FASS EGR Solutions

6.7L Powerstoke EGR Filtration System

INSTALLATION MANUAL

Part Number: EGRF17

6.7L Powerstoke
2017-2019



DESIGNED, FABRICATED, & ASSEMBLED IN THE USA

TWO YEAR WARRANTY AVAILABLE

Note: Cab and Chassis may require modifications

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 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 two year extended warranty, your product registration form and proof of purchase from an authorized dealer must be submitted to FASS EGR Solutions 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, FASSEGRSolutions.com.
The complete conditions of the Two Year of Warranty can be found in the back of this manual, and FASSEGRSolutions.com.

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

www.fassegrsolutions.com
(866) 769.3747



WARNING!

This product has NO WARRANTY unless:

1. It has been purchased from an Authorized or ViP FASS Dealer. If in doubt, check www.FASSEGRSolutions.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.fassegrsolutions.com/register-a-warranty/ No online access, call our TECH Support at

1-866-769-3747

www.fassegrsolutions.com
(866) 769.3747

FOLLOW THESE STEPS TO ENSURE A SIMPLE, CORRECT INSTALLATION OF YOUR NEW EGR FILTRATION SYSTEM

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 EGR Filtration Systems 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 any installation procedure is uncertain, contact FASS technical support. Call customer service at 636-433-5410, or send us an email: techsupport@FASSride.com with the following information:

Your name, address and daytime phone number Model EGRF17
Last 6 digits of LOT number
Last 6 digits of vehicles' VIN
Date of purchase
Nature of Your Concern
Last 6 Digits of the LOT Number



www.fassegrsolutions.com
(866) 769.3747

INSTALLATION MANUAL

EGRF17

1. Read all instructions before starting installation of this product!
2. Installing the improper EGR Filter can cause severe engine damage.
3. Secure vehicle from ROLLING!
4. Consult vehicle's manufacturers' instructions concerning the electrical system before attempting any electrical connections.
5. Be sure that the serial # on this installation manual matches that of the outside of the box.
6. Keep debris from entering the internals of the system during installation.
7. Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.
8. Properly secure hoses to prevent chaffing.

CONTENTS

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



Mounting Package Part Number:



1719FFB



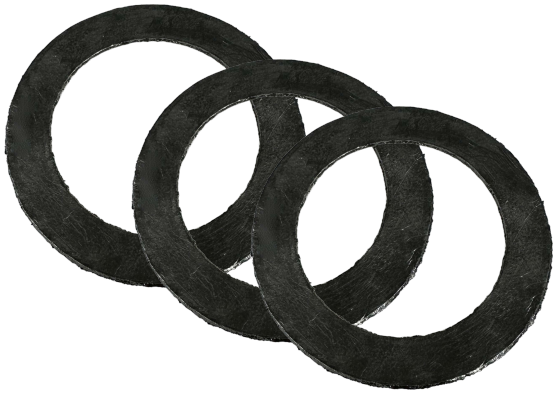
1719FSB





(TWO) 1.5" V-Band Clamp

CLA000105



(THREE)
VBG-1001
(ONE IS SUPPLIED AS A SPARE)

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(866) 769.3747

MOUNTING PACKAGE CONTENTS



FRD1719 01



FRD1719 02

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MOUNTING PACKAGE CONTENTS



281121DPP



(FOUR)
98093A445
M6x25mm



G32662



G32886



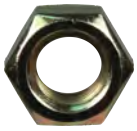
(6")
340410

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(866) 769.3747

MOUNTING PACKAGE CONTENTS



(ONE)
1/4-20 Bolt



(ONE)
1/4-20 NUT



(TWO)
1/4-20
WASHER

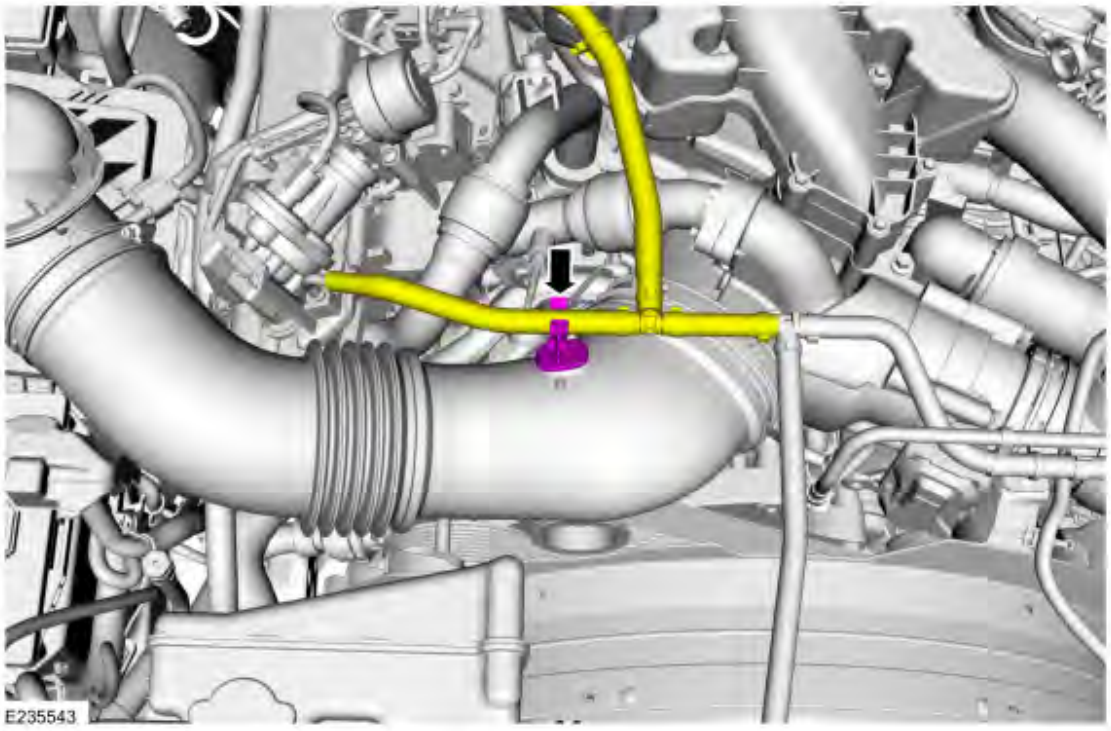


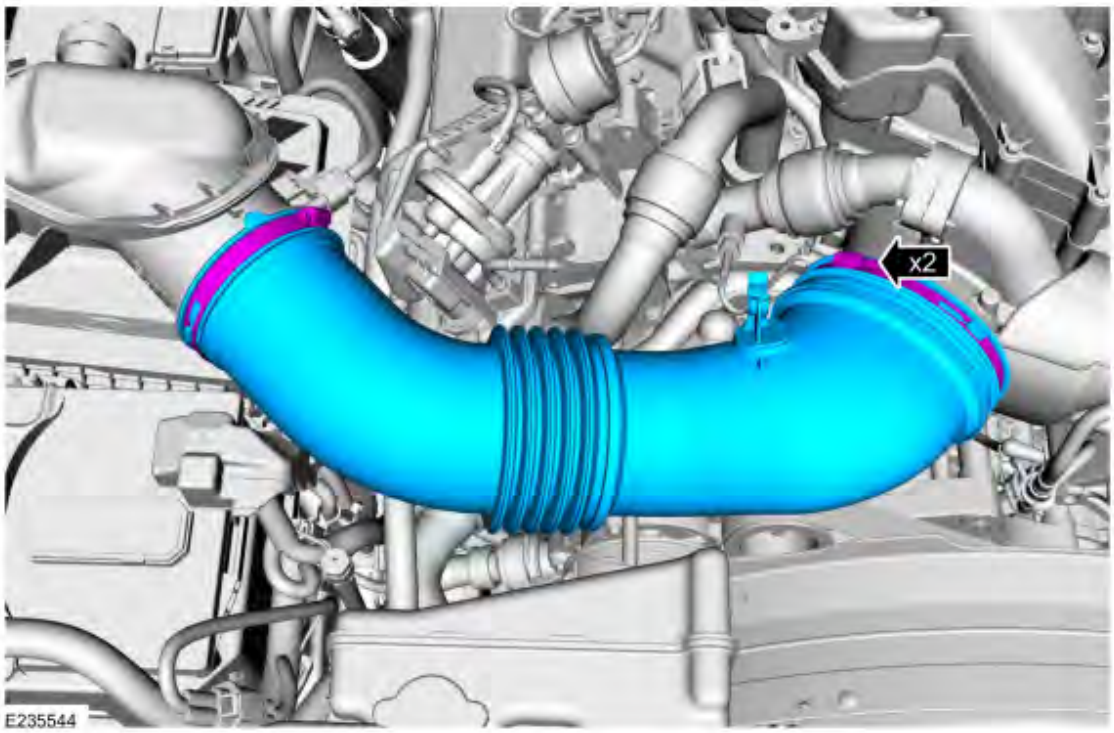
15mm Thin Wrench

STEP 1:
DISASSEMBLY

1. After the engine has fully cooled, remove the OE intake tube between the turbo inlet and air filter by detaching the coolant hose and loosening the worm gear clamps.

NOTE: BE SURE TO BLOCK THE OPEN INTAKE TO PREVENT FOREIGN DEBRIS FROM ENTERING.



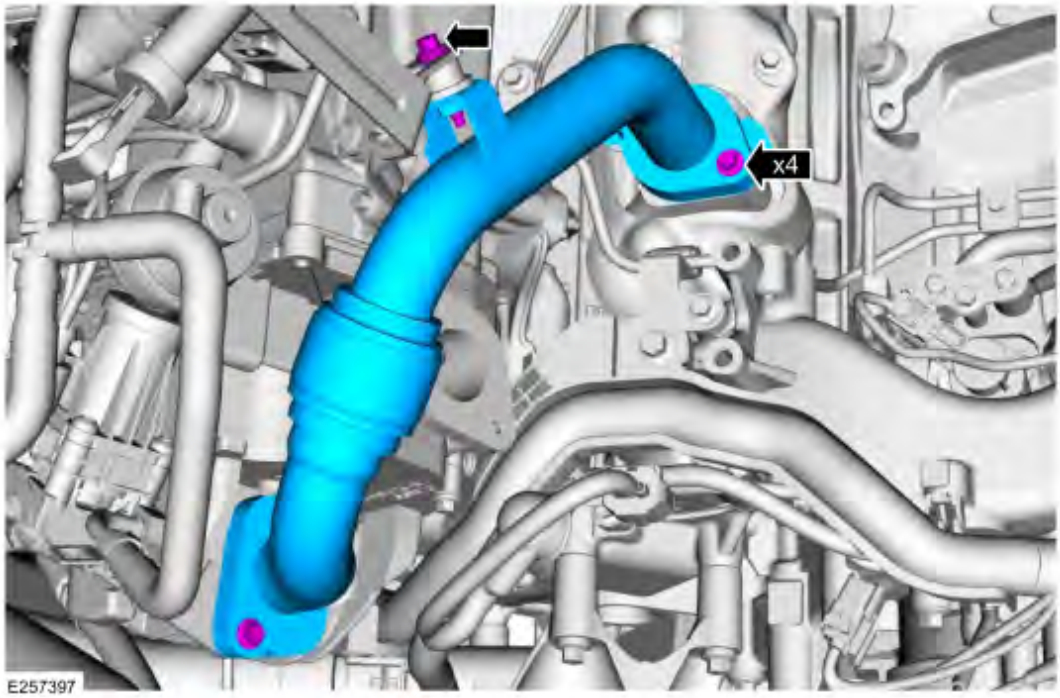


STEP 1:
DISASSEMBLY

HELPFUL TIPS FOR THE NEXT STEP ON THE FOLLOWING PAGE!

THE METHODS BELOW HAVE WORKED WELL FOR US, USE AT YOUR OWN DISCRETION. BE SURE TO BLOCK ANY OPEN PORTS TO PREVENT FOREIGN DEBRIS FROM ENTERING.

- A 5/16" socket is slightly smaller than an 8mm and can offer better grip on the head of the bolt.
- A 3/8" drive extension, swivel, and shallow socket seems to work best.
- Once the socket and extension are on the bolt head, it can help free it if you tap the end of the extension with a hammer.
- Remove the 8mm bolt towards the center of the engine first as it is typically the easiest.
- If the second bolt seems very tight you can twist the EGR tube back and forth without putting any torsional load on the bolt. This can help free the head of the bolt.
- Once you get the bolt to turn enough to have a gap between the flange, spray with penetrating fluid and let it soak.



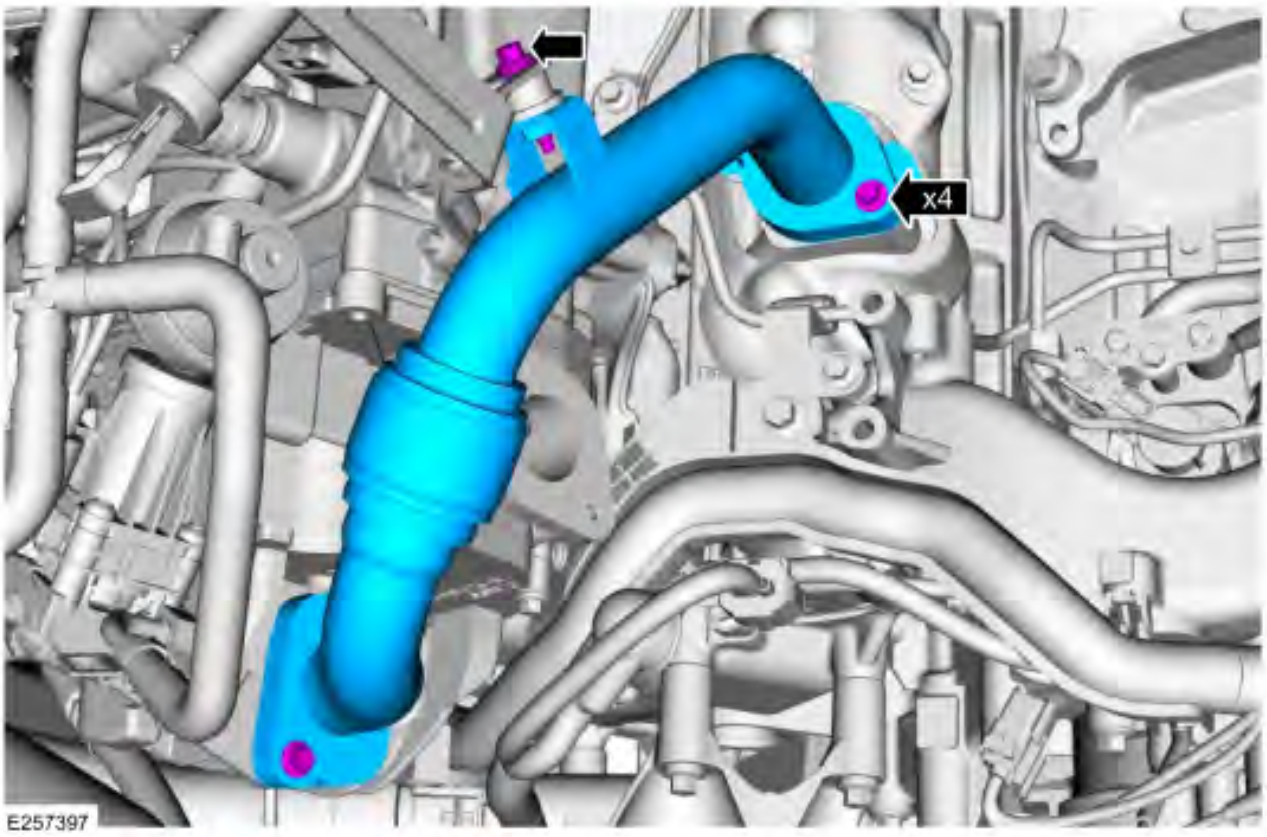
STEP 1:
DISASSEMBLY

NOTE: IT IS VERY IMPORTANT THAT YOU TAKE YOUR TIME WITH THIS STEP. REFER TO THE PREVIOUS PAGE FOR HELPFUL TIPS!!

2. Remove the 8mm bolt holding the support bracket to the middle of the EGR crossover tube coming from the exhaust manifold. Remove the two 8mm bolts that attach the EGR tube to the front of the EGR cooler and the two 8mm bolts that attach the EGR tube to the exhaust manifold.

REMOVING THE ENTIRE SUPPORT BRACKET FROM THE EGR COOLER IS NOT NECESSARY, BUT WILL GIVE YOU MORE ROOM. THIS CAN BE PLACED OUT OF THE WAY BUT LEFT CONNECTED.

Once the bolts are free, continue to remove and then use a flexible grabbing device to remove the bolts. THE BOLTS ARE NOT MAGNETIC. Place the OE EGR tube aside.

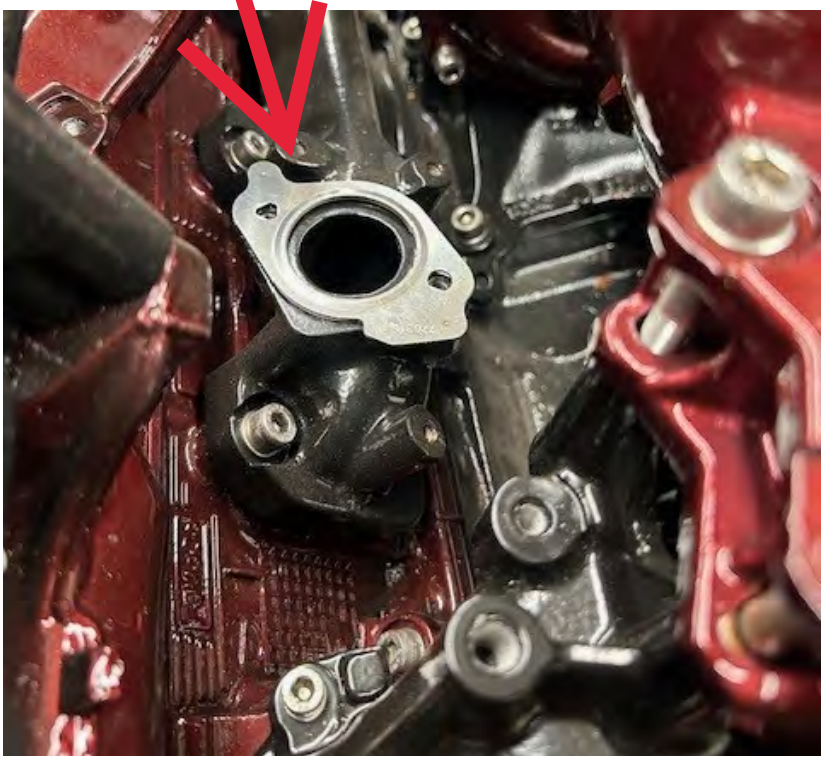


STEP 2:
ASSEMBLY

1. Install the supplied gasket PN. G32886 onto the exhaust manifold as shown.

NOTE: STUDS WILL NOT BE INSTALLED IN THE OEM MANIFOLD!





STEP 2:
ASSEMBLY

NOTE:
THE IMAGE BELOW IS FOR REFERENCE AND SHOWS THE CORRECT EGR FILTER TUBE ROUTING. HARDWARE MAY VARY FROM THIS PICTURE!



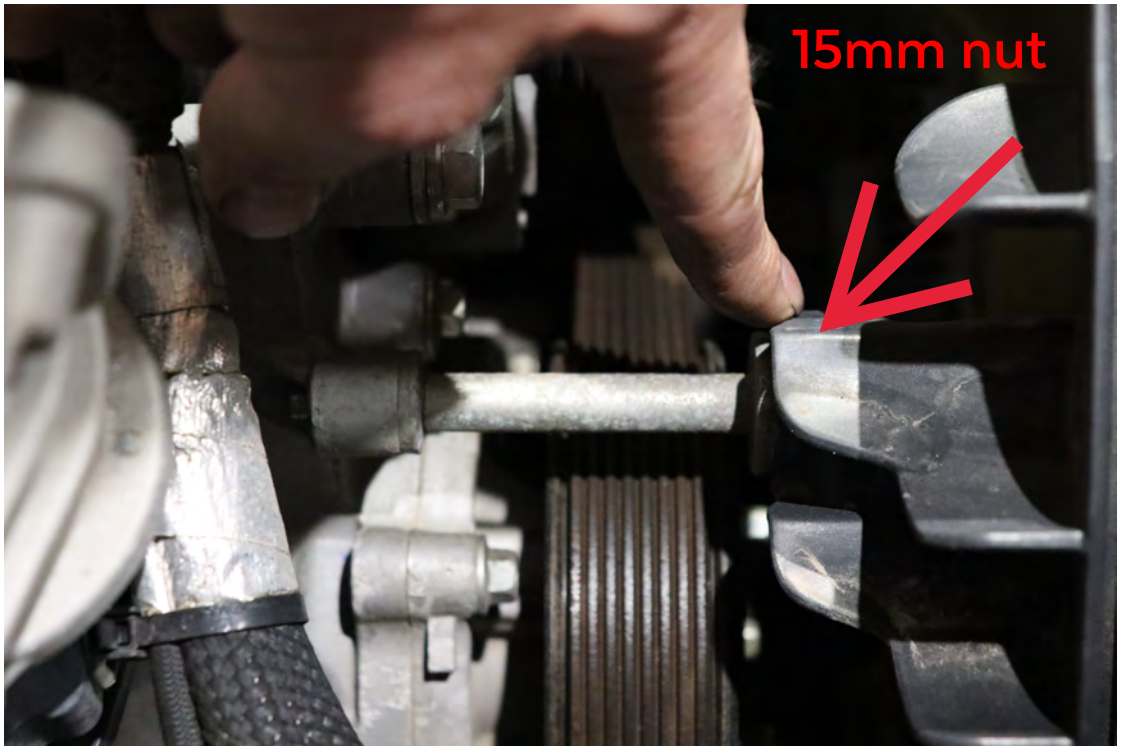
STEP 2:
ASSEMBLY

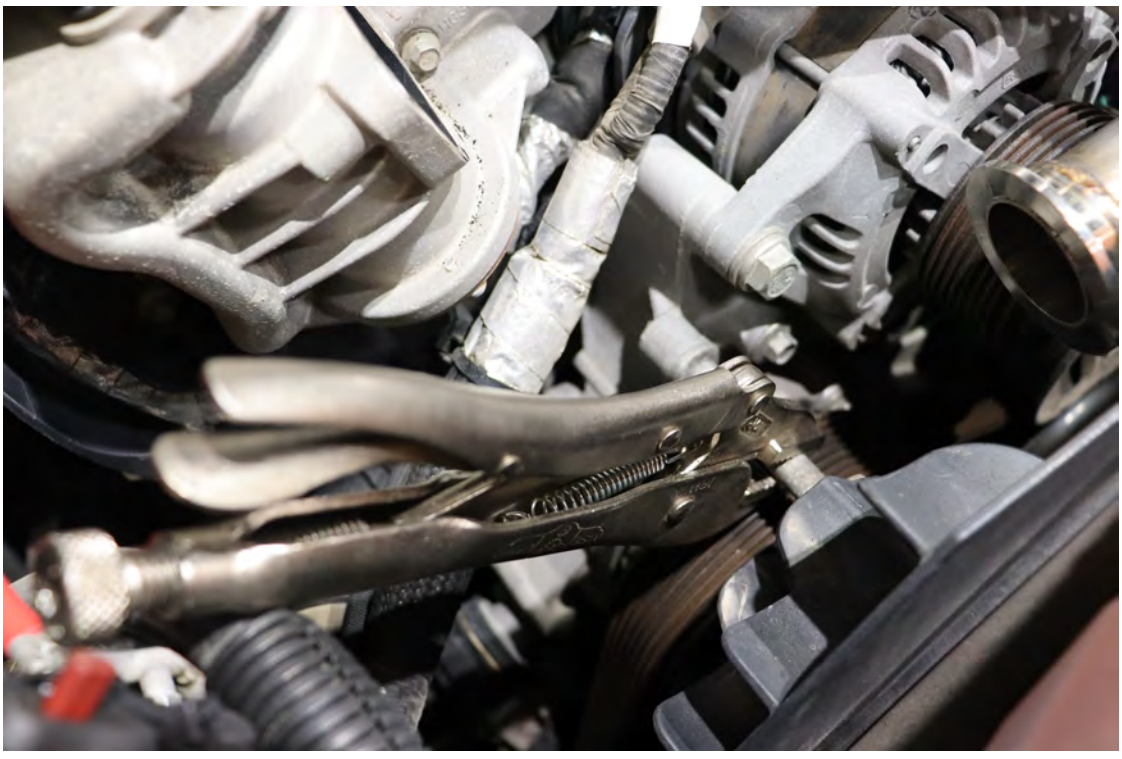
3. Install EGR tube FRD1719-01 onto the exhaust manifold and use a flexible grabbing device to place two M6x25mm flange bolts into the bolt holes. Thread the bolts into the exhaust manifold, but leave the bolts loose.



STEP 2:
ASSEMBLY

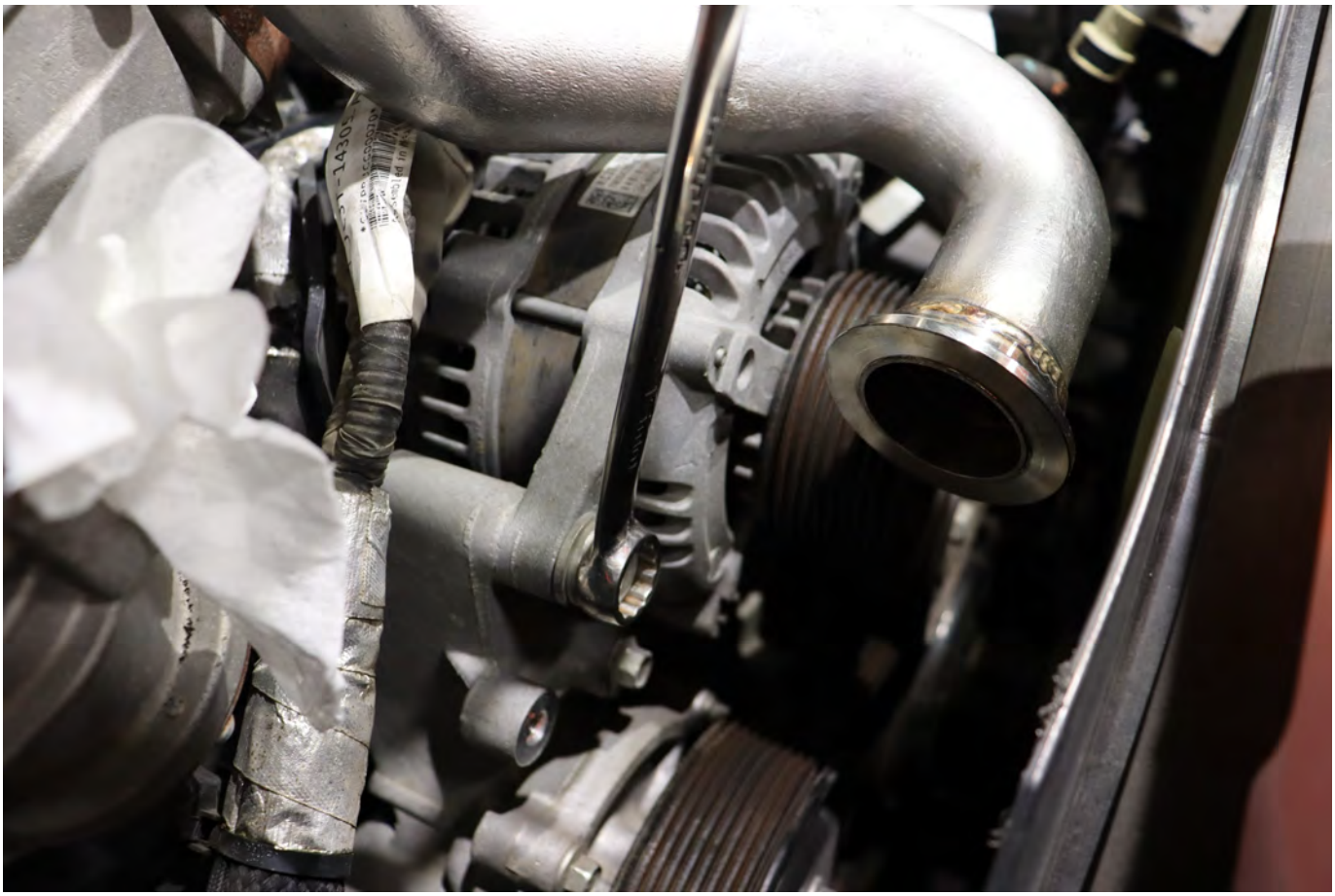
4. Remove the 15mm nut from the fan shroud support stud. Remove the fan shroud support using a pair of locking pliers.





STEP 2:
ASSEMBLY

5. Loosen the 15mm alternator bolt about 1/4".



STEP 2:
ASSEMBLY

6. Using the previously installed EGR inlet tube as a guide, hold the FASS EGR Filter in place to reference the section of the fan shroud that must be trimmed. A MOUNTING LOCATION WILL BE ADDED LATER TO SUPPORT THE FAN SHROUD.



STEP 2:
ASSEMBLY

7. Trim the three fins and mounting hold off of the fan shroud using an air saw or similar tool.



STEP 2:
ASSEMBLY

8. Clearance the lower casting rib on the EGR cooler end cap to clear the EGR filter outlet tube. A carbide burr, flap wheel, or file will work nicely. BE SURE TO CLEAN ALL CUTTING AND GRINDING DEBRIS!





Place a thin layer of grease on the v-band flanges of the EGR tubes to hold the gasket in place in the following steps!





STEP 2:
ASSEMBLY

9. With a supplied a VBG-1001 and a v-band clamp, install the outlet tube PN. FRD1719-02 to the outlet of the EGR Filter outside of the truck. Tighten the v-band clamp accordingly!

NOTE THE FLOW DIRECTION!





STEP 2:
ASSEMBLY

10. Using two of the supplied M6x25mm bolts, loosely attach the outlet tube to the inlet of the EGR cooler.



STEP 2:
ASSEMBLY

11. Loosely connect the filter inlet to the inlet tube with a supplied a VBG-1001 and a v-band clamp.





STEP 2:
ASSEMBLY

12. Slide the EGR Filter bracket PN. 1719FFB behind the alternator bolt head and washer, but leave loose.



STEP 2:
ASSEMBLY

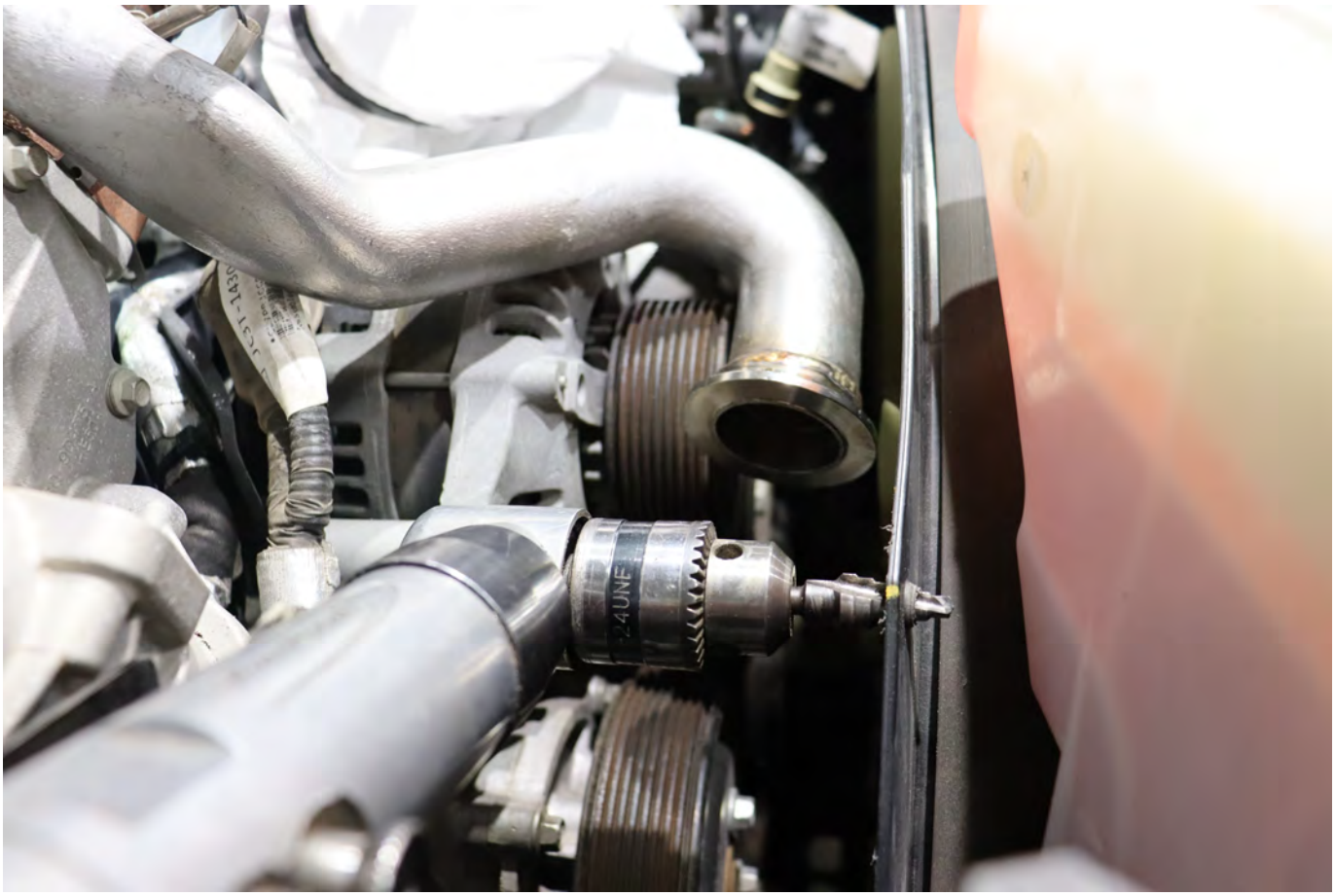
13. Hold the new fan shroud mounting bracket PN. 1719FSB in place being sure to line up the clamp notches on both brackets. MARK THE HOLE LOCATION ON THE FAN SHROUD!





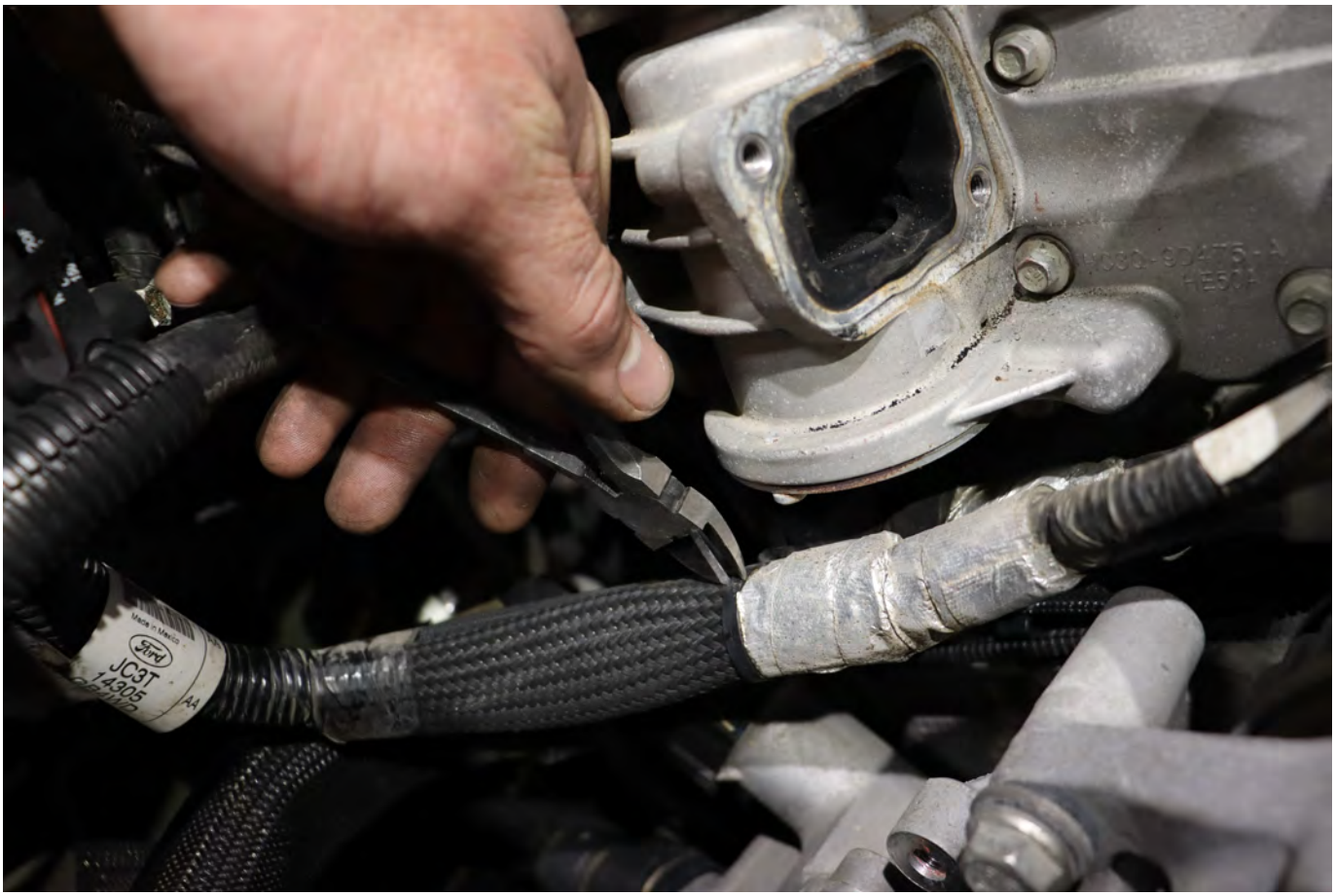
STEP 2:
ASSEMBLY

14. Remove the EGR Filter, outlet tube, and two brackets but leave the inlet tube in place. Carefully drill a 3/8" hole in the marked location on the fan shroud from the previous step using a 90° drill or attachment with a step bit.



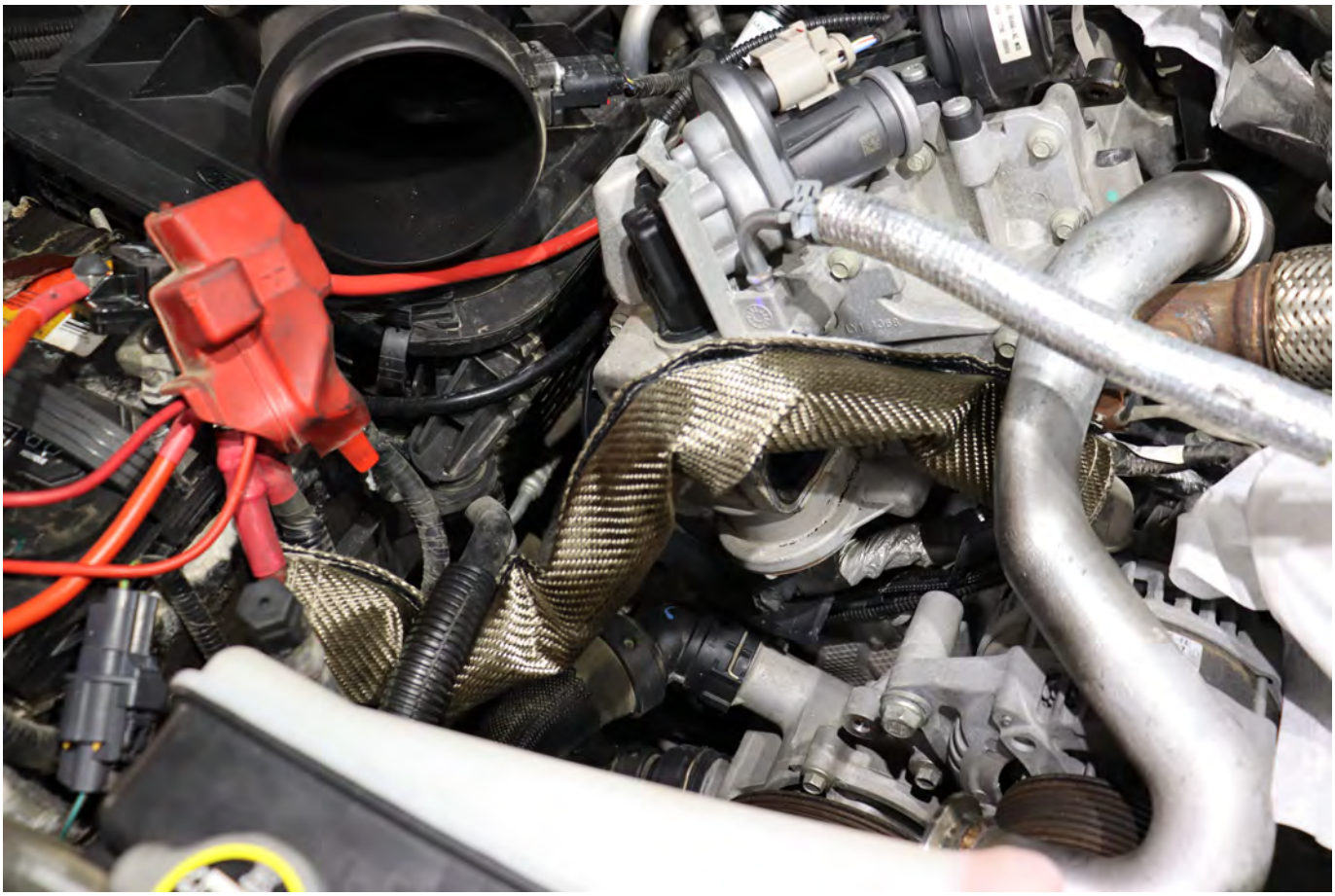
STEP 2: ASSEMBLY

15. Cut the zip tie that is holding the alternator charging cable in place, this will be rerouted.



STEP 2: ASSEMBLY

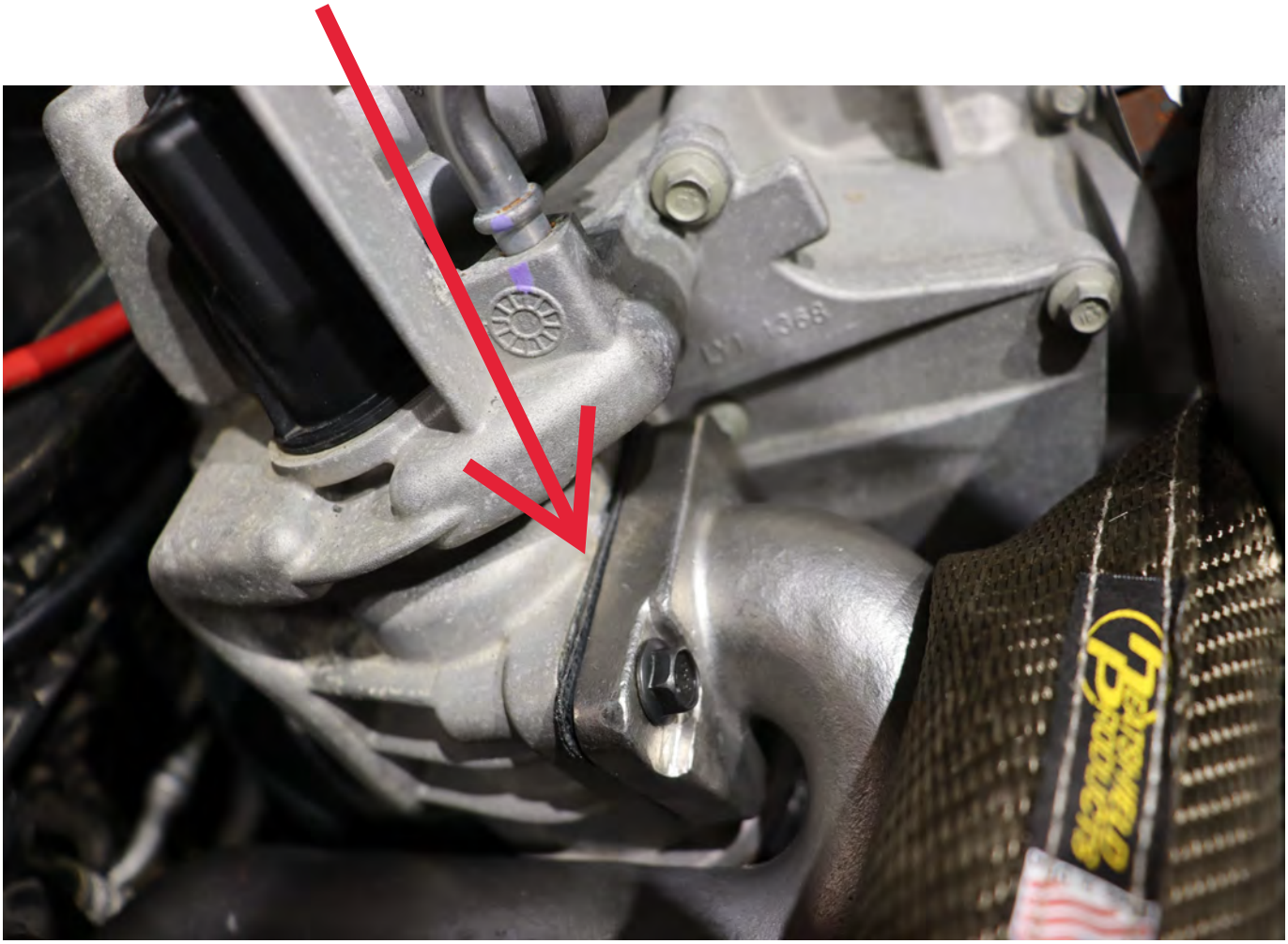
16. Using the supplied heat shield PN. 281121DPP, cover the alternator charging cable and route up towards the top of the engine as shown.



STEP 2:
ASSEMBLY

17. Using the supplied gasket PN. G32662 and M6x25mm bolts, connect the EGR filter outlet tube to the inlet of the EGR cooler but leave the bolts loose.





STEP 2:
ASSEMBLY

18. Connect the EGR Filter inlet to the inlet tube using a supplied v-band, pinch the clamp together and tighten with your fingers. You want the clamp tight enough to keep the male alignment ring seated in the receiving side but loose enough so the clamp will rotate. ROTATE V-BAND SO THE STUD IS FACING UP AND PARALLEL TO THE RADIATOR.



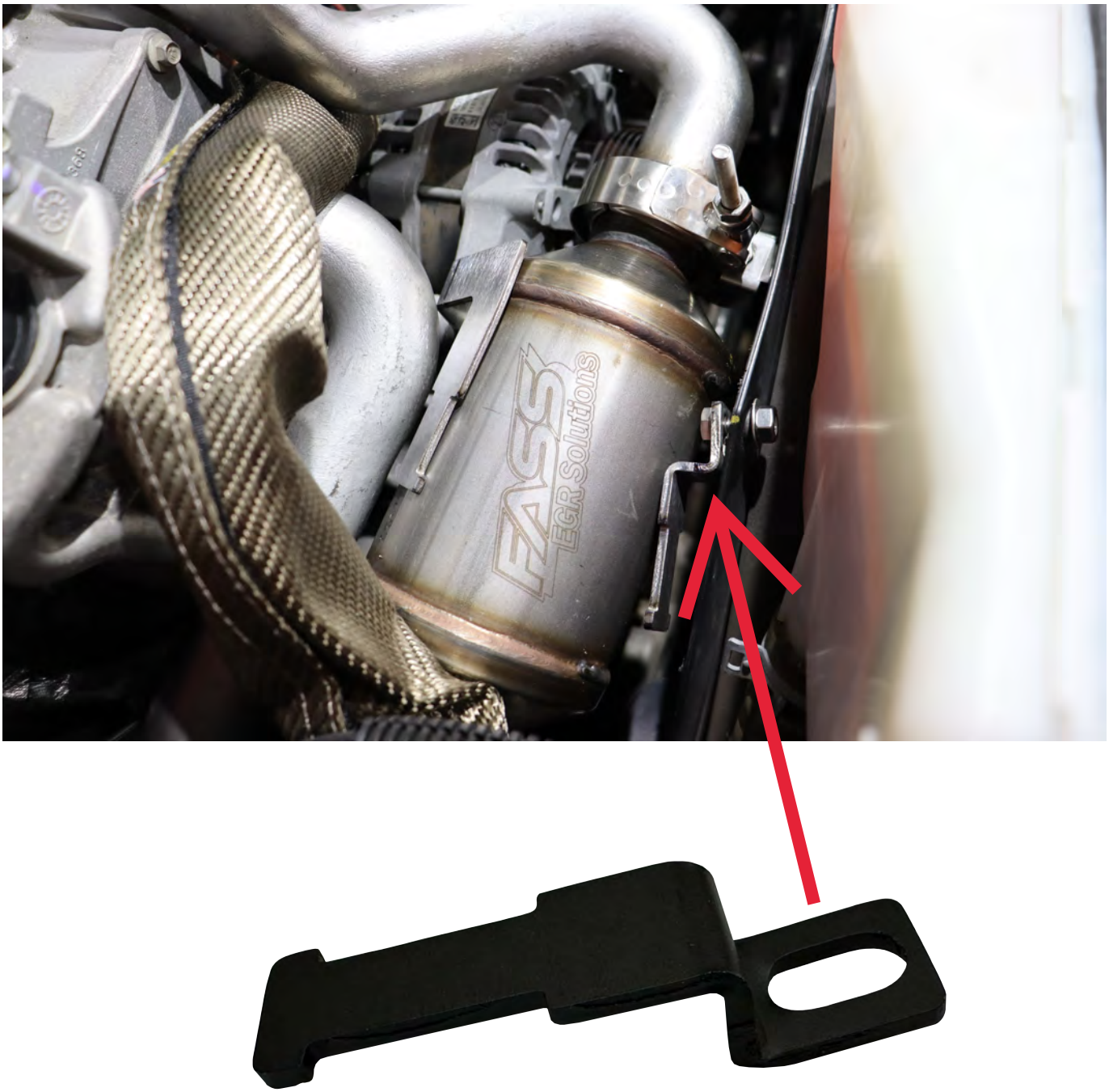
STEP 2:
ASSEMBLY

19. Slide the EGR Filter bracket PN. 1719FFB behind the alternator bolt head and washer, but leave loose.



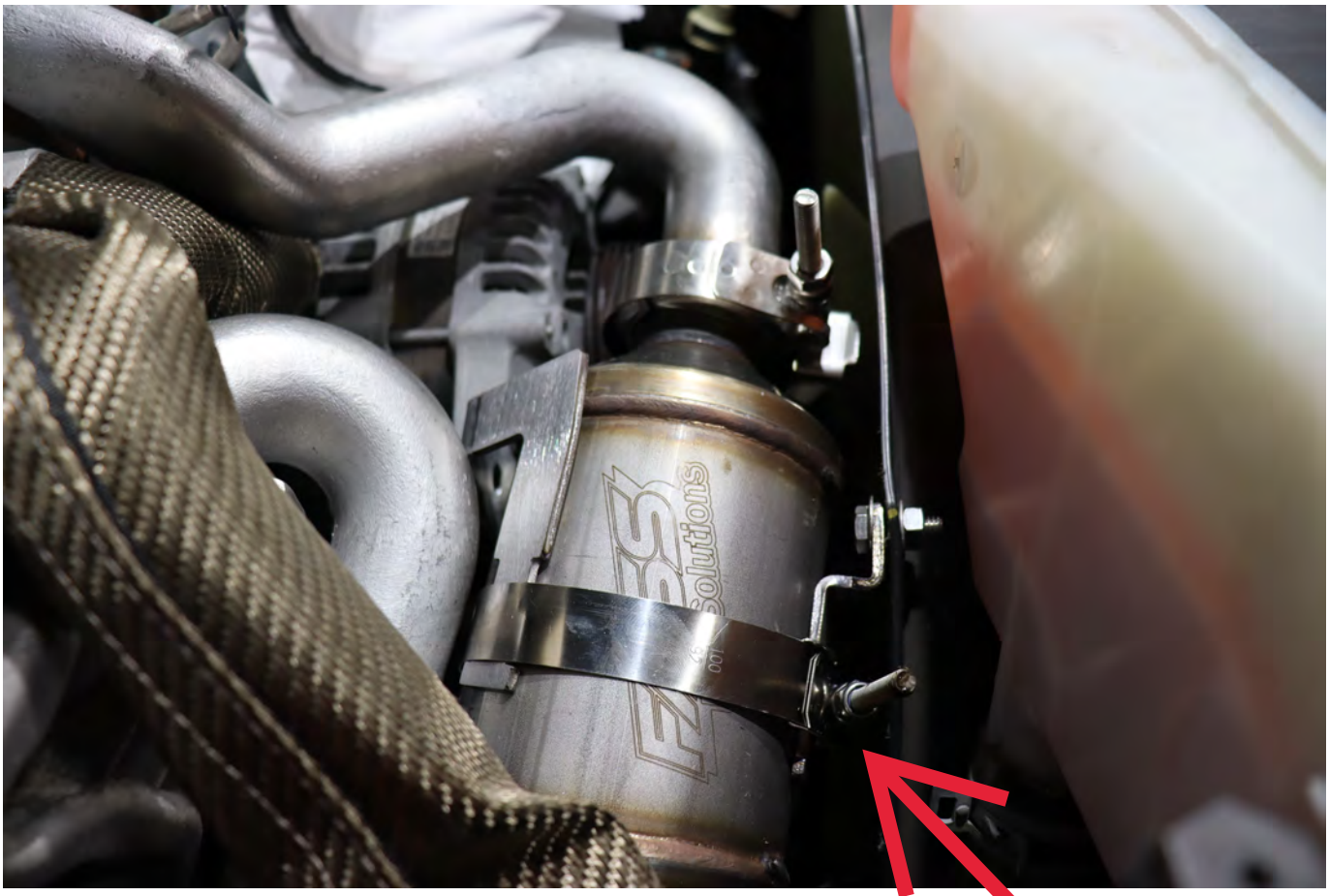
STEP 2:
ASSEMBLY

20. Using the supplied 1/4" bolt, nut, and washers attach the shroud bracket PN. 1719FSB to the fan shroud as shown.



STEP 2:
ASSEMBLY

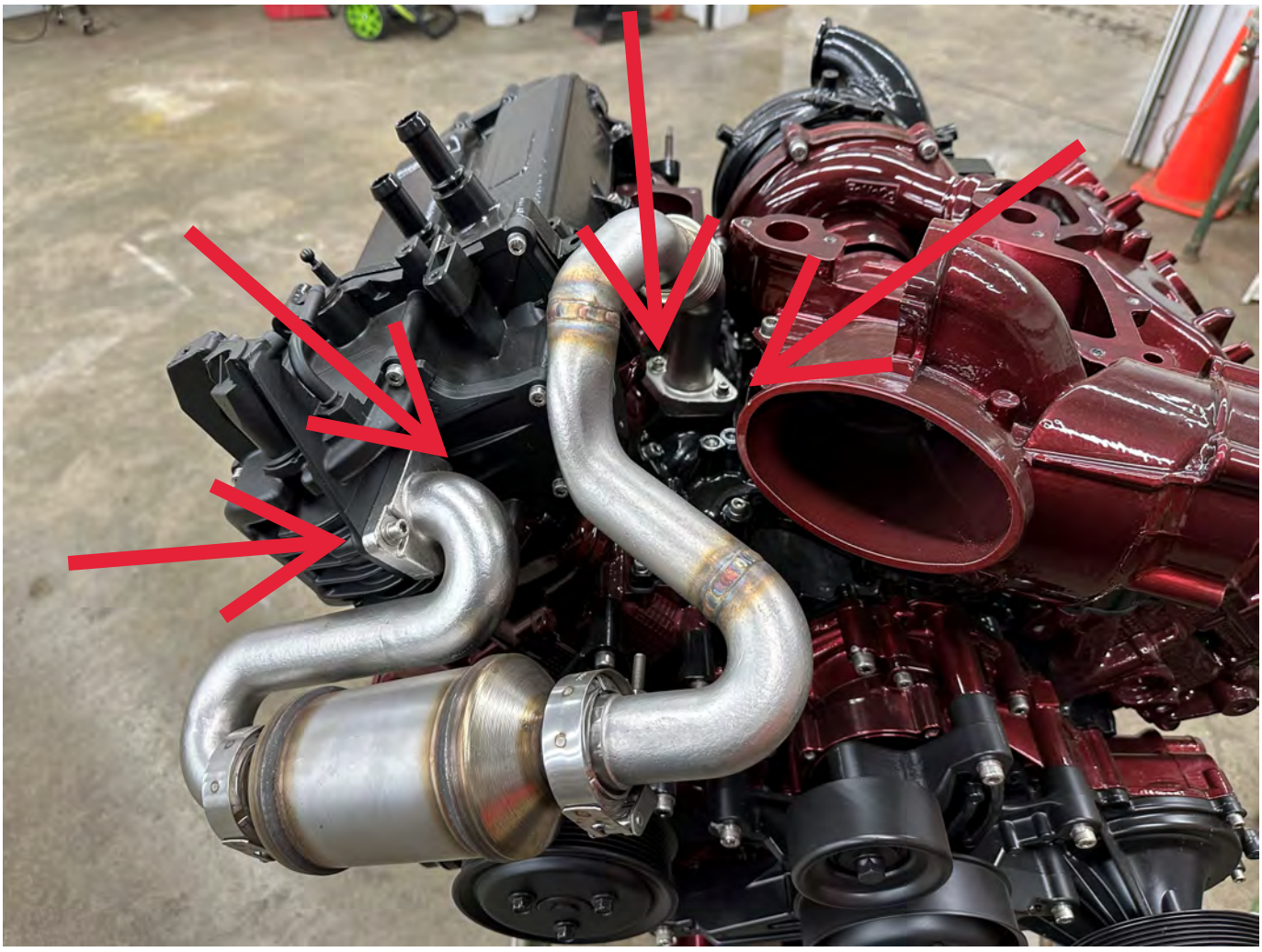
21. Place the supplied t-bolt clamp around the filter and both brackets.





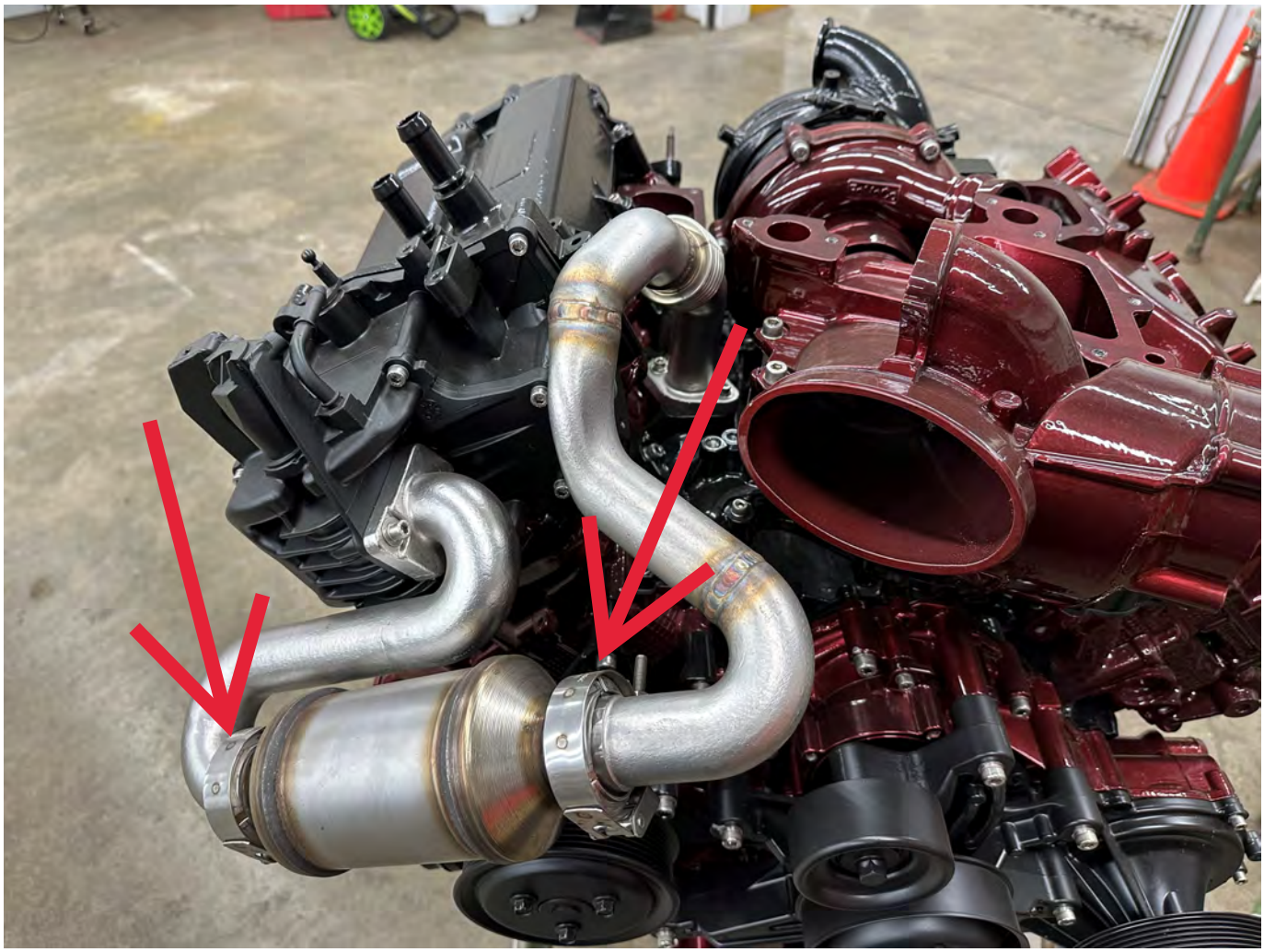
STEP 2:
ASSEMBLY

22. Alternately tighten the four 10mm bolts at each two-bolt flange, starting with the EGR cooler until they are snug.



STEP 2:
ASSEMBLY

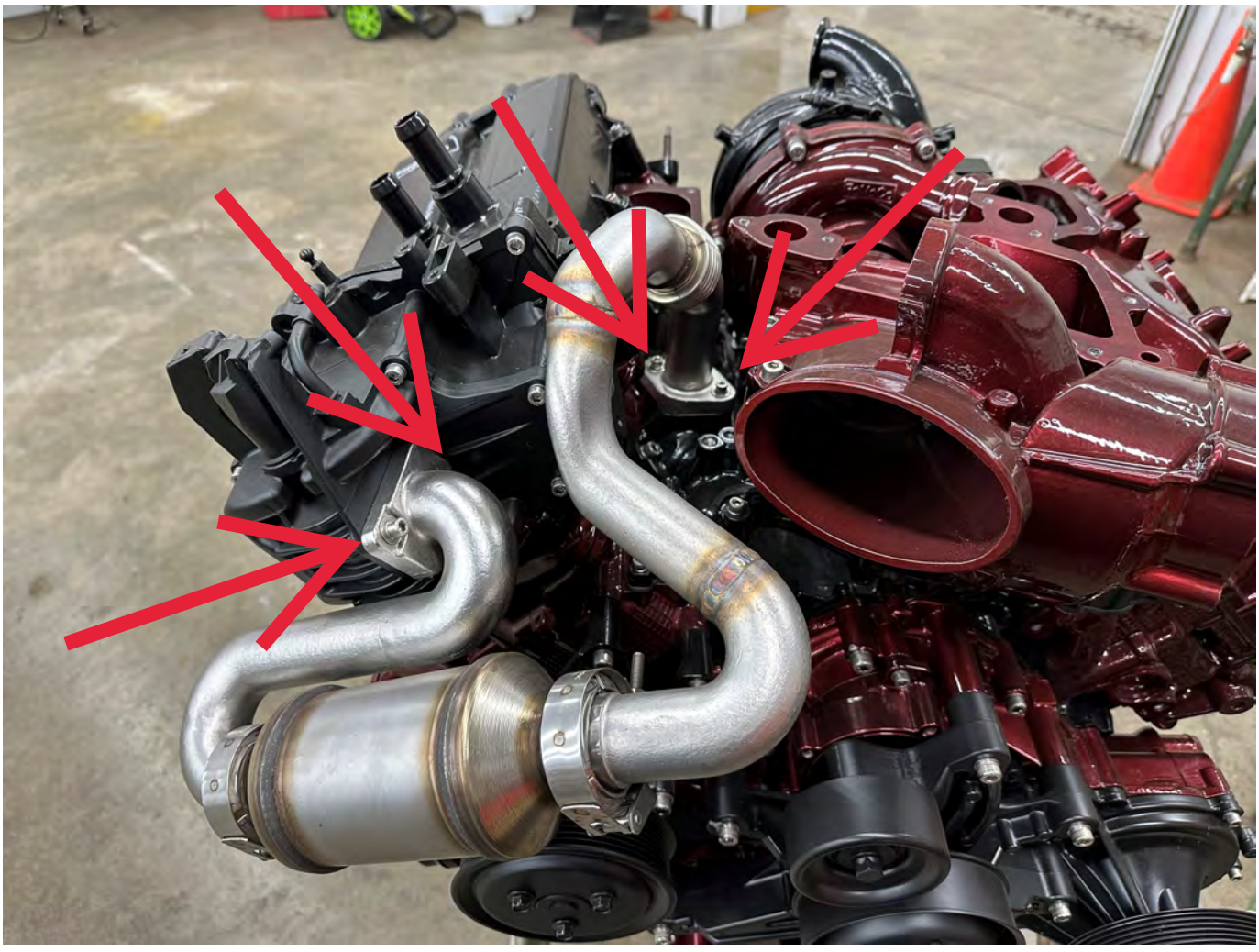
23. Tighten the v-band clamps accordingly. BE SURE BOTH STUDS ARE POINTED UP PARALLEL WITH THE RADIATOR.



STEP 2: ASSEMBLY

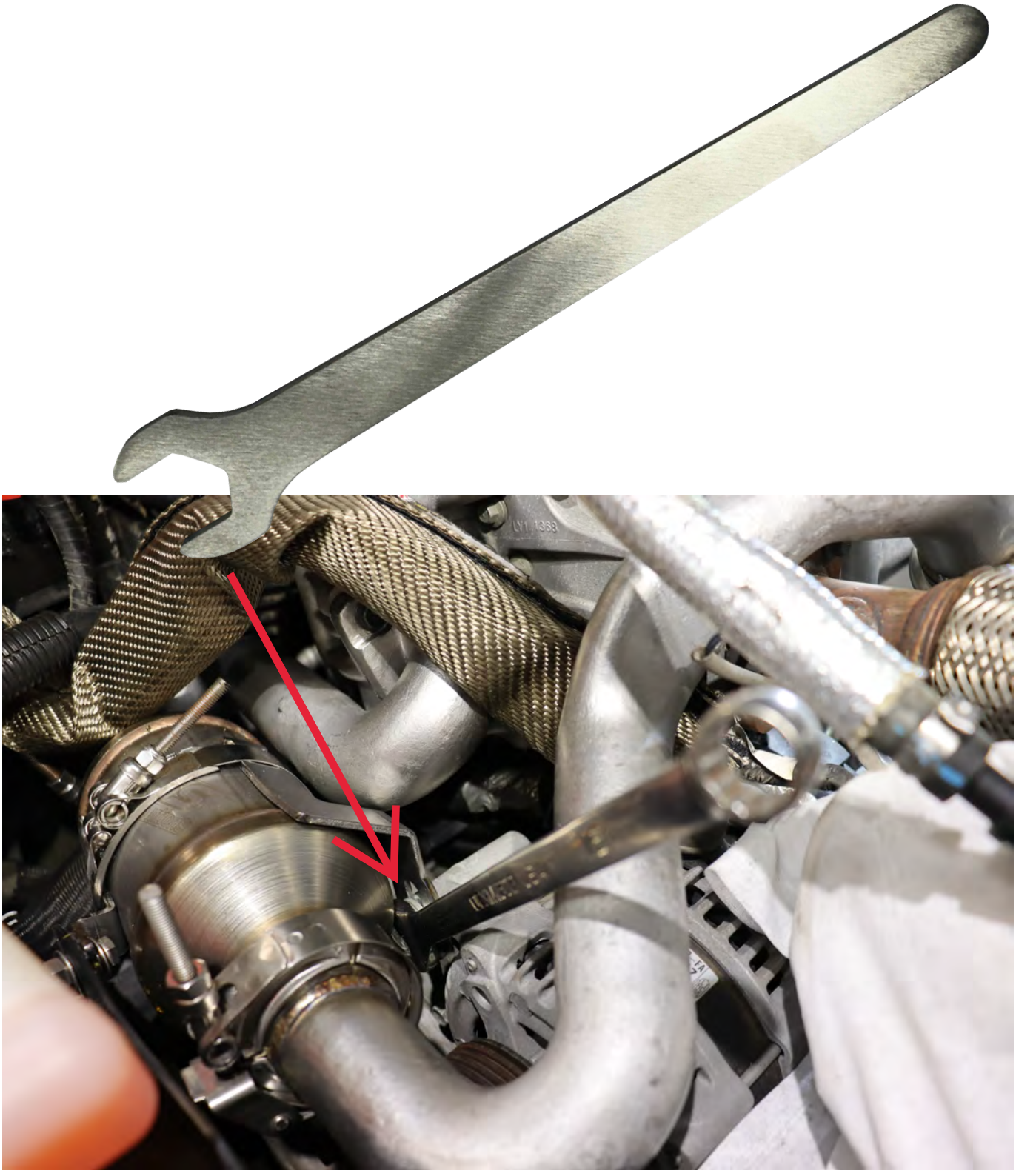
24. Torque the four 10mm flange bolts to 90 in/lbs.





STEP 2:
ASSEMBLY

25. Tighten the 15mm alternator bracket. Use the supplied thin wrench to snug then use an open-end wrench to tighten. Tighten the shroud bolt and the t-bolt clamp.



STEP 2: ASSEMBLY

26. Secure the wrapped alternator cable up and out of the way.



STEP 2:
ASSEMBLY

27. Temporarily install the intake tube to check for the correct placement of the heat reflective tape.



STEP 2:
ASSEMBLY

27. Remove the intake and thoroughly clean the noted location. Apply the reflective tape PN. 340410.





STEP 2:
ASSEMBLY

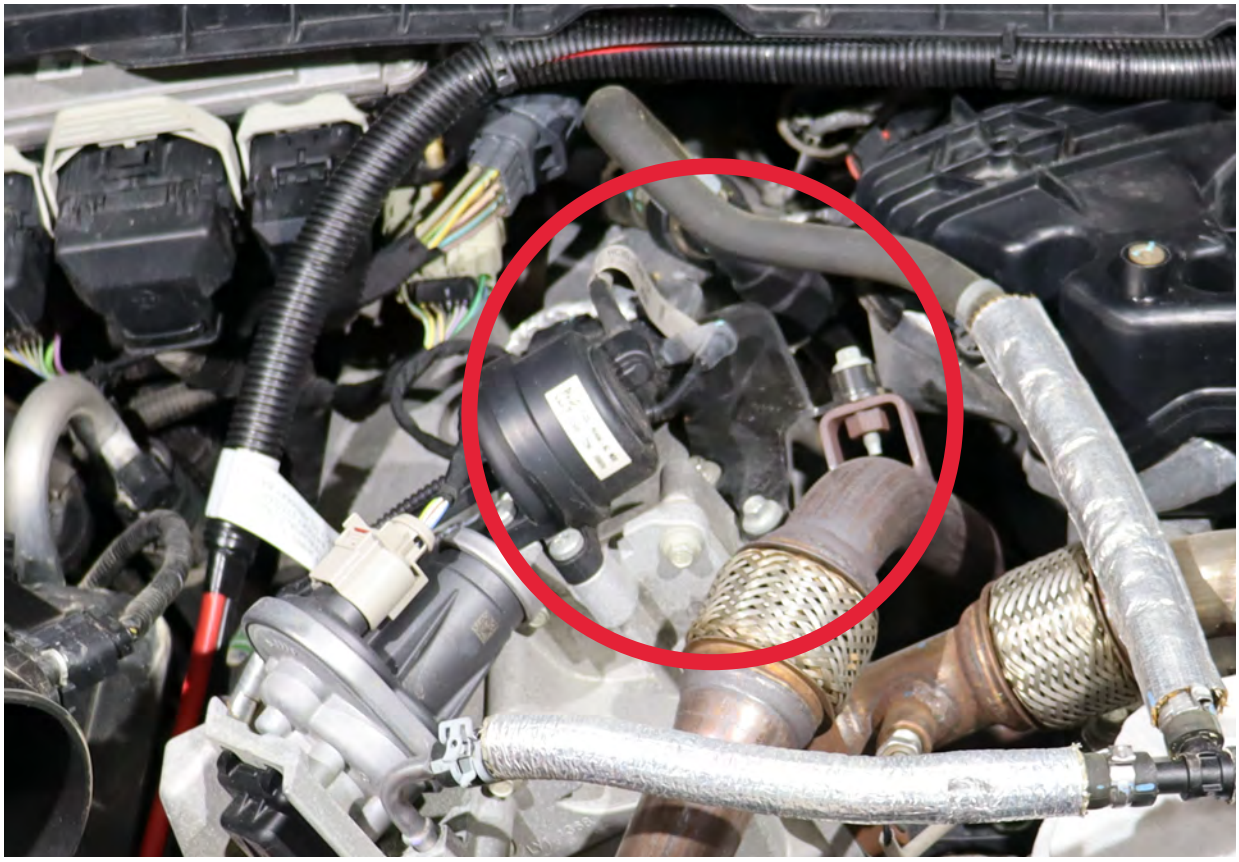
28. Install the intake tube and check for adequate clearance. A cellphone works great to check the underside of the intake, you should have about 1/8-3/16" clearance.



STEP 2:
ASSEMBLY

29. Reinstall the EGR solenoid bracket with the OE bolts.

NOTE: IMAGE BELOW IS FROM BEFORE THE EGR FILTER WAS INSTALLED.



STEP 2:
ASSEMBLY

30. Start the truck and check for leaks. After idling for 10-15 minutes, you can torque the four 10mm bolts at the two flanges to 90 in/lbs again.



LIMITATION OF TWO YEAR 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.FASSegrsolutions.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.

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 PROMPLY 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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