

INSTALLATION MANUAL

DRP SERIES



APPLICATION:

DRP 02 (110GPH @ 16-18psi)

Dodge Replacement

1998.5-2002



PICKUP

FASS[®]
Fuel Systems

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, 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 back of Install manual for full Limitations 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
DRP 02	Dodge 1998.5-2002 with stock horsepower modifications
Note: Due to the increase of fuel flow you may encounter a problem with the stock fuel module. Adding a FASS suction tube kit will solve that issue.	

- Secure vehicle from **ROLLING!**
- Use caution when drilling. Steer clear of any electrical wires , air lines or other damageable components.
- 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 "T" port can lock up the motor. If the motor does lock up from debris call FASS for technical assistance.



- Be sure to utilize the inline fuel filter included in this kit, or the equivalent, to prevent a motor lock up.
- 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.

INSTALLATION MANUAL

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

1. Having a *retrofitted in-tank life pump* slightly changes your needs with the FASS DRP. You will also need a STK (Suction Tube Kit) from FASS to allow the fuel to be drawn to the new DRP.
2. Inventory the package components completely. Notify the place of purchase immediately of any parts missing or damaged.
3. ***Read the installation manual completely before attempting installation. Understand how the system operates and read installation recommendations before beginning installation.***
4. 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.
5. If any installation procedure is uncertain, contact FASS technical support.

Email techsupport@FASSride.com with the following information:

- Your Name, address and daytime phone number
- Model **(DRP 02)**
- 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 **(DRP 02)**
- Serial Number
- Last 6 of vehicles' VIN
- Date of purchase

DRP SERIES

110 GPH

16-18 PSI (APPROXIMATELY)

A fuel pressure gauge is highly recommended to identify fuel filter life and to prevent engine damage!



INSTALLATION

- Step 1: Remove Factory Lift Pump
- Step 2: Prepare Pump
- Step 3: Mount Pump
- Step 4: Review Installation

CONTENTS



33007

FL-1001



BW-4001



BF-4001



Hex Bolt 5/16-18x1/2



BHCS 8-32x.5



HC-1001

The FASS's DRP series is a complete replacement for the stock lift pump (1998.5 – 2002 Dodge)

Requires a FASS suction tube kit if truck has been retrofitted with an in tank fuel pump. Call for assistance.

What you will need:

- 3 Banjo Bolts (use OEM bolts)
- 17mm wrench for the removal of the banjo bolts
- 10mm wrench for the removal of the fuel line retainer and factory pump studs
- 1/8" Allen Wrench

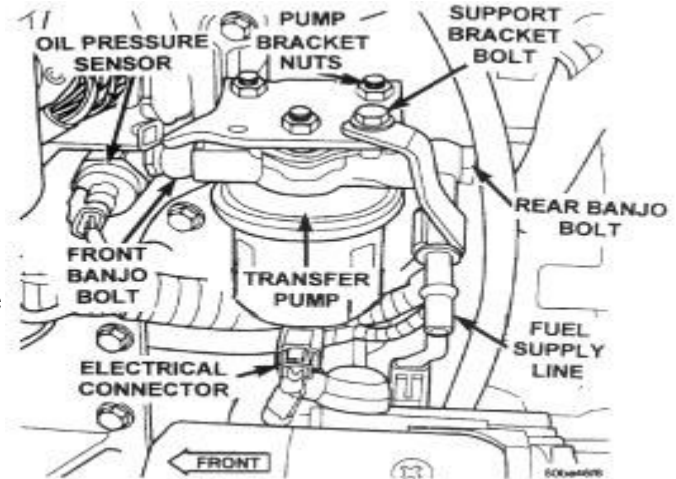


Figure 3

STEP 1: REMOVE FACTORY LIFT PUMP

- A. Disconnect battery before beginning installation. Disconnect the factory power supply from the factory lift pump.

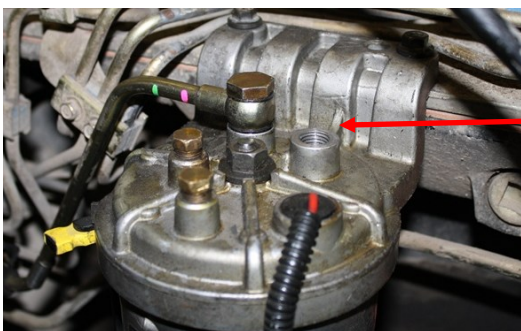
Note: Keep all factory banjo bolts for re-use during installation.



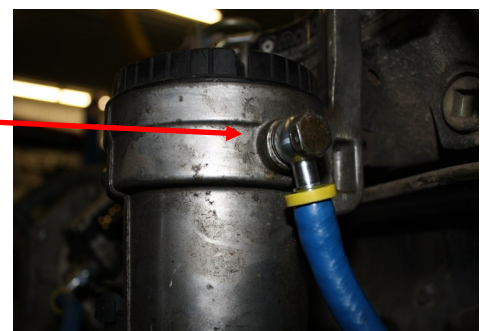
- B. Drain the fuel from the factory filter housing. Remove the Support Bracket Bolt. Remove the rear (inlet) banjo bolt, located on the back side of the stock fuel pump. Pull the bracket/fuel line assembly away and save for re-installation. **Do Not** allow the black Flex-Line to kink. Discard Support Bracket bolt.



- C. Remove the inlet banjo bolt to the factory filter canister from the top or the side, depending on model year..



Fuel Inlet



STEP 1: REMOVE FACTORY LIFT PUMP

- D. With the 10mm tool of your choice, remove the three nuts on the top of the bracket that holds the fuel pump in place. Lift the pump/fuel line assembly out as one unit.



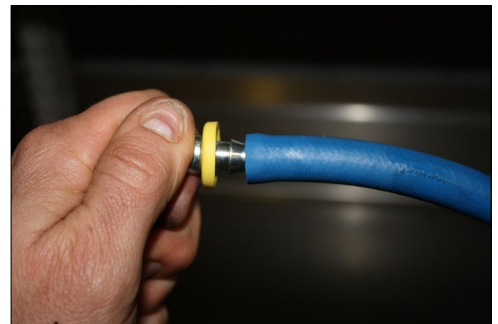
- E. With the factory pump out of the truck, remove the outlet banjo bolt for re-use. Discard factory fuel line.



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.

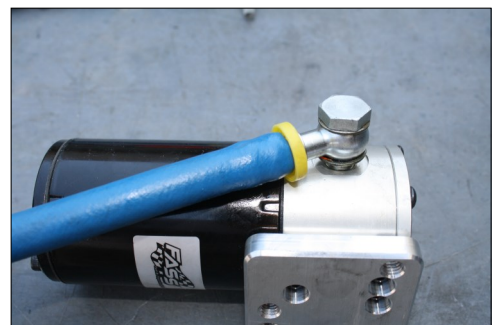
STEP 2: PREPARE DRP

- A. Using oil, insert BF-4001 banjo Push-Lok fitting into each end of the provided FL-1001 fuel line. Use 1' of fuel line for top inlet filter canister and 8" for side inlet filter canister.



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. Using two copper washers on each side and a factory banjo bolt, attach the banjo bolt fitting to the outlet side of the DRP. **Do Not** tighten at this time.



- C. Install the provide button head screw through the beveled hole in the DRP bracket on the pump. This screw will act as a guide pin **only** for the factory inlet Support Bracket.



STEP 3: MOUNT DRP

- A. Using three provided bolts, install DRP onto factory bracket. Make sure the installed fuel line is pointing up to the top of the factory filter canister.



- B. Re-install factory inlet bracket/fuel line assembly using factory banjo bolt and two copper washers. Make sure the bracket guide pin is through the hole in the factory support bracket. Torque to 18 ft./lbs.

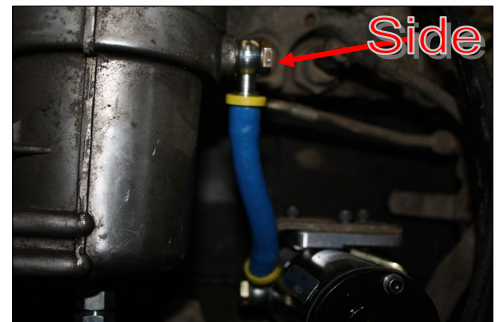
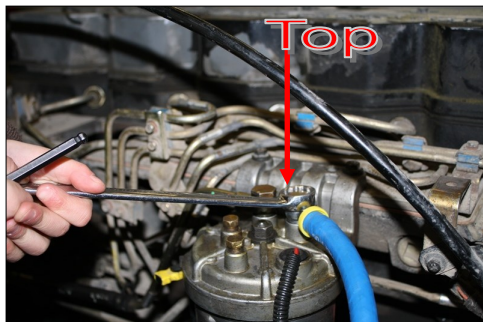


- C. Cut the suction side plastic 5/16" Flex-line about 8" before it enters the DRP, leaving space to insert the in-line fuel filter. Use the hose clamps to secure fuel line to the filter. Make sure the flow arrow is in the proper direction.

Note: Inline filter will need to be replaced every 6,000 miles.



- D. Use the remaining two copper washers and factory banjo bolts, attach the fitting to the inlet of the factory filter canister. Torque to 18 ft./lbs.



- E. Tighten outlet banjo bolt on the DRP to 18 ft./lbs. Plug in factory wire harness to the DDRP until lock clicks and is secure.

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

STEP 4: 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?
- 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 4 Year 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 16240 Hwy O Suite B Marthasville, MO 63357

HARD STARTS (DODGE '98.5 - '02)

Answer the following questions:

- Did the vehicle start fine without the DDRP running? Do you have high mileage on the VP44? If yes, have your VP44 checked. Has the VP44 been subjected to a PSI of 5 or less? Has the VP44 been subject to a failing lift pump? Does it occur more frequently when the conditions are warm? Have you recently replaced your VP44? Was it used?

If yes to any of these questions, Start vehicle as soon as you enter the key (*do not wait for the "wait to start" light to go out*) If the vehicle starts, it suggest that the problem lies with the VP44.

- Is the fuel pressure where it should be?
- Has the truck had an ECM re-flash? If not, contact your dealer to find the most current flash for your truck.

LIMITATION OF 4 YEAR 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, 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.
16240 State Hwy O Suite B
Marthasville, MO 63357
636-433-5410

NOTES