FASS Diesel Fuel Systems

6.7L Cummins Drop-In Filtration System

INSTALLATION MANUAL

DIFSRAM5001



DESIGNED, MACHINED & ASSEMBLED IN THE USA

2025-2027 6.7L Cummins

LIFETIME WARRANTY AVAILABLE

Note: Cab and Chassis may require modifications

RAM

FASS DIESEL FUEL SYSTEMS® - ENGINEERED EXCELLENCE

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% 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 lifetime warranty is only available on products purchased from the network. There is no warranty on products purchased outside of the network.

IMPORTANT:

In order to qualify for the lifetime 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, www.FASSRide.com.

The complete conditions of the Limitation of Warranty can be found in the back of this manual, and at www.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.

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/ If you don't have online access, call Tech Support at (866) 769-3747

FOLLOW THESE STEPS TO ENSURE A SIMPLE, CORRECT INSTALLATION OF YOUR NEW DROP-IN 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. Follow the instructions to see the fuel line detail.

1. Be sure the model number on this installation manual matches that of 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 vehicle's 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.

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

Your name, address and daytime phone number
Model **DIFSRAM5001**
Serial Number
Last 6 digits of vehicle's VIN
Date of purchase
Nature of your concern

Serial Number location



INSTALLATION MANUAL
DIFSRAM5001

NOTE:

Installation Videos are available for viewing and Owner's Manuals are available for download at www.FASSRide.com

1. Read all instructions before starting installation of this product!
2. Installation of a FASS system not specified for the vehicle can cause severe engine damage.
3. Secure vehicle from ROLLING!
4. Consult vehicle manufacturer's instructions concerning the electrical system before attempting any electrical connections.
5. Be sure that the model number of this installation manual matches that of the outside of the box.
6. Flush and clean all fittings and fuel line from debris.
7. Keep debris from entering the internals of the system during installation.
8. Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.
9. Properly secure fuel lines to prevent chafing.
10. Once the FASS Drop-In Series has been installed, the service life of the OEM filters will be increased drastically. We recommend removing and inspecting the OEM filters every other FASS Filter service interval.

CONTENTS

NOTE: Owner's Manual available for download on our website, www.FASSRide.com

MP-A9106

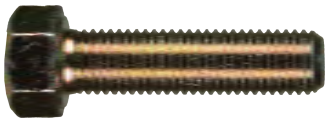




PFB-2002



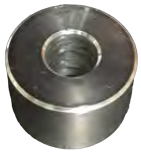
DIFS-UNI-BRKT-1001



HEX BOLT
M12-1.75 X 60mm



1/2" WASHER



DS-1001



DIFS-RAM-WH-1001



FL-1010 x 4'



FL-1001 x 4'



FL-1002 x 4'

MOUNTING PACKAGE CONTENTS



8-ORB-375-QC



10-ORB-500-QC



375-QC-1E-NPT



PL-1212



A624-M53-08-02



A624C6-55-05



A614-M53-08-02



PL-2001BK



PL-1011



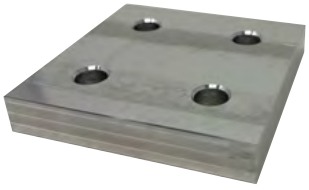
WIFS2001



QTY (3)
WA-1001D



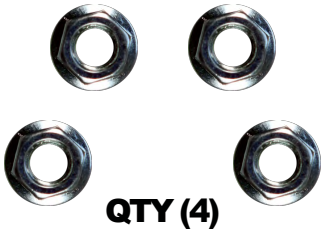
QTY (3) HEX BOLT
1/4-20 x 1-3/4"



GMCSPCR-1001



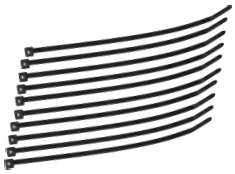
QTY (4) HEX BOLTS
3/8"-16 x 2-1/4"



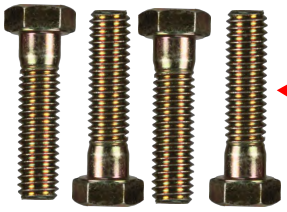
QTY (4)
3/8" FLANGE NUTS



QTY (4)
3/8" WASHERS



QTY (10) MPCT-6BLK



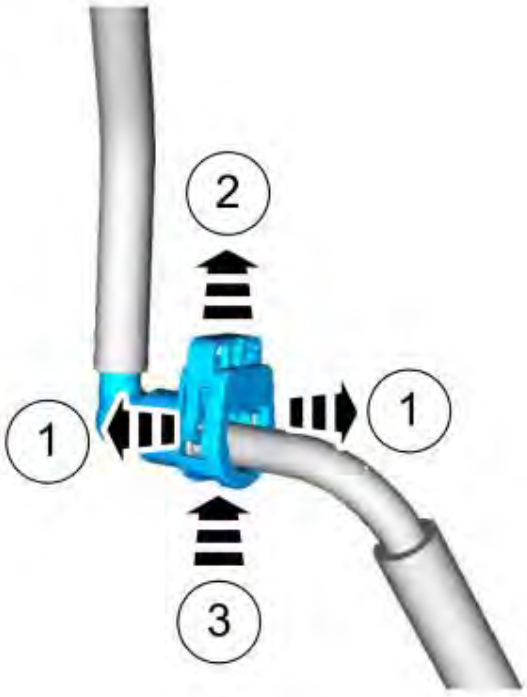
QTY (4) HEX BOLTS
3/8"-16 x 1-1/2"

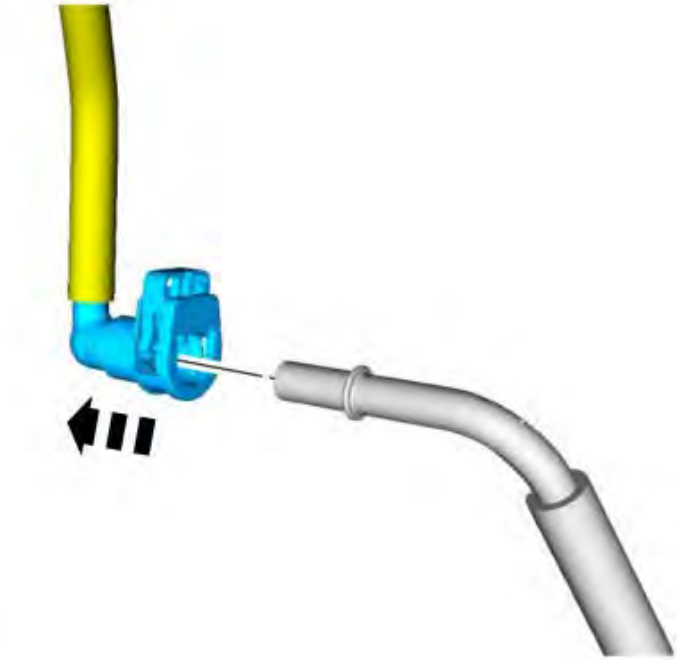
NOT USED
DISCARD



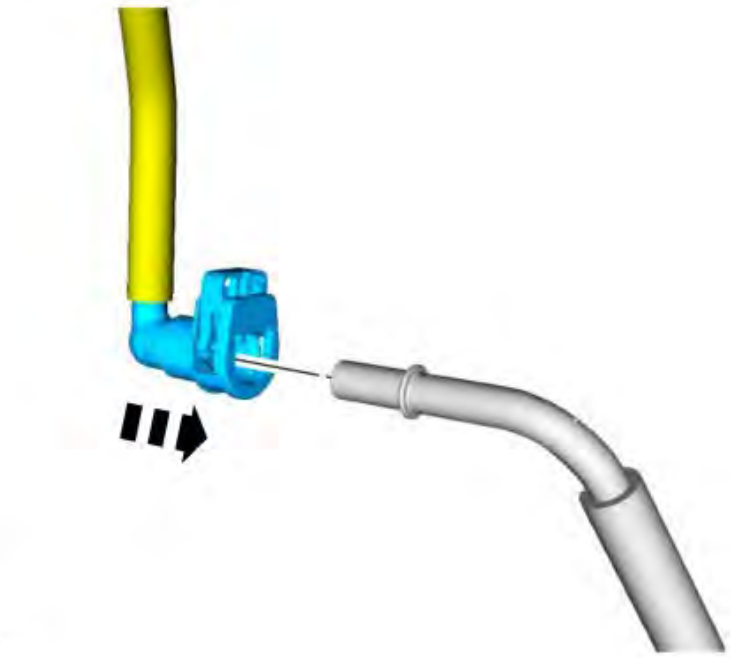
QTY (3) HC-1001

The images below show the proper steps for disconnecting and connecting the quick-connect style fuel lines.



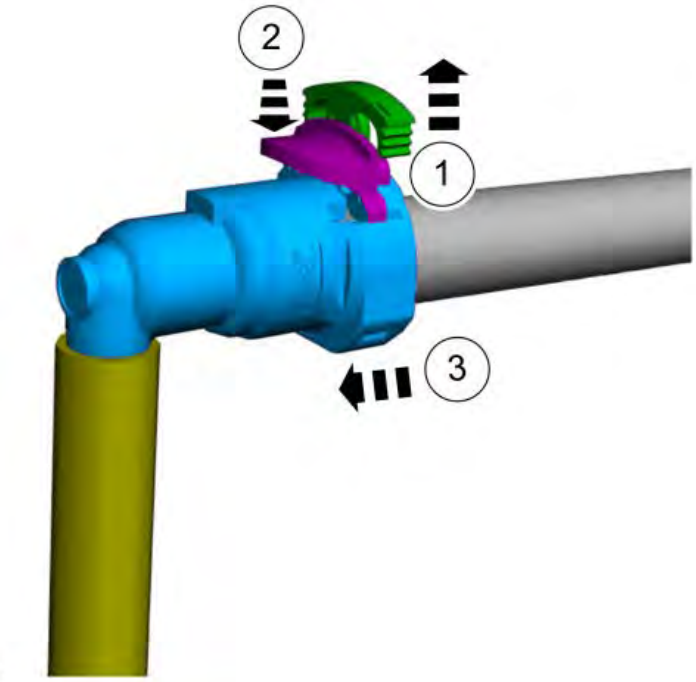


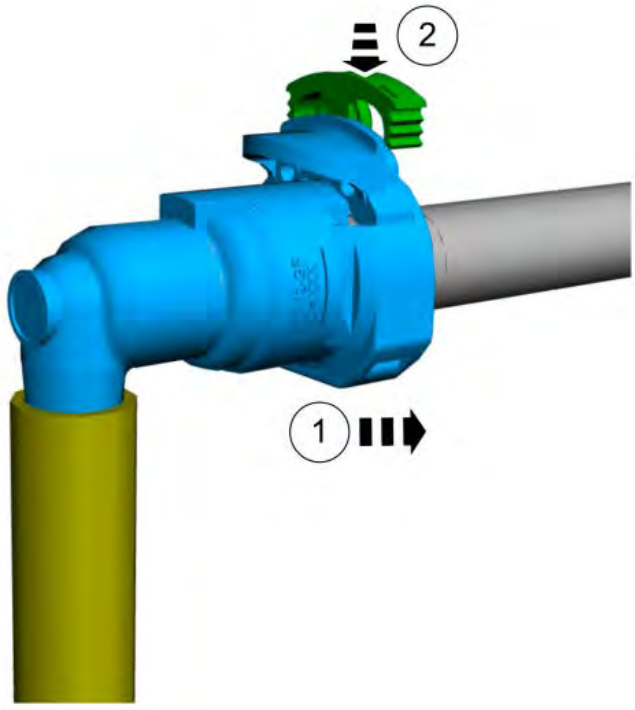
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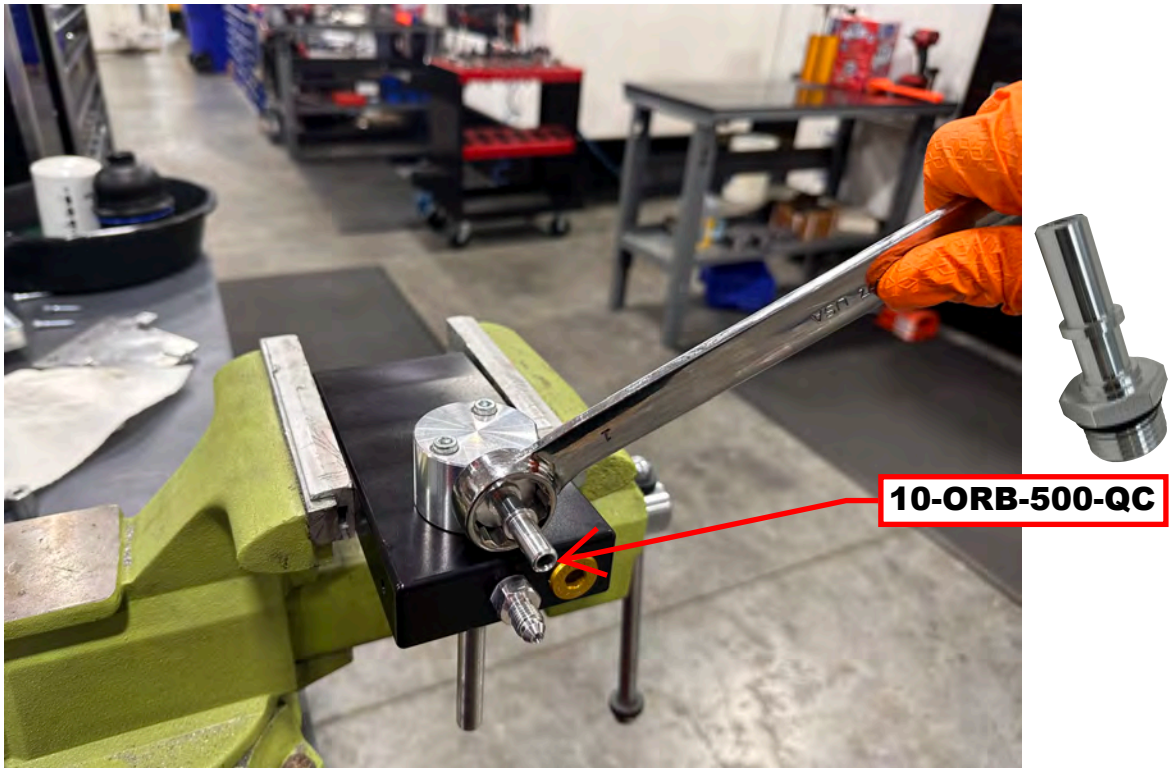


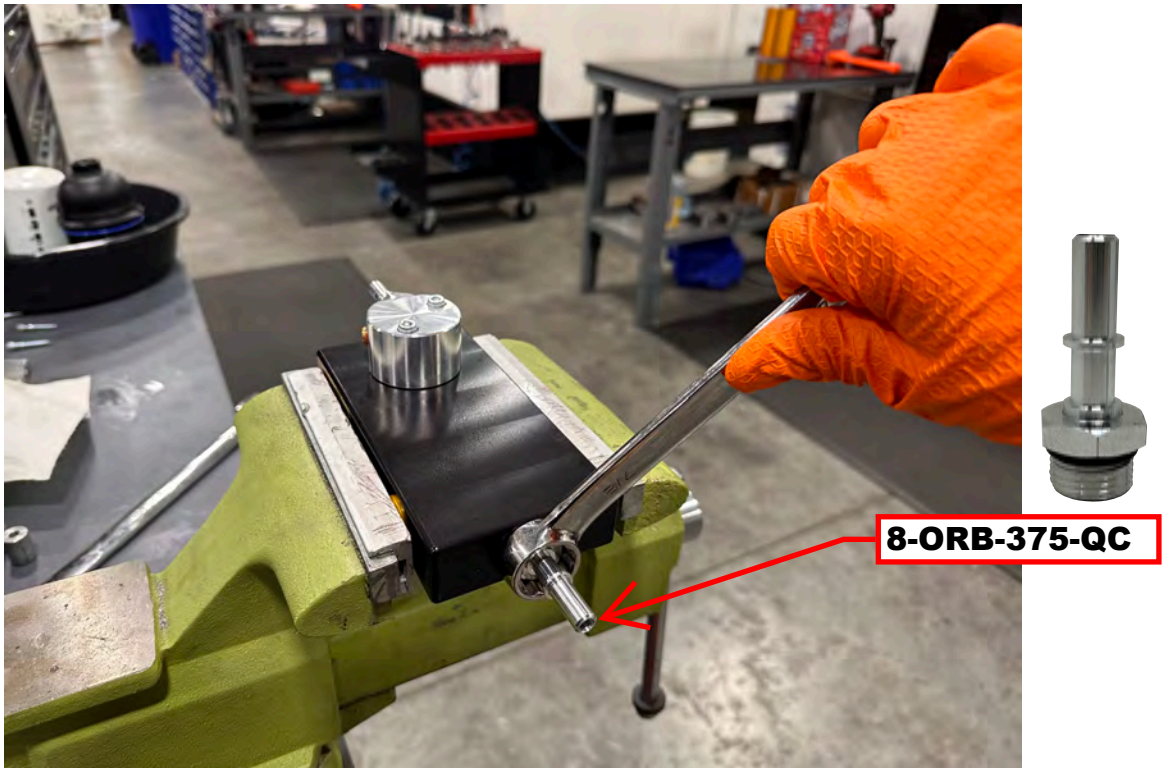
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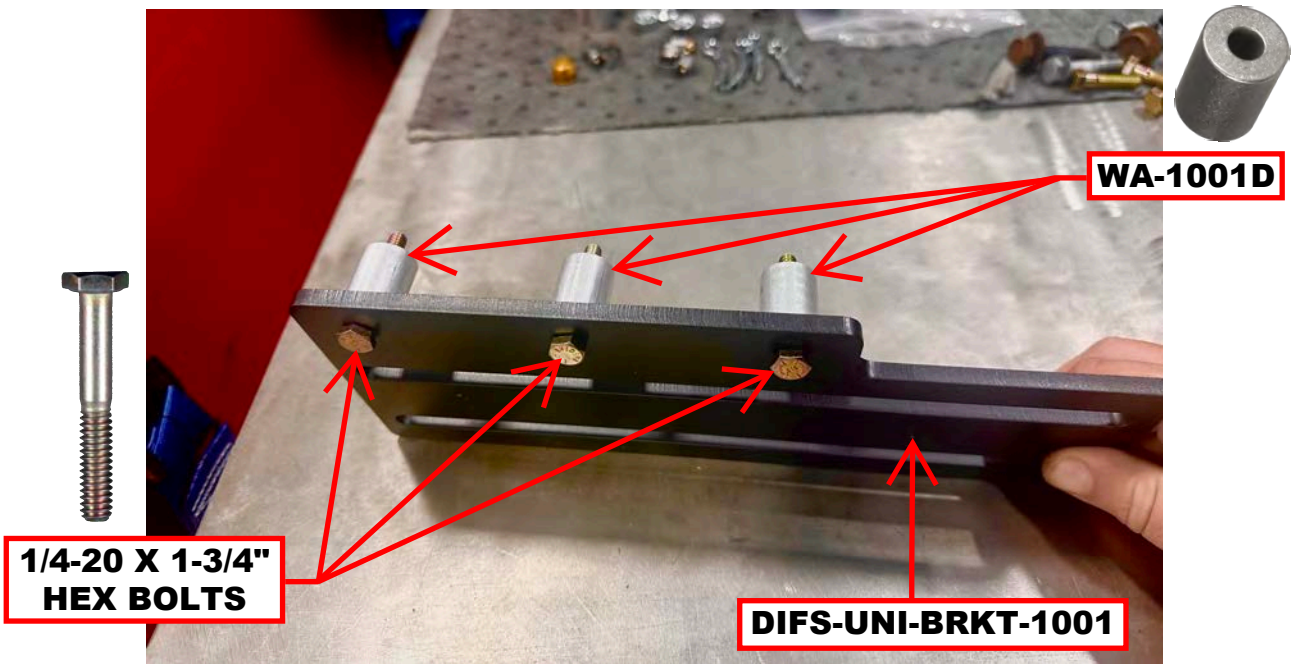
A. Install 10-ORB-500-QC into the fuel manifold and 8-ORB-375-QC into the open rear port on the FASS. Tighten both fittings accordingly.





B. Place the three 1/4" bolts through DIFS-UNI-BRKT-1001 with the three supplied aluminum spacers. Place the bracket onto FASS and tighten accordingly.

NOTE: BRACKET CAN BE FLIPPED TO ACCOMMODATE YOUR APPLICATION

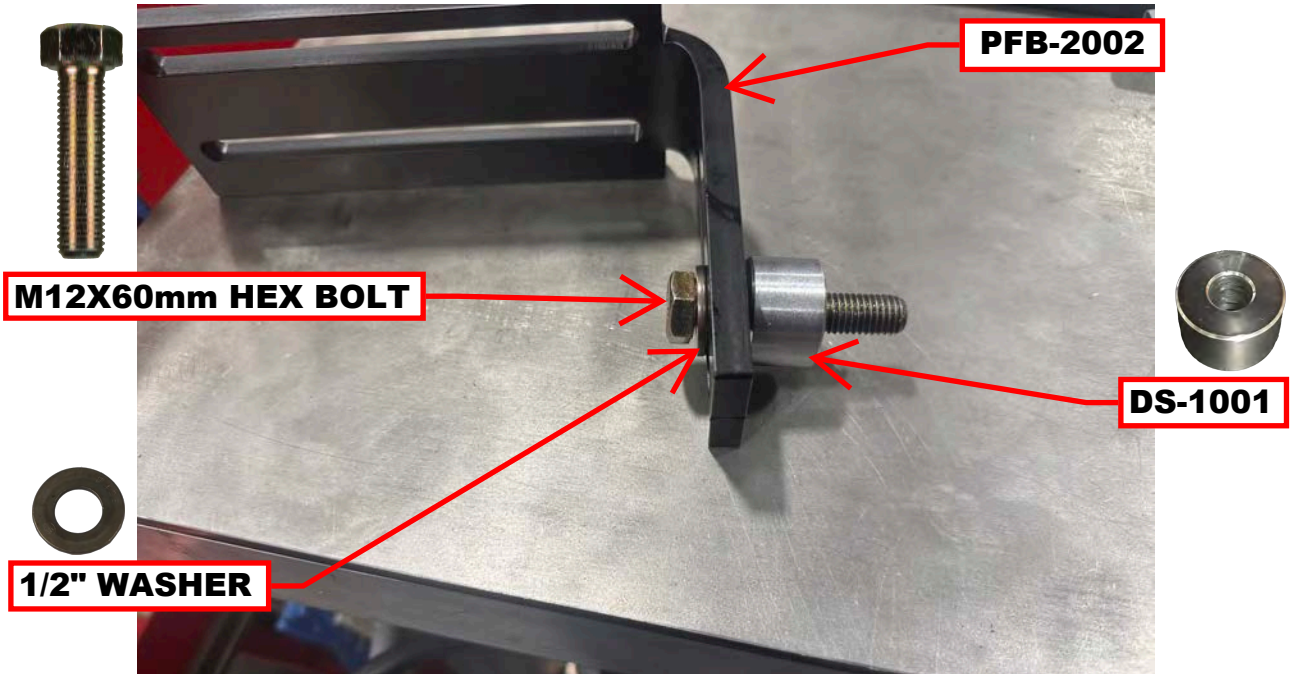




C. Remove the driver side front bed bolt and discard.



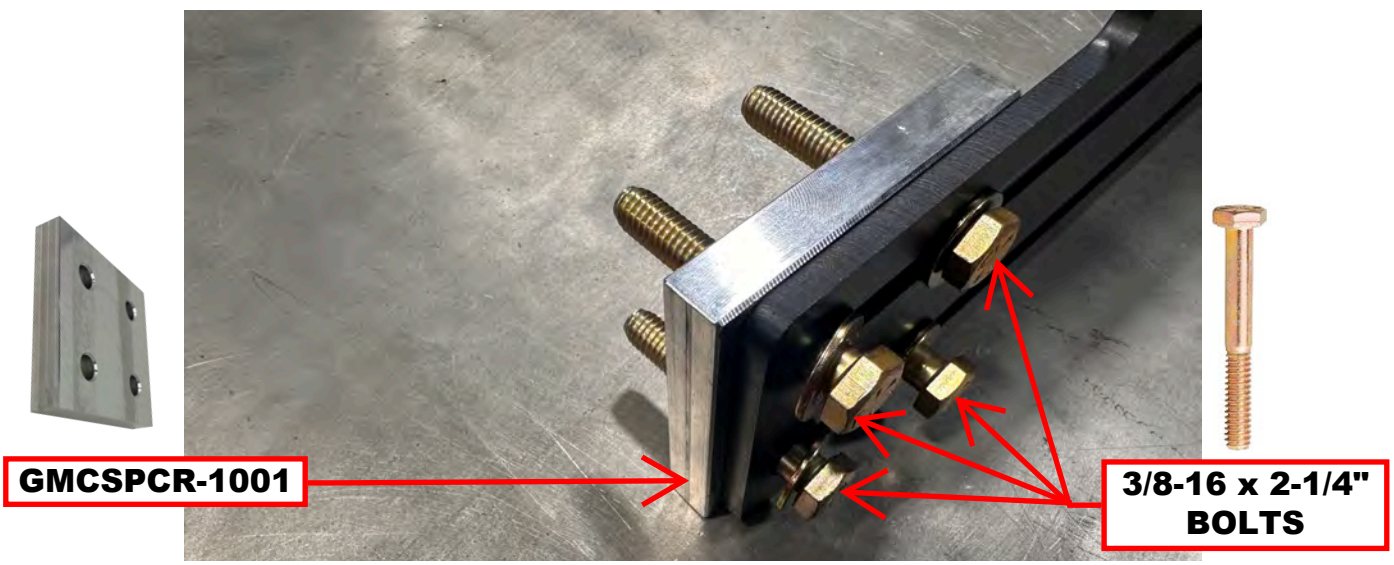
D. Place the supplied M12-1.75 X 60mm Hex Bolt through the supplied 1/2" washer and PFB-2002 with the supplied spacer. Secure the bracket in the OEM bed bolt hole location and tighten accordingly.





E. Place the four 3/8-16 x 2-1/4" bolts through the supplied washers and DIFS-UNI-BRKT-1001 with the supplied aluminum spacer GMCSPCR-1001. Place the bracket onto PFB-2002 using the four supplied serrated flange nuts and tighten accordingly.

NOTE: TORQUE BOLTS NOT FLANGE NUTS

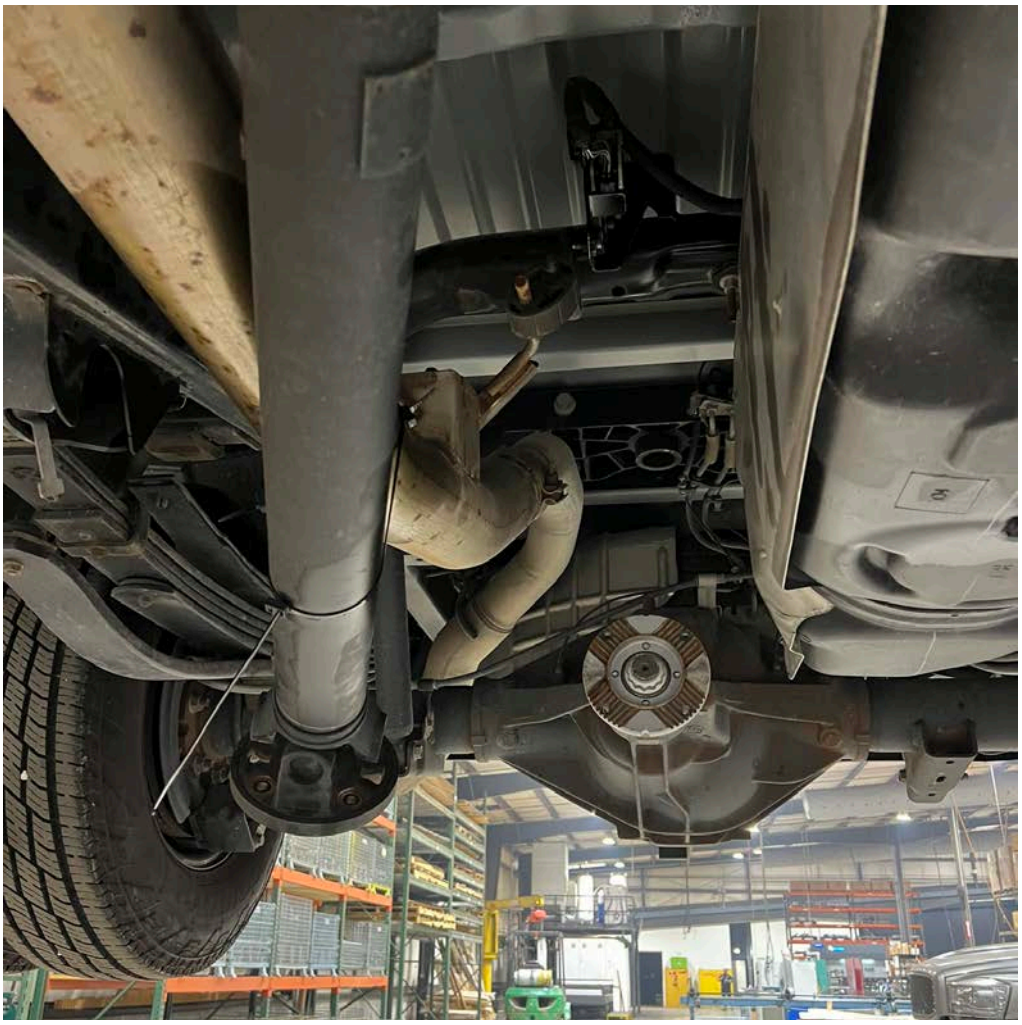




F. It is not absolutely necessary to remove the driveshaft for tank access, but it does afford better access to the passenger side of the tank if it is removed.

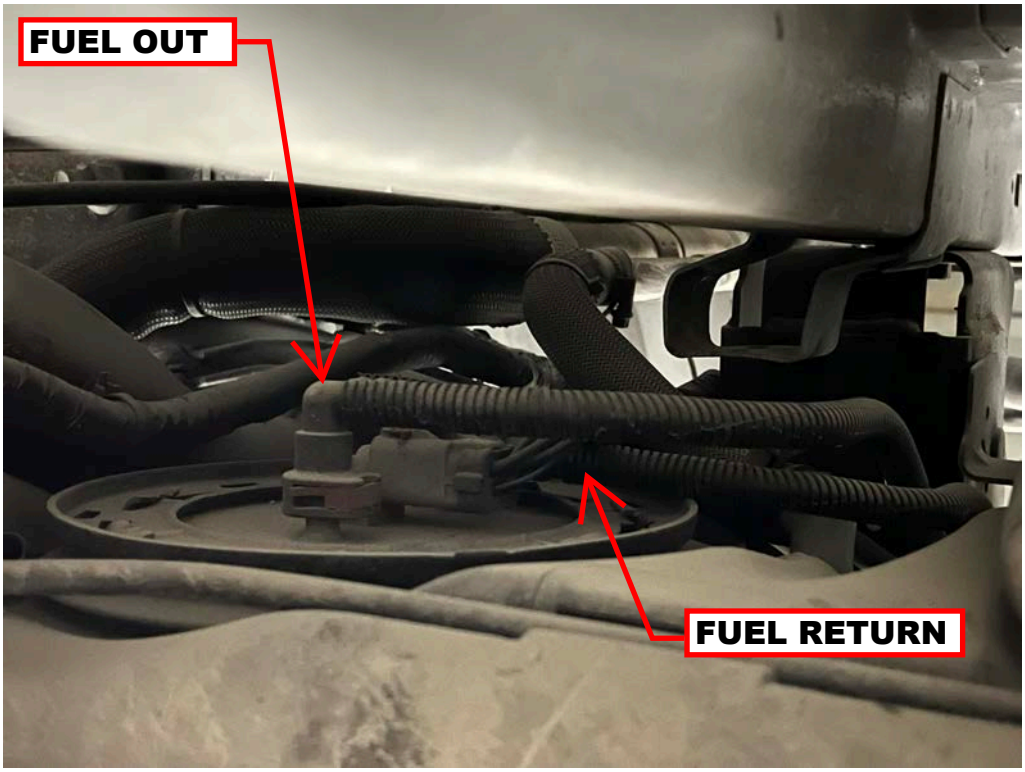
If removing driveshaft, ensure that you have the parking brake engaged properly and that the wheels are chocked.

Once safety measures are in place, remove the four driveshaft bolts. Ensure that the driveshaft is supported adequately off to the side to allow access to the top of the tank.



G. After unlocking quick-connector lock tabs, disconnect *both* 3/8" OEM quick-connect lines from the fuel tank module. The vertical male quick-disconnect (passenger side of tank) is the supply, the horizontal male quick-disconnect (driver's side) is the return.

Ensure that the orifices of the lines you removed remain free of dust, dirt and debris.



H. Install thread tape on PL-1011, keeping tape on threads and out of orifice. Place 375-QC-1E-NPT in vise and install PL-1011, tightening accordingly.



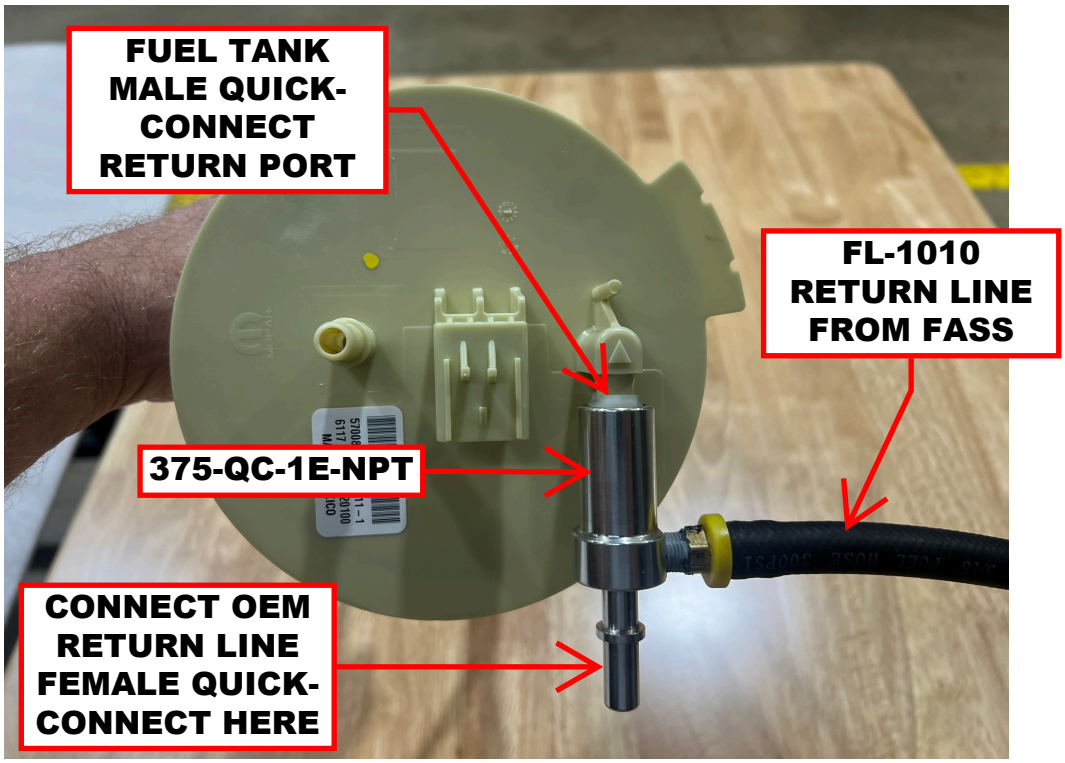


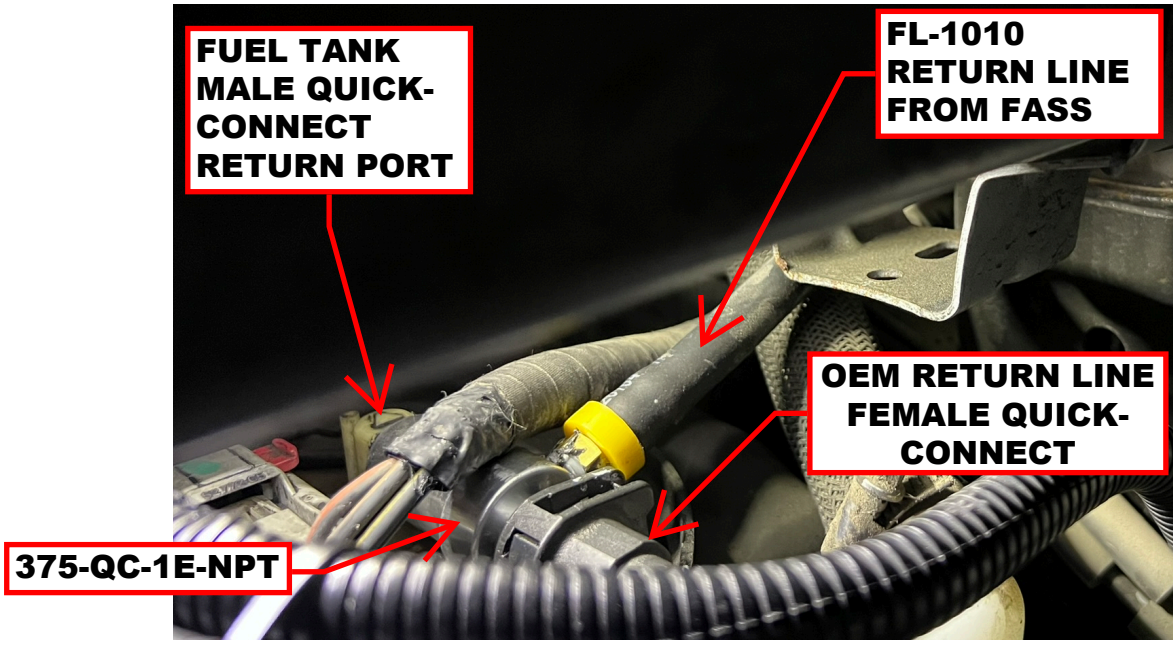
I. Using grease on PL-1011, press FL-1010 onto PL-1011.



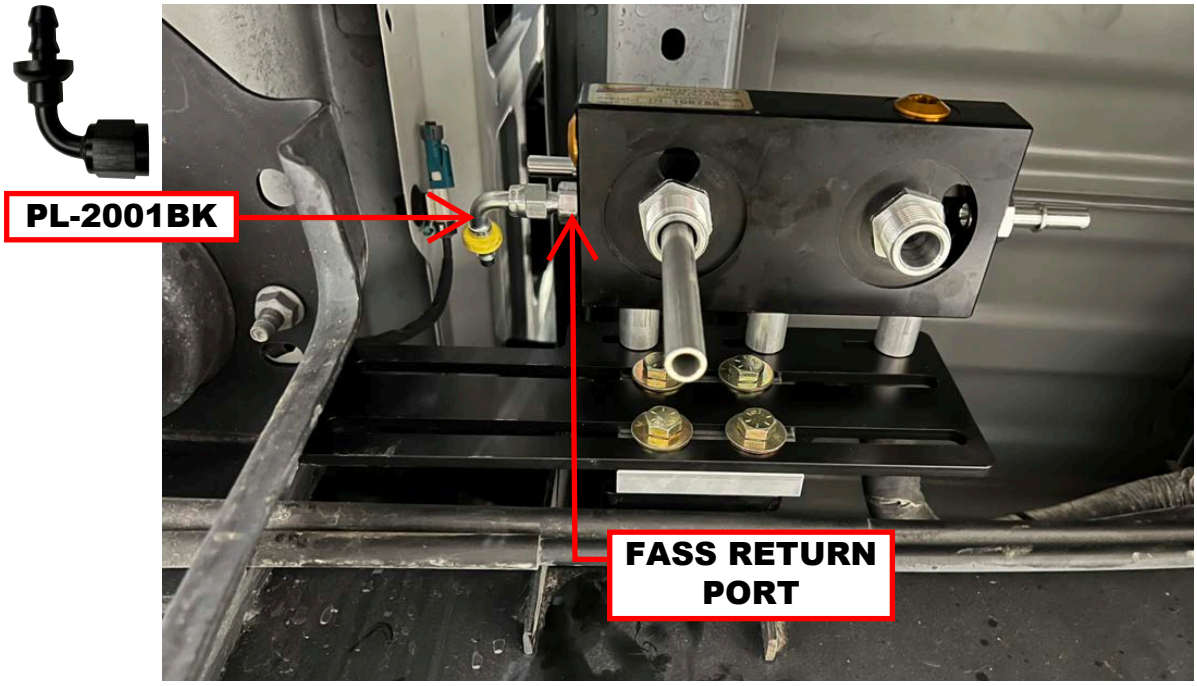


J. Snap OEM return line female quick-connect fully onto male quick-connect of 375-QC-1E-NPT. Install female quick-connect side of 375-QC-1E-NPT onto male quick-connect tank return barb, snapping entire assembly fully into place. Route FL-1010 hose across top of tank toward driver's side frame rail. Nestle OEM return line next to plastic line on top of tank.





K. Install PL-2001BK onto FASS return port, then route FL-1010 to it and trim accordingly. Remove PL-2001BK and using grease, install FL-1010 fully onto PL-2001BK. Reinstall PL-2001BK on FASS and turn fitting so hose lays naturally with no kinks, tighten fitting accordingly.



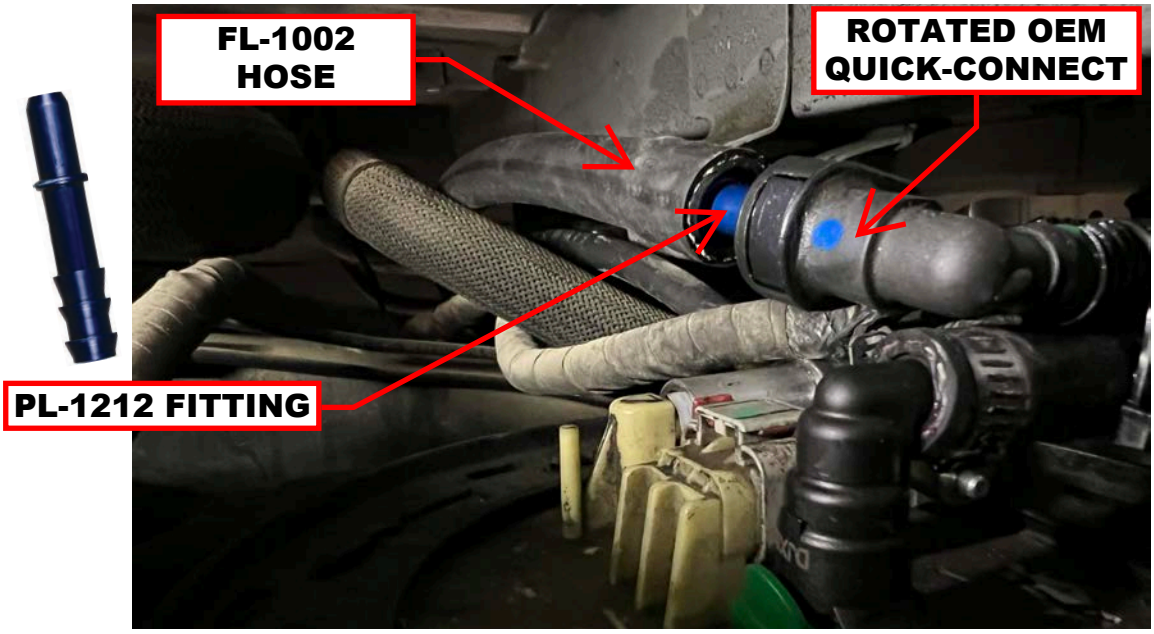


L. Using grease, press PL-1212 fully into FL-1002.



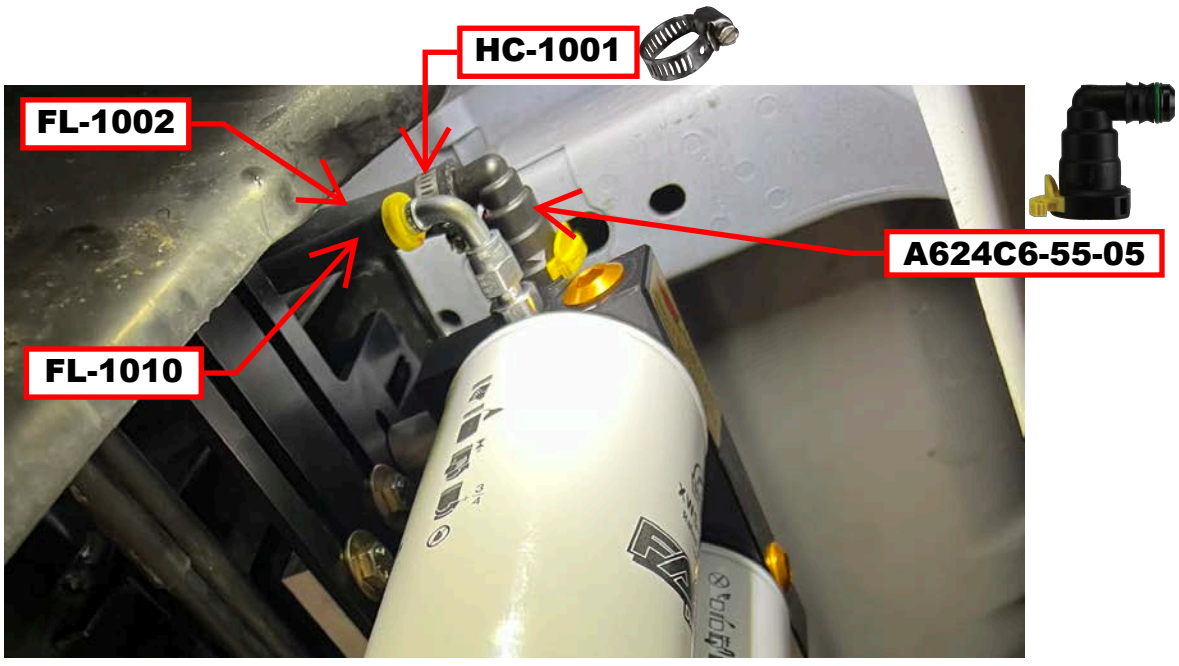


M. Take OEM quick-connect female fitting that was removed from tank pickup and turn it 90º so it is oriented with opening toward the driver's side. Insert PL-1212 complete with FL-1002 hose assembly into the rotated OEM female quick-connect. Ensure that it is fully seated and lock is engaged.

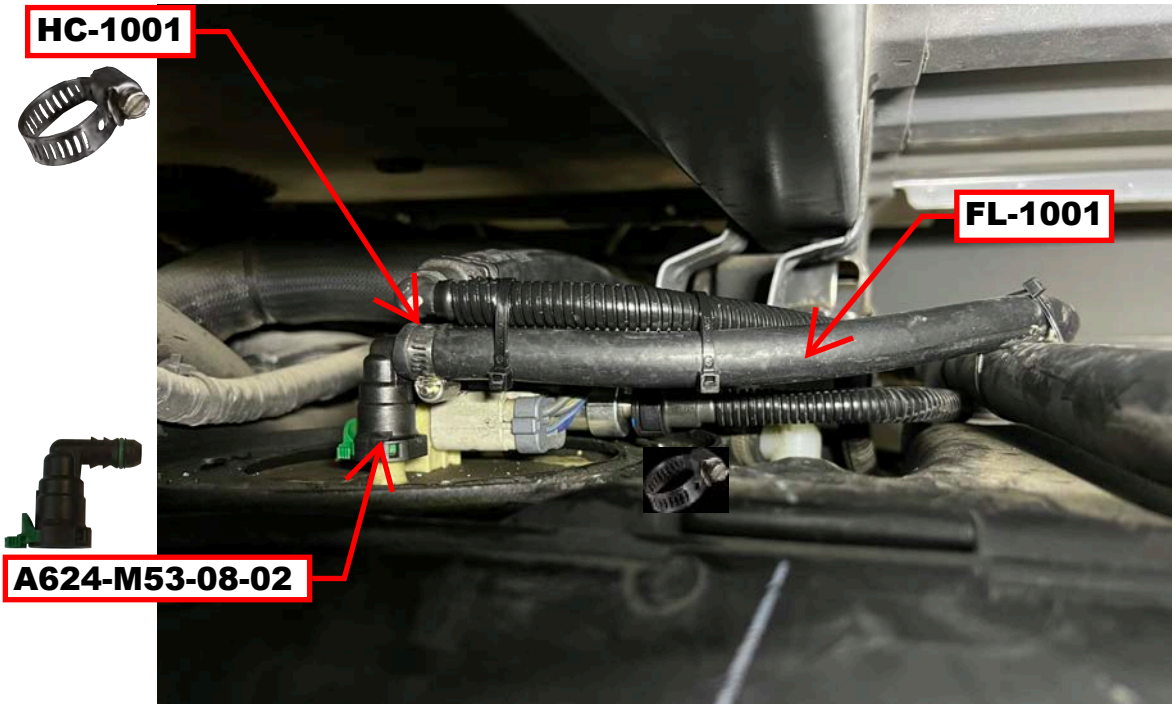


N. Install A624C6-55-05 90º quick-connect onto 10-ORB-500-QC on FASS fuel manifold. Route FL-1002 from tank connection to A624C6-55-05 90º quick-connect fitting following alongside FASS return line FL-1010 and trim to appropriate length. Using grease, press FL-1002 onto A624C6-55-05 and secure using HC-1001. Ensure lock is engaged on A624C6-55-05.

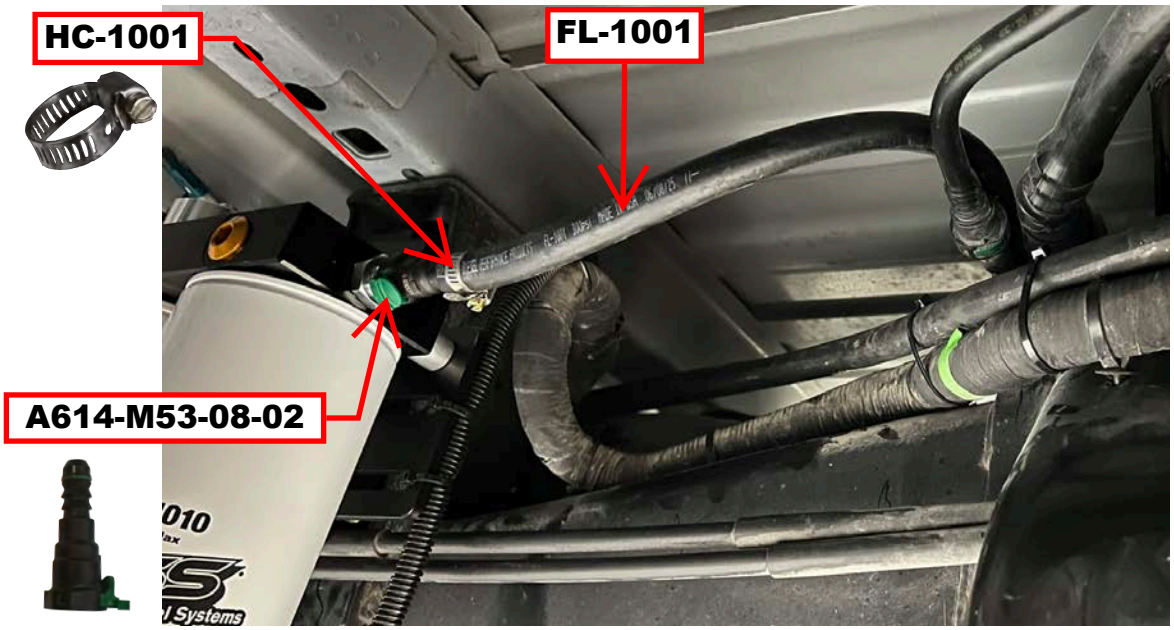




O. **Using grease, insert A624-M53-08-02 90º quick-connect fitting into FL-1001, secure with HC-1001. Fully seat A624-M53-08-02 complete with hose assembly onto male quick-connect on fuel tank. Engage lock and route FL-1001 across top of fuel tank, following plastic tubing across tank toward the FASS unit.**



P. **Install A614-M53-08-02 onto 8-ORB-375-QC on FASS unit. Route FL-1001 to this fitting and trim to length. Using grease, insert A614-M53-08-02 quick-connect fitting into FL-1001, secure with HC-1001. Ensure A614-M53-08-02 is fully seated and lock is engaged.**



Q. **Remove drain cap from filter CWS1010 and replace with water-in-fuel sensor WIFS2001, tightening accordingly.**



WIFS2001





R. Place a thin film of grease on both filter gaskets. Install the CWS1010 on the rear of the FASS and the XWS-3002XL on the front of the FASS, tightening each accordingly. Install DIFS-RAM-WH-1001 wiring harness onto WIFS2001 and route harness forward along frame toward OEM filter housing on engine, securing to vehicle electrical harness with supplied zip ties.

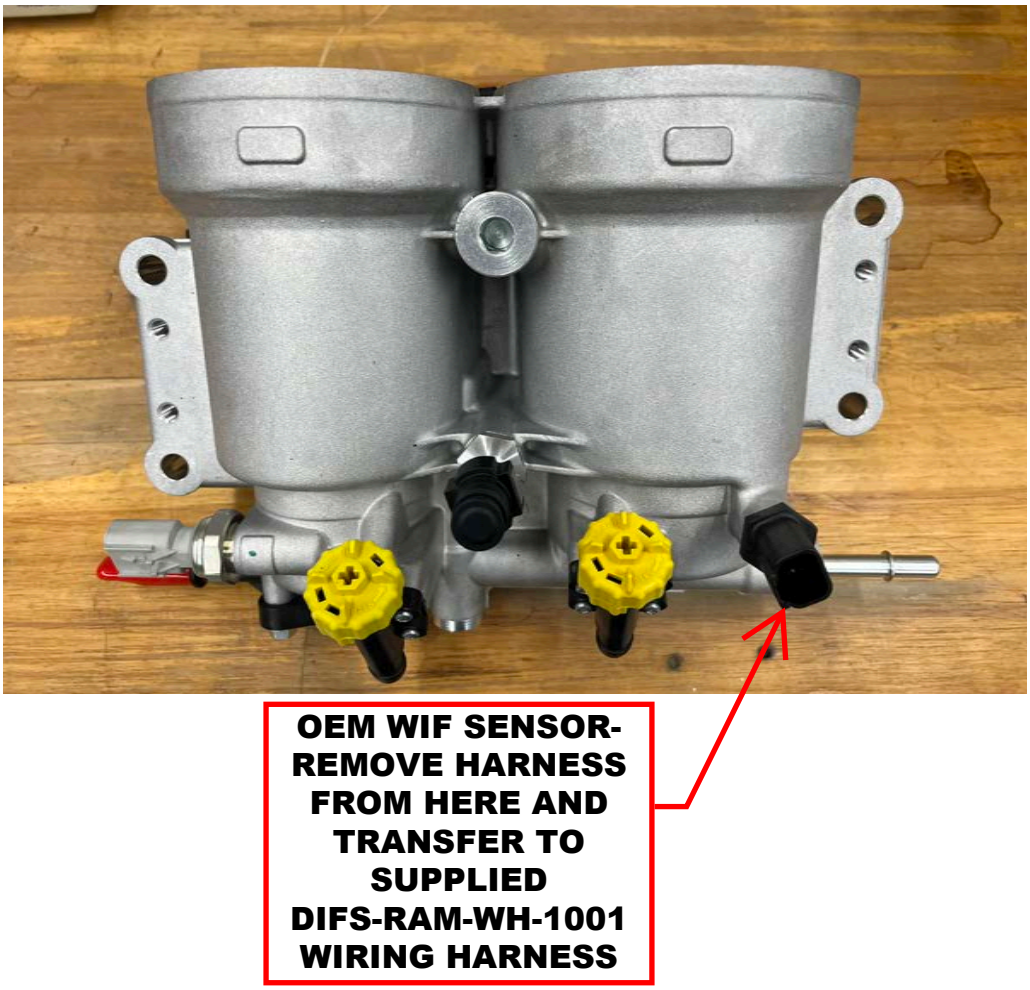




S. Unplug OEM harness from WIF sensor on rear of OEM filtration unit located on driver's side of engine and plug into DIFS-RAM-WH-1001. Coil up any excess harness and zip tie securely in a safe location.

Once the FASS Drop-In Series has been installed, the service life of the OEM filters will be drastically increased. We recommend removing and inspecting the OEM filters every other FASS Filter service interval.

OEM FILTRATION MODULE SHOWN REMOVED FROM VEHICLE FOR ILLUSTRATION PURPOSES.



T. Use supplied zip ties to secure all fuel lines and harnesses.



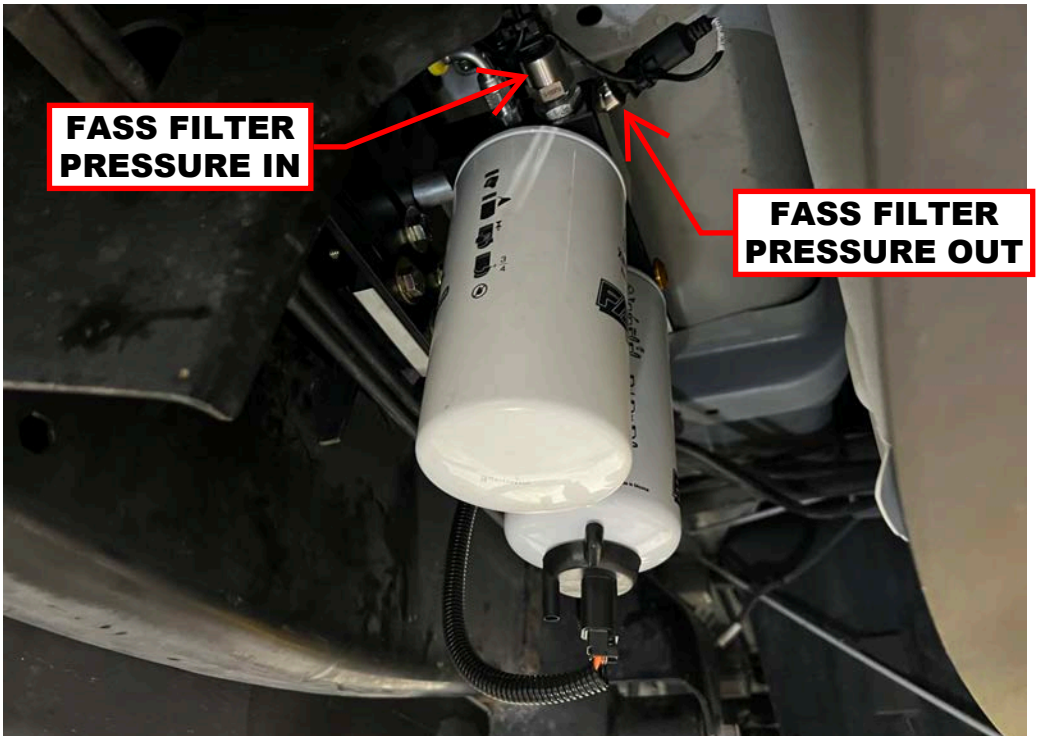


U. If driveshaft was removed, reinstall it using factory procedure at this time. Prime fuel system and check for leaks.

DO NOT FORGET TO REGISTER YOUR PRODUCT!!

V. If you install an optional FASS Connect and intend to use the Filter Life function, the sensor installation will look like this.





LIMITATION OF LIFETIME WARRANTY

Disclaimer: To help ensure 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.

For Technical Support or Customer Service, please have the following information ready so we can properly assist you:

Your Name, Address and Phone Number
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 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.

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.

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