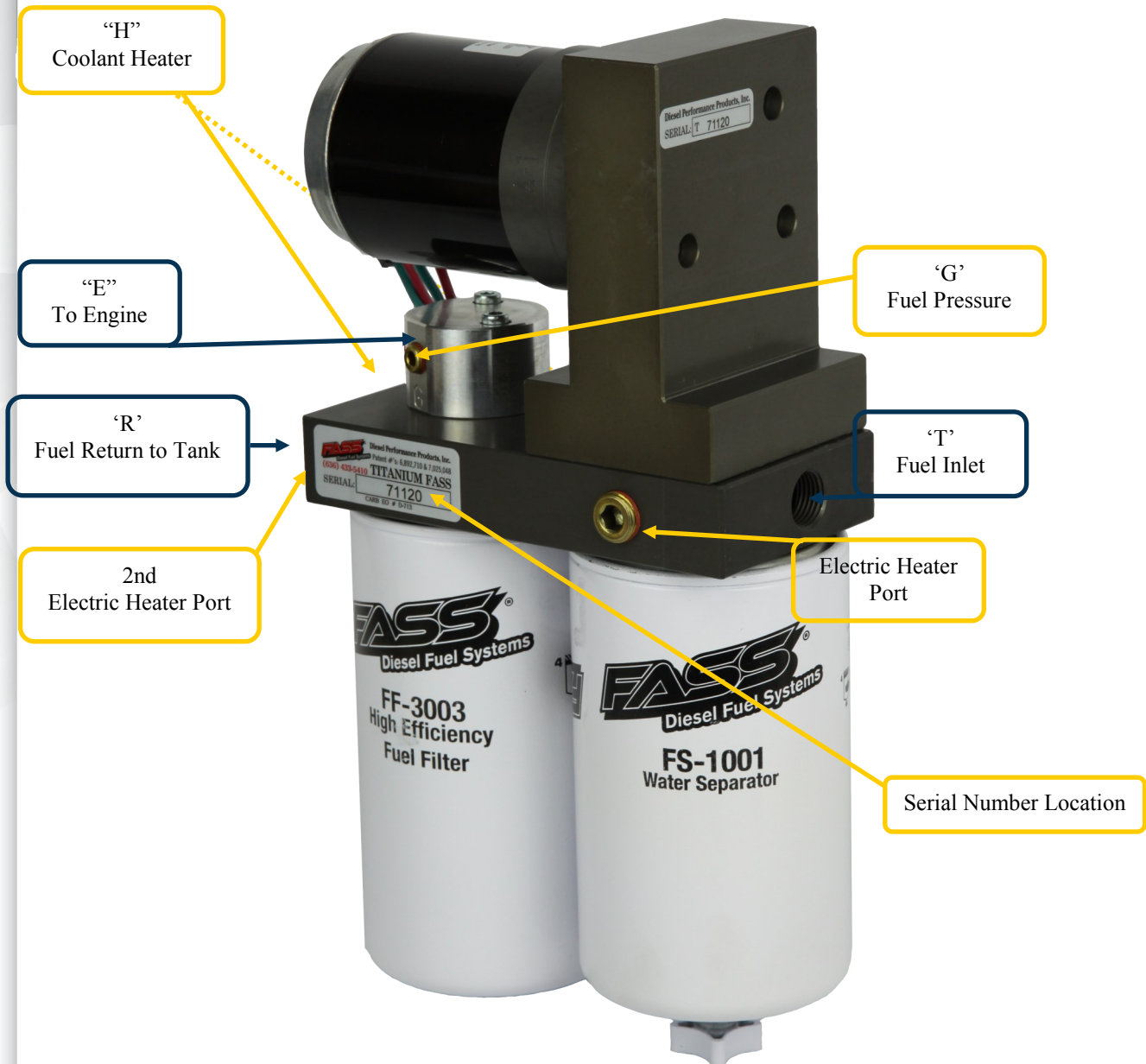
- Model (**T F16 095G or T F16 165G**)
- Serial Number
- Last 6 of vehicles' VIN
- Date of purchase

# TITANIUM SERIES

## 95 OR 165 GPH

### 8-10 PSI (APPROXIMATELY)

A fuel pressure gauge is highly recommended



## INSTALLATION

- Step 1: Install Electrical Harness
- Step 2: Prepare Suction and Return Lines
- Step 3: Mount Fuel System
- Step 4: Install Fuel Line
- Step 5: Check Installation

# CONTENTS

Owners Manual Available  
for Download at  
[www.FASSride.com](http://www.FASSride.com)



MP-9052



WH-1002



PFB-2001C



PBR-2002

PFB-2001



FL-1002 x17'



# MOUNTING PACKAGE CONTENTS



RM-1004



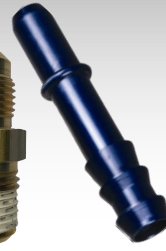
PL-1005



10-301



10-300



PLB-1212



PLB-1238



RS-2001C



QD-1002



HC-1004



HC-1001



Ring Terminal



1 Hex Bolt 1/2" -20 x 1 3/4"



1 1/2" Washers



4 Hex Bolt 3/8" -16x 1 1/2"



3 Hex Bolt 1/4"-20x1 3/4"



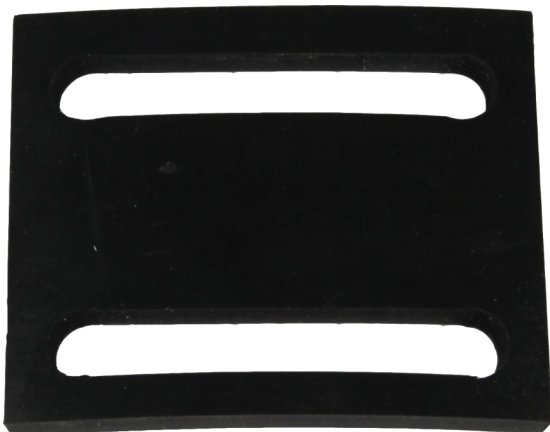
4 Locking Nut 3/8"



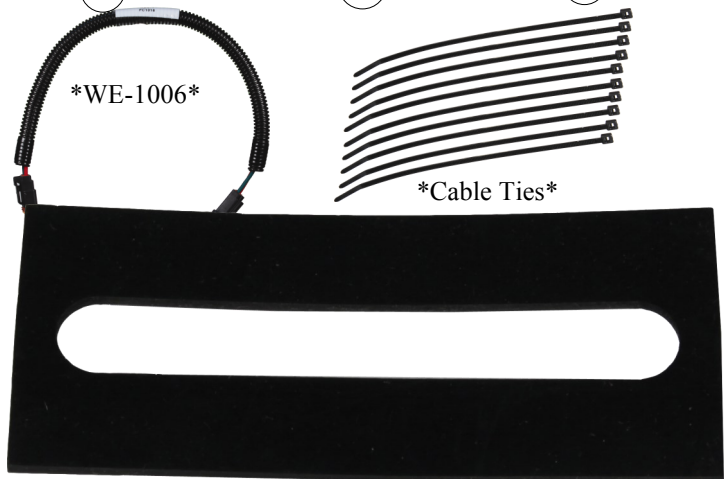
3 WA-1001D



4 3/8" Washers



RS-2002



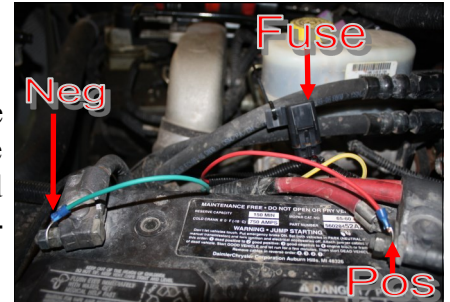
RS-2001

Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

## STEP 1: INSTALL ELECTRICAL HARNESS

The installation of the electrical harness is done first, allowing power to be applied to the pump for

- A. Using ring terminals, attach red wire of the WH-1002 to the positive battery terminal. Attach green wire to a clean ground, preferably the negative battery terminal. Secure fuse block in a location protected from outside elements. **The use of a corrosion preventative on electrical connections is recommended.**



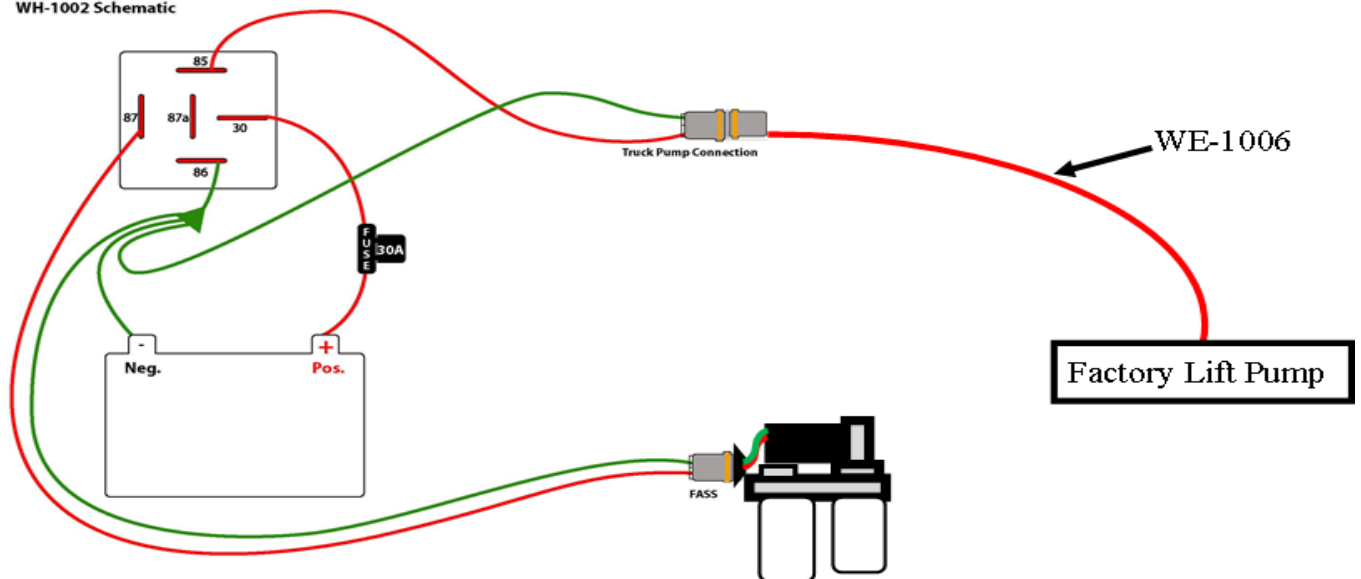
- B. Secure Relay in an upright position, as shown, to prevent moisture from entering. Di-electric grease may be applied to prevent corrosion.



- C. Connect WE-1006 to the female lead of the WH-1002 coming off the relay. Route the WH-1002 and WE-1006 along frame rail to the factory lift pump. **Completion of this step will be addressed in the mounting step.**



FASS  
Wiring Harness  
WH-1002 Schematic



Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

## **STEP 2: PREPARE SUCTION & RETURN LINES**

Some of the photo's are of a different application, procedures are the same.

**NOTE: Before installing fittings make sure to inspect for burs or flare imperfections. When cutting fuel line make sure to blow out line to keep debris from moving forward.**

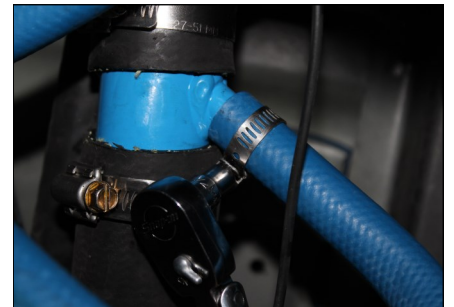
- A. Mark location on the filler tube that allows you to install RM-1004. Cut tube. Making sure that there is enough tube on each side of the cut to insert the RM-1004 and hose clamps.



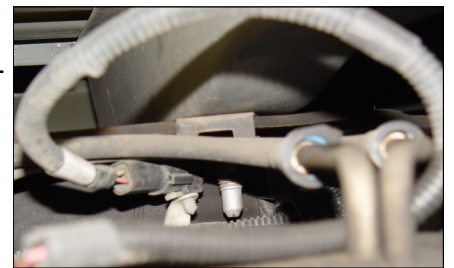
- B. Position RM-1004 with the junction pipe aiming to outside of bed. Connect rubber hose and RM-1004 using both HC-1004's but do not tighten.



- C. Using a HC-1001 connect FL-1002 to the junction of RM-1004.



- D. Disconnect factory suction line by pinching in on the blue tabs. Thoroughly clean this suction port .



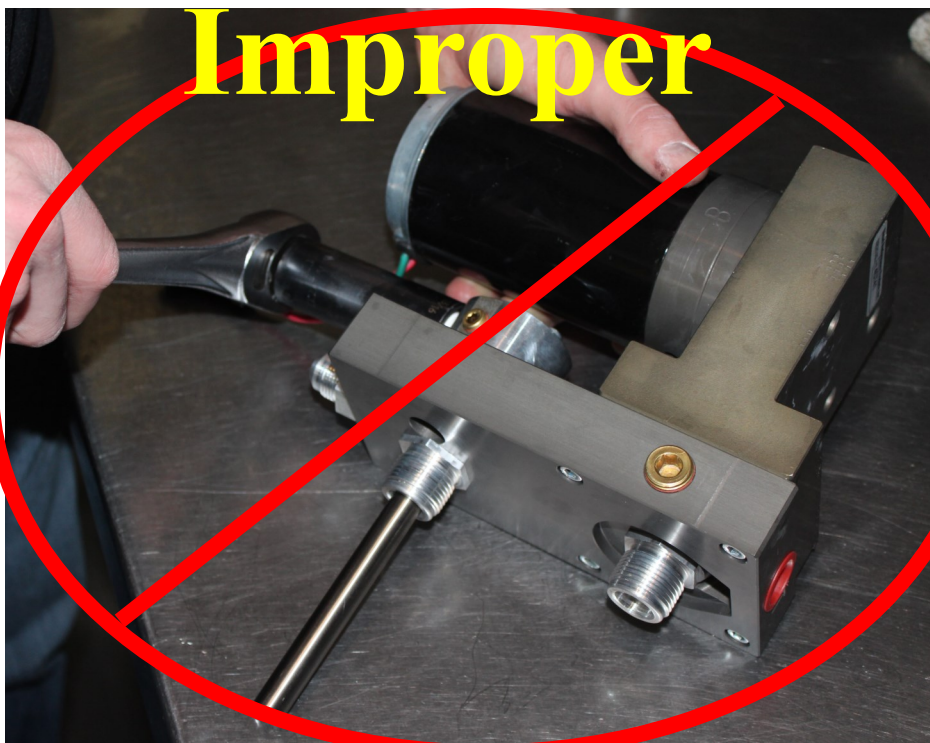
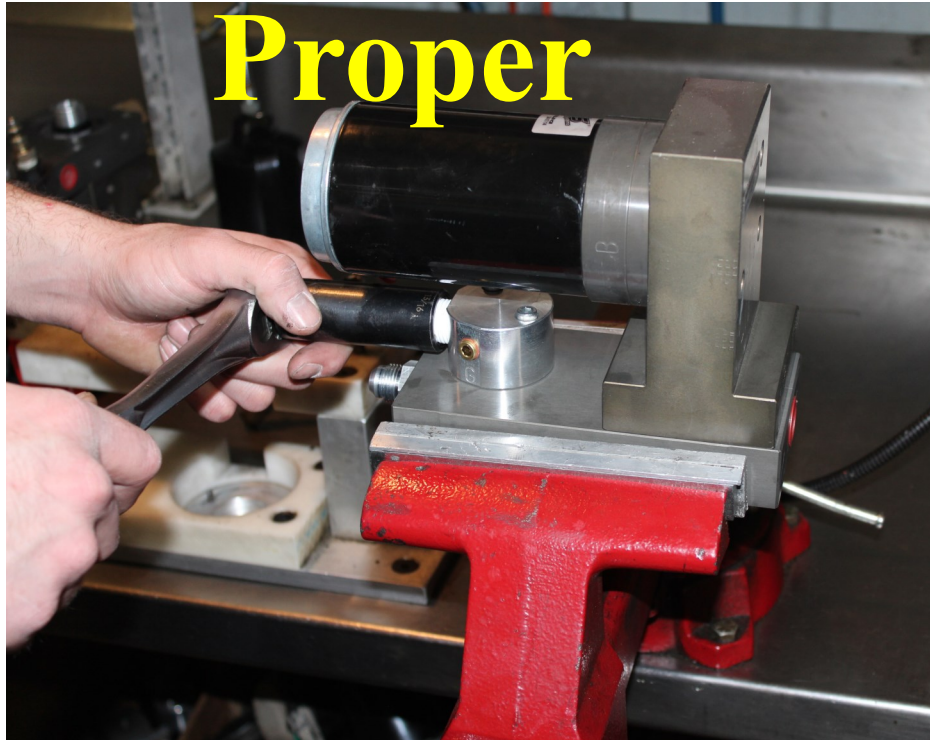
- E. Insert QD-1002 and clamp into opposite end of fuel line. Oil O-rings inside QD-1002 and slide onto factory suction port until you hear a click. Loop fuel line over the frame. Do not cut at this time.



Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

## **NOTE**

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



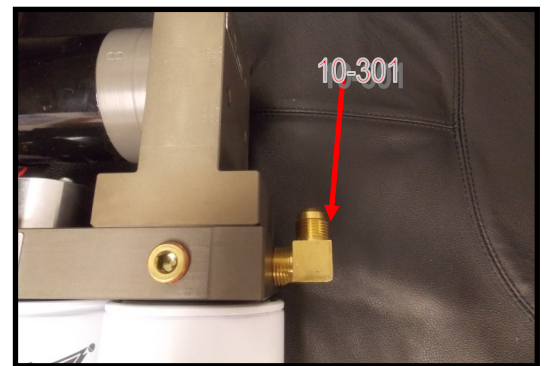
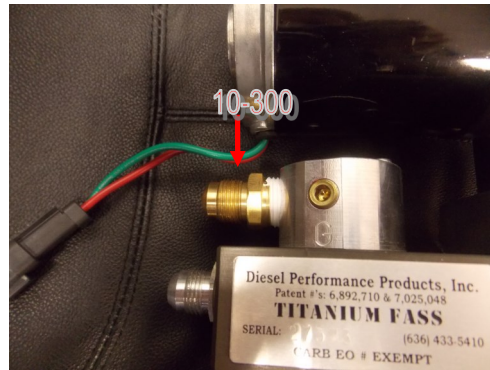
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## STEP 3: MOUNT FUEL SYSTEM

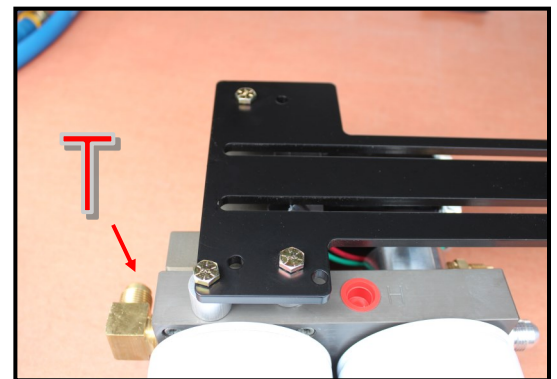
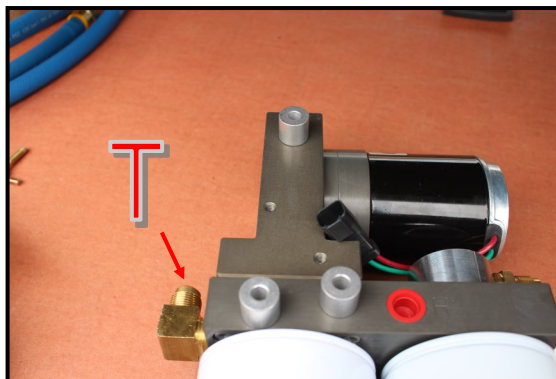
**NOTE: Before installing fittings make sure to inspect for burrs or flare imperfections.**

- A. Install 10-300 into the "E" port and 10-301 into the "T" port of the FASS, torque to 20 ft./lbs.

**\*\*\*FITTINGS ARE EQUIPPED WITH THREAD SEALANT, DO NOT USE THREAD TAPE\*\*\***



- B. For fitting purposes. Secure PBR-2001 to pump assembly lightly with (3) 1/4"-20x1 3/4 bolts and (3) WA-1001D. Assembly will be used in future steps for correct fitting of brackets. (Note: Bracket may be flipped to accommodate your application.)



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## STEP 3: MOUNT FUEL SYSTEM

- C. Assemble PFB-2002C and RS-2001C RS will make contact with bed channel when assembled correctly. Insert the PFB-2002C assembly in to bed channel align the nut with the opening on the channel.



- D. Secure PFB-2002 and RS-2001 with (1) hex bolt 1/2" -20 x 1 1/2" and (1) 1/2" washer to PFB-2002C



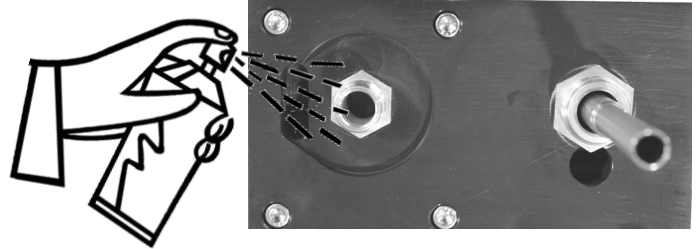
- E. Disconnect the factory power plug to the HFCM lift pump. Clean plug and install the WE-1006 connector. Plug female plug of the WH-1002 harness into FASS pump. **Be sure to finish routing wire harness along frame before mounting into position.**



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## STEP 3: MOUNT FUEL SYSTEM

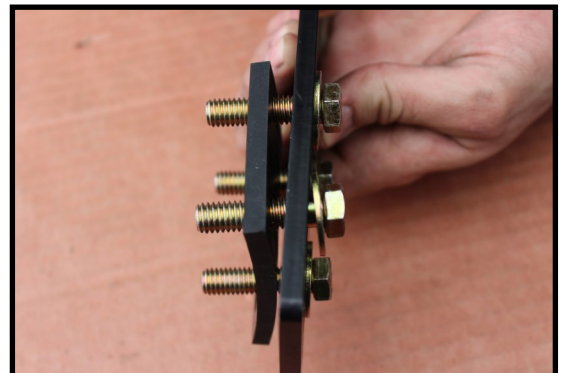
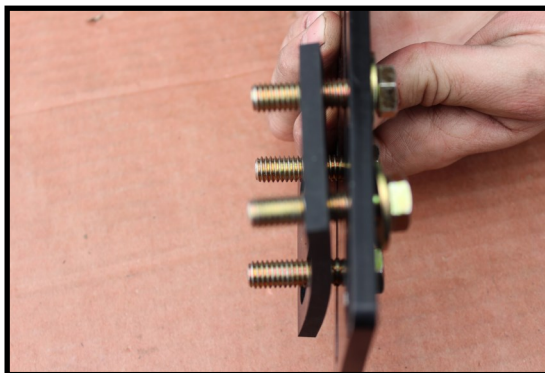
- F. Turn key to “on”. With pump operating (you may have to bump the starter), turn pump over, liberally spray WD-40 (or equivalent) into water separator nipple lubricating Gerotor.



- G. Position the PBR-2001 to the PFB-2002 pump assembly at the mounting location and check for fit. Once location is established mark location for mounting in next step.



- H. Assemble the FASS pump bracket PBR-2001 using the RS-2002 spacer between PFB-2002 and PBR-2001 bracket with 4-3/8 bolts, nuts, and washers. **Note: Torque bolts not flange nut.**



Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

## **STEP 3: MOUNT FUEL SYSTEM**

- I. Once secure use 3-1 3/4 bolts and 3-WA-1001D spacers to mount the pump to the bracket.



- J. Apply motor oil to gasket located on filters. Attach to system and hand tighten.





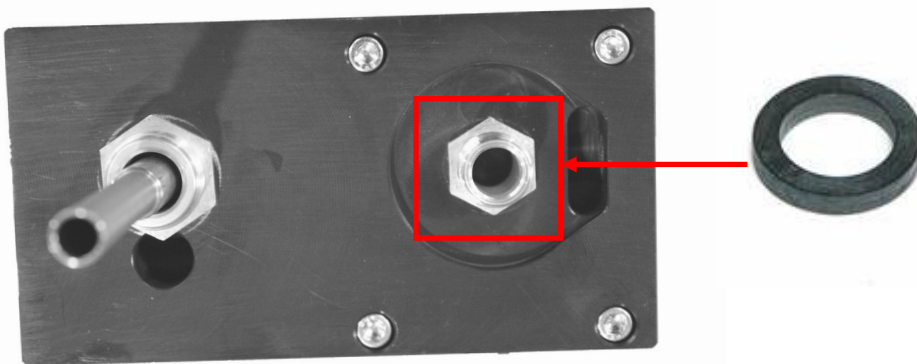
Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

### **STEP 3: MOUNT FUEL SYSTEM**

**Fuel Filter –Install FF-3003 on side of pump with draw tube in the middle of the filter nipple.**



**Water Separator Filter –Install FS-1001 on water separator nipple without the draw tube. Make sure to insert O-Ring provided on nipple.**



**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.**

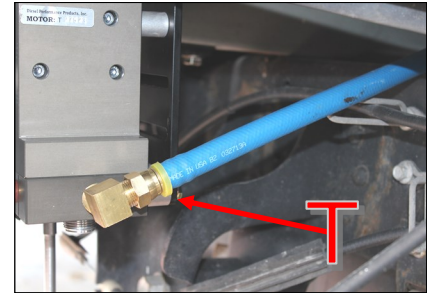
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## STEP 4: INSTALL FUEL LINE

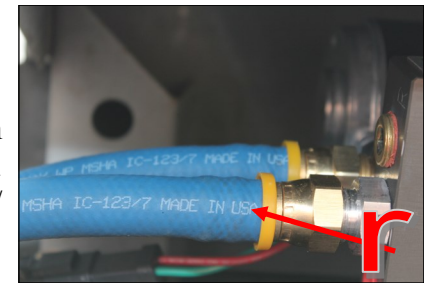
**Do Not use sealant on AN (male flare) fittings.**

- A. Route suction line from the factory suction. to port 'T' on the FASS system. Cut FL-1002 to needed length. Insert PL-1005 using oil. Connect to 10-301 in port 'T'. Torque to 18 ft./lbs.

**NOTE: Hose clamps are not recommended for push lock fittings. They will hold up to 300psi! Use oil on fittings and inside fuel line when installing Push-Lok fittings**



- B. Route fuel line from the 'R' port of the fuel manifold to the 'R' port on the FASS system with a gentle bend. Cut and insert PL-1005 using oil. Attach fitting to the 'R' port. Do not use any sealant. Torque to 18 ft./lbs.

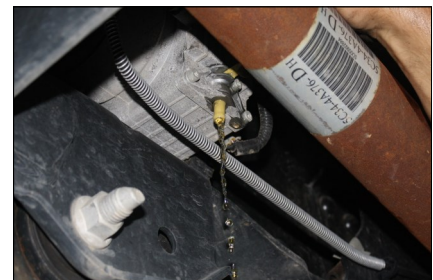


- C. Insert PL-1005 into remaining fuel line using oil. Attach fuel line to the 'E' port of the FASS system. Torque to 18 ft./lbs. Route this line to the engine side of the factory lift pump. Do not cut at this time.

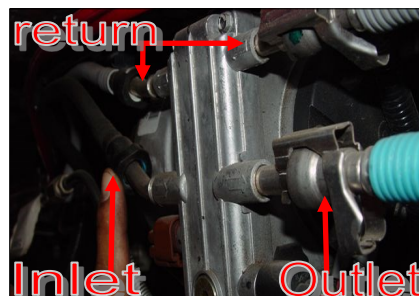


- D. Bypass factory fuel pump.

- E. Drain fuel from factory pump/filter using a 6mm hex drive, turning it counterclockwise.



- F. Using quick disconnect tools, remove the fuel lines from the front of the factory fuel pump. Remove the fuel lines attached to the rear of the factory fuel pump by pressing in on the tabs.



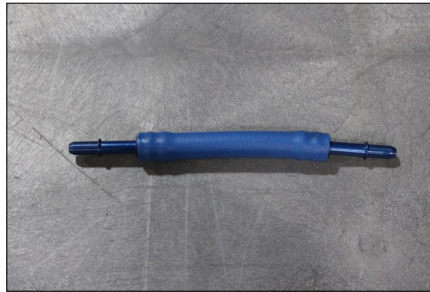
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## STEP 4: INSTALL FUEL LINE

- G. Route the fuel line from the 'E' port of the FASS to the factory lift pump's outlet quick disconnect and cut to length. Insert the PLB-1212 into FASS fuel line using oil. Slide the PLB-1212 into the factory quick disconnect until you hear a click. Lock down factory retainer clip.



- H. Measure between the two factory return fittings. Insert two PLB-1238 fittings into the provided FL-1002 fuel line using oil. Insert fuel line into factory quick disconnects until you hear a click. Lock down retainer clip. Secure fuel line.



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

## STEP 5: REVIEW INSTALLATION

- Blow out any open lines/cover any open ports
- Bolts and fasteners properly tightened?
- Electrical harness and fuel lines secured and properly tightened? Reconnect the battery.
- Has the system been primed?
  1. Turn key to the ignition position, turning on the FASS pump for 15 sec..
  2. Crank engine and allow to run for at least 1 minute.
- Check for leaks.
- Start the engine
- Recheck all fluid and filter connections for leaks
- This pump comes with a 1 Year Manufacturer's Warranty based on the date it has been manufactured. To receive your extended Lifetime Warranty, you have 30 days from date of purchase to send the completed warranty information along with a copy of the purchase receipt in to Diesel Performance Products, Inc. Att: Warranty 16234 Hwy O Marthasville, MO 63357

Before starting installation please review contents page to insure all necessary parts are included. Please call Diesel Performance Products for any missing or incorrect items. 636-433-5410

## **STEP 5: REVIEW INSTALLATION**

To assist with priming your FASS pump crack the FF-3003. Put power to the FASS pump to activate the pump. When the tone of the pump changes you can tighten up the fuel filter. If you need a video of the priming process go to [www.FASSride.com](http://www.FASSride.com).



**Note: The Red Plastic Plugs located in the “H” ports can stay in place fuel will not flow through these ports. Coolant can be plumbed into these ports to heat the fuel in the Winter months.**

## **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. Warranty is voided if used with other than diesel fuel. 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.  
16234 State Hwy O  
Marthasville, MO 63357  
636-433-5410

## Filter Cross References

# TITANIUM SERIES



(Currently in use)

- Fuel (FF-3003)
- Water (FS-1001)



<u>Fuel Filter (Micron Rating)</u>	<u>Water Separator (Micron Rating)</u>
<b>Thread Size (1-14)</b>	<b>Thread Size (1-14)</b>
Baldwin BF7633 (2M)	Baldwin BF 1258 (10M)
Carquest 86528 (2M)	Baldwin BF1214
CAT 1P2299 (6M)	Baldwin BF7546 (10M)
Donaldson P550625 (3M)	Donaldson P558000 (20M)
Donaldson P551025(4M)	Donaldson P551000 (10M)
Donaldson P551311 (3M)	Donaldson P551001(10M)
Donaldson P551313 (3M)	Fleetguard FS1282 (14M)
Donaldson P553203(3M)	Fleetguard FS-1000 (10M)
Donaldson P557440 (6M)	Fleetguard FS-1001 (10M)
Fleetguard FF5320(2M)	Fleetguard FS-1009(14M)
Fram P8334 (2M)	Fleetguard FS-1212(14M)
Hastings FF1079 (2M)	LuberFiner LFF8011
Wix 33352 (6M)	LuberFiner LFF8000
Wix 33528 (2M)	Motorcraft FD818 (14M)
Wix 33674 (2M)	Wix 33405(14M)
	Wix 33522 (10M)

# NOTES

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