

**Installation Manual  
FASS HPFP**

MODEL NO. FASS-HPFP-200-3008

**“HIGH PERFORMANCE FUEL PUMP”**



FROM: Diesel Performance Products, Inc.

SUBJECT: Welcome/Thank You

TO: Valued Customer

We at Diesel Performance Products, Inc. (DPP) would like to thank you for your confidence in purchasing one of the FASS Products. Building a quality product and providing excellent customer service is # 1 at DPP. Behind each fuel system/fuel pump are many years of design experience. We have implemented very rigorous testing procedures before bringing any item to the market along with very strict manufacturing procedures to provide a superb product. Our confidence is evident in the products we make as each product is backed by an industry leading warranty.

*We, Diesel Performance Products, promote “ALL” retail business through our dealer network to provide better customer service! We are confident that everyone involved is best serviced in this manner. We have given our dealer network proper knowledge and support to promote and service our line of products.*

Dealers receive appropriate troubleshooting guides to refer to. These have proven to be excellent references for those who choose to use them. We provide excellent assistance to our dealers so they in turn can assist their customers. DPP has decided to place this information on our website to accommodate all of our customers needs.

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 they can support their customers.

**Please make sure to fill out your product registration form and return the original form to Diesel Performance Products, Inc. within 30 days of purchase accompanied with a copy of the purchase receipt. Doing so will qualify you for the Limited Lifetime Warranty!**

Steps to customer satisfaction can be found on the next page.

## STEPS TO CUSTOMER SATISFACTION

We want you to be happy with your FASS Fuel System. Customer satisfaction, your satisfaction, is the all-important ingredient for success in our business, as it is in any other.

Normally, warranty problems can be resolved by your Dealer's sales or service departments. That's why you should always talk to your Dealer's Service department first. If you're not satisfied with the dealership's response at this level, Diesel Performance Products, Inc. (DPP) recommends that you follow these steps, in order:

**STEP 1:** Discuss the problem with the owner or General Manager of the dealership.

**STEP 2:** If your dealership is unable to resolve the problem, contact Diesel Performance Products, Inc. Customer Care Center in writing; the address is located on page 14 of this manual or fax it to 636-433-5413. Be prepared to provide the Customer Center with the following information:

- Your Name, address and daytime phone number
- Model and Serial Number (Not Model Number)
- Dealer, contact name and phone number
- Date of purchase
- Nature of Problem

Once you have followed the two steps described, a DPP representative will review your situation. DPP will then follow up by contacting the dealer for more information. Depending on the situation a representative from the selling dealer or a representative of DPP may elect to contact you.

Thank you for your business, from the men and women of Diesel Performance Products, Inc.

# **WARNING!!**

Installing the improper FASS Fuel Pump can cause severe engine damage.

This installation manual applies to the *FASS-HPFP-200-3008* contained in the same package. The serial number on the installation/owners manual package should match the serial number on the outside of the box. If it doesn't, call your dealer.

## **This FASS-HPFP-200-3008 (200gph) applies to this application:**

Recommendation: FASS-HPFP-200-3008 – Chevy Duramax Truck 2001 - 2006, with extreme horsepower modifications.

## **SAFETY GUIDELINES AND WARNINGS!**

- TIP!** Flush and clean all brass fittings and fuel line free from debris.
- WARNING!** **SECURE VEHICLE FROM ROLLING!**
- WARNING!** Use care not to drill into any electrical wires, air lines or other damageable components when drilling.
- WARNING!** Consult vehicle manufacturer's instructions concerning the electrical system before attempting any electrical connections.
- CAUTION:** Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.
- CAUTION:** Properly secure lines to prevent chaffing.

# INSTALLATION MANUAL

The installation of the FASS HIGH PERFORMANCE FUEL PUMP can be relatively simple when the following steps are followed.

1. Inventory the package components completely. Notify the place of purchase immediately of any parts missing or damaged.
2. We have invested many hours into the development of the installation manual to simplify the installation of the **FASS Fuel Pumps**. Please read the installation manual completely before attempting installation. Understand how the system operates and installation recommendations before beginning installation. Most of the questions that you will have will be answered in the manual. If you have a question please review the installation manual.
3. The installation recommendations contained herein are suggested installation guidelines only. Each installation can and may vary considerably because of the many options and accessories available to the truck market.



















Installation personnel should use good judgment and common sense when installing the FASS High Performance Fuel Pump.

If any installation procedure is uncertain, contact the place of purchase

Due to training, communication and our relationship we have with our authorized dealers we recommend an authorized Diesel Performance Products, Inc. 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 most prepared for that situation/problem. It may take more time for an unauthorized shop to address the situation/problem. We will not be responsible.

Please make sure to fill out your product registration form and return the original form to Diesel Performance Products, Inc. within 30 days of purchase accompanied with a copy of the purchase receipt. Doing so will qualify you for the Limited Lifetime Warranty!

Contents Include:

	Description					Quantity	Part #	
1.	Pump/Filtration Unit	--	--	--	--	1	FASS-HPFP	
2.	Fuel Pump Bracket	--	--	--	--	1	THB-1001 BHB-1001	
3.	Electrical Harness w/relay	--	--	--	--	1	WH-1002	
4.	1/2" Fuel Line	--	--	--	--	8'	FL-1002	
5.	1/4" - 20 x 1 3/4" bolt	--	--	--	--	4	--	
6.	1/4" - 20 x 3 1/4" bolt	--	--	--	--	2	--	
7.	1/4" - nut and lock washer	--	--	--	--	2 ea.	--	
8.	1/2" x 1/2" (Push Lock x MPT)	--	--	--	--	2	PL-1004	
9.	1/2" Line Hose Clamp	--	--	--	--	4	HC-1001	
10.	Fuse Tap	--	--	--	--	1	MBFT	
11.	Flag Terminal	--	--	--	--	1	187F1AG	
12.	Ring Terminal	--	--	--	--	2	NRB516-K	
13.	Fuel Filter	--	--	--	--	1	FF5289	
14.	3/8" x 1/2" (mpt x flared 90°)	--	--	--	--	1	10-299	
15.	Bulkhead (3/8 x 3/8)	--	--	--	--	1	BHF-1001	
16.	Grommet	--	--	--	--	1	RS2770	
17.	3/8 mpt Suction Tube (12 1/4 length)	--	--	--	--	1	ST-1001	
18.	Wire Extension	--	--	--	--	1	WE-1001	

## **BEGIN INSTALLATION**

**STEP 1:**     **Removing & Preparing Fuel Tank:**     Use the following photo's to complete this step.

**Hint:** This step should be performed with the fuel tank empty!



**Photo 1A**



**Photo 1B**



**Photo 1C**



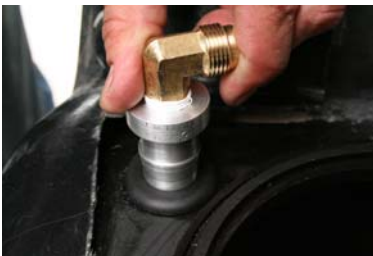
**Photo 1D**



**Photo 1E**



**Photo 1F**



**Photo 1H**



**Photo 1I**

1.     Secure vehicle from rolling.
2.     Remove the drive shaft to gain access to the top of the fuel tank.
3.     Remove the filler neck tube from the top of the fuel tank by loosening the clamp.
4.     Disconnect overflow tube from the fuel tank.
5.     Remove the 3 bolts holding the fuel cooler to the mounting bracket. The fuel cooler is located in front of the fuel tank. Photo 1A

**STEP 1:     Removing & Preparing Fuel Tank:** Continued

6.     Using a fuel line disconnect tool disconnect the factory suction & return located above the fuel cooler and connecting to the fuel cooler. Place the disconnect tool around the fuel tube and slide the tool under the fuel line connection to release the fuel line. Example: Photo 1A.
7.     Disconnect the factory electrical harness located on top of the fuel tank.
8.     With the fuel tank empty of fuel now remove it from the vehicle.
9.     As seen in photo 1B remove the lock ring on the top of the fuel tank.
10.    Once the lock ring is removed, remove pick up module from fuel tank. As seen in photo 1C.
11.    As seen in photo 1D place the lock ring back into place for measurement reasons. Lay the grommet into proper location and use a punch to mark the center. Drill a 1 ¼" hole, catch all debris, example cup
12.    Now drill a 1 ¼" hole using the mark made in step 11, remove all debris. As seen in photo 1E. Example cup.
13.    Using photo 1F assembly the pick up assembly. Use pipe tape on the pipe threads.
14.    Insert the grommet into the 1 ¼" hole. Place the pick up assembly into grommet, take measurements so the bottom of the suction tube is only 1/8" (no more than 2 quarters stacked) from the bottom of the fuel tank.
15.    Before cutting the suction tube triple check the measurements, it is much more efficient to cut the tube to long and then correct to proper length than it would be to cut to short.
16.    With proper length being obtained with the suction tube kit, debur and flush assembly. Place the assembly into the grommet as seen in photo 1E.
17.    Reinstall install pick up module.
18.    Remove factory suction line from the fuel tank using a quick disconnect tool and cap this open port.
19.    Insert the 1/2" x 1/2" (push lock x female flare) fitting into the fuel line. Remember to oil the fitting and fuel line.

**STEP 1:     Removing & Preparing Fuel Tank:** Continued

20.    As seen in photo 11 attach the fitting discussed in the previous step. Torque to proper specifications.
21.    Reinstall fuel tank. Remember to connect factory return fuel line, wire harness and torque tank hanger bolts to proper specifications.
22.    Reconnect filler neck to the fuel tank and torque the clamp to proper specifications.

## **BEGIN INSTALLATION**

**STEP 2:**     **Mounting FASS Fuel Pump:**     Use the following photo's to complete this step:



**Photo 2A**



**Photo 2B**

1. Drill 2 - 1/4" holes, as seen in photo 1A. Note: the mounting bracket may be mounted on either side of the bed rail.
2. Now install the 2 - 1/4"x 3 1/4" bolts, nuts and lock washers and torque proper torque specifications.

*Note: Before mounting the fuel pump assemble 3/8" x 1/2" (push lock x mpt) fittings into ports label with the letters "T" and "E" **using tread tape.** Torque to proper specifications.*

3. As seen in photo 2B using the bottom portion of the mounting bracket and the 4 - 1/4" - 20 x 1 3/4" bolts mount the pump so the port labeled "T" is facing the rear of the truck. **VERY IMPORTANT: REMEMBERING THE POSITION OF THE "T" PORT THERE IS A SMALL HOLE IN THE BASE DIRECTLY NEXT TO THE ELECTRIC MOTOR, THIS HOLE MUST AIM DIRECTLY TO THE GROUND!! IMPROPER INSTALLATION OF THE PUMP CAN CAUSE PREMATURE WEAR AND VOID MANUFACTURES WARRANTY.** Torque the 4 - 1/4 - 20x 1 3/4" bolts to 110 inch pounds.

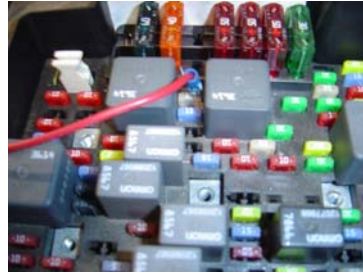
**STEP 3:**     **Installing Fuel Line:**     Use the following photo's to complete this step:



Photo 3C

1.     The suction port fuel line installed in section 1, loop fuel line towards the rear of the truck around to the suction port on the FASS HPFP. This port is labeled "T". Cut the fuel line. Before connecting fuel line to push lock fitting lubricate the brass fitting and the inside of the fuel line with oil. Push the fuel line all the way on. **NOTE: Hose clamps are not recommended for push lock fittings they will hold up to 300psi!**
2.     Connect fuel line to the brass fitting located in the port labeled "E". Oil and connect fuel line and fitting in the same method as performed in the previous step.
3.     Route this fuel line to the factory fuel line supplying the engine. This fuel line is locate behind the fuel cooler and was disconnect in step 5 of this section.
4.     Cut and connect fuel line using the ½" hose clamp. Torque to proper specification.
5.     Secure all fuel lines with wire ties. Please remember wire ties are     inexpensive and can prevent major problems!
6.     Reassemble fuel cooler.
7.     Carefully re-bend sheet metal back to original shape to protect fuel tank.
8.     Re-install driveshaft.

**STEP :**      **Installing Electrical Harness:** Use the following photo to complete this step:



1. Connect the male end of the wire harness to the female electrical connector on the FASS HPFP.
2. Route the wire harness along the frame rail into the engine compartment and connect the wire extension (part #WE-1001) to the female end of the WH-1002.
3. The red wire of the wire extension will travel thru the rubber grommet as seen in the above photo or into the fuse panel in the engine compartment.
4. Using the fuse tap & flag terminal connect the “Red” lead from the wire extension to a terminal on the circuit breaker board that is “hot” when the key is on. **Note: Connect the fuse tap to the hot side of the fuse.**
5. Using the ring terminals connect the green wire, of the WH-1002 wire harness, to the negative post and the red wire to the positive post of the battery.
6. Secure the relay in an upright position.
7. Secure the electrical wire with wire ties. Please remember wire ties are inexpensive and can prevent major problems!

**STEP 5: FINAL CHECK:**

1. Bolts and fasteners properly tightened?
2. Electrical Harness and Fuel Lines secured or properly tightened?
3. Prime the fuel system! (Refer to owner's manual)!
4. Check for leaks.
5. Start the engine!
6. Recheck all fluid connections and filters for leaks.

**NOTE:** The electric fuel pump runs continuously while the engine is running. The fuel pump on the FASS System will feel warm or hot to the touch.

**Please make sure to fill out your product registration form and return the original form to Diesel Performance Products, Inc. within 30 days of purchase accompanied with a copy of the purchase receipt. Doing so will qualify you for the Limited Lifetime Warranty!**

## LIMITED LIFETIME WARRANTY

Diesel Performance Products, Inc. (hereafter "MANUFACTURER") gives this Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of MANUFACTURER'S product sold herewith ("Product") all other warranties are disclaimed. The MANUFACTURER shall be in no way responsible for Product's 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 MANUFACTURER and BUYER.

When MANUFACTURER receives the "ORIGINAL" PRODUCT REGISTRATION form and a copy of the "BILL OF SALE/SALES RECEIPT" within 30 days of the sale, then the following applies!

If this condition is not met, Product is not covered by any warranty of any kind. The warranty is a Limited Lifetime Warranty from the date of sale for recommended service life and limited solely to the original purchaser and for the original vehicle in which it was purchased and installed on, and parts contained within the Product's kit. This Warranty does not cover normal wear on consumable items such as filters and the accessories surrounding the FASS System. All Warranty Claims must be made through place of purchase. Under this Warranty, 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.

Under no circumstances shall the MANUFACTURER be liable for any labor, shipping charges, travel time, charges for diagnosis of defects, removal, or reinstallation of the Product, or any other contingent expenses or consequential damages.

Under no circumstances shall the MANUFACTURER be liable for any damage or expenses incurred by reason of the use, inability to use or sale of the Product.

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: Contact the place of purchase; please provide the model number along with the serial number ready prior to calling.

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