

2014-2018 3.0L ECODIESEL EGR DELETE

Installation Guide

This source manual is image-based. The original instruction pages are preserved below as installation references.



COLD AIR INTAKE KIT

2014-2018 Dodge Ram 1500 Jeep 3.0L EcoDiesel
EGR Valve & Cooler Delete Kit



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PACKING INCLUDE

- | | |
|---|-----------------------|
| 1 X Reducer | 1 X Coolant hose |
| 3 X Clamps | 1 X Block off bracket |
| 1 X Cooler side block off plate | |
| 1 X Turbo manifold block off plate | |
| 1 X Intake manifold side blocker plate | |
| 2 X 10mm bolts | 3 X 10mm bolts |
| 2 X 10mm nuts | 1 X Zip tie |
| 1 X 1/8th NPT nipple for optional boost gauge | |
| 1 X Rubber Vacuum line cap | |



WARNING

CAUTION!!! Never work on a hot vehicle. Serious injury in the form of burns can result if the vehicle has been in use. Allow vehicle to cool prior to installation. Always wear eye protection when working on or under any vehicle.

Note: For your safety we recommend disconnecting any negative battery terminals whenever working on any vehicle. Installation of the Cold Air Intake requires removal of the plumbing to the turbo intake. Use caution not to get any dust, debris, or tools left where they may enter the system.

INSTALLATION NOTES

Note: Note: Prior to installation, please compare the parts that you have received with the bill of materials listed above to ensure that you have all the necessary parts for installation.

Step 1: Remove the injector cover by firmly pulling on each side of the cover to dislodge the locating pins and free the cover from the engine.

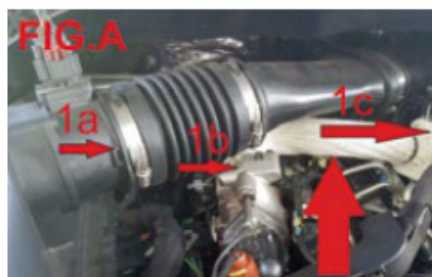
Step 2: Remove the sound absorbing foam pads that are under the injection cover to expose EGR tube (in the white heat wrap)



Step 3: Loosen the clamp on the flexible rubber hose on the air intake tube at the filter side. See **1a in Fig. A** Once the clamp is loose, pull the hose out and away from the filter box. Lift up carefully along the intake tube until you release the ball and socket style joint holding the intake tube in place. With this joint loose you will have enough room to lift the intake tube up enough to easily access the bolts on the EGR tube.

Step 4: Using a socket, remove the two 10mm bolts holding the EGR tube on the cooler side. See **1b in Fig. A** Keep these bolts!

Step 5: Using a socket, remove the two 8mm bolts holding the EGR tube on the intake manifold side. See **1c in Fig. A**



Step 6: With all 4 bolts removed lift up on the EGR tube from the cooler side until it clears and then slide the EGR tube to the passenger side to remove it from the intake manifold.

Step 7: Using the provided 2 x 10mm bolts, Part #H install blocker plate Part #G onto the valve cover port.

Note:The intake side blocker plate comes with a port for mounting an optional boost gauge. If using an additional boost gauge install Part #L If no boost gauge is desired then leave plug in place. If you are doing a phase 2 install then skip ahead to step 11. If you are doing a phase 1 install only then continue with steps 8-10 only.

Step 8: Remove the gasket from the EGR tube on the cooler side by gently pushing on the tabs that go along the sides. Reinstall this gasket onto your cooler side blocker plate Part #E. Using the factory 10mm bolts, install your blocker plate.

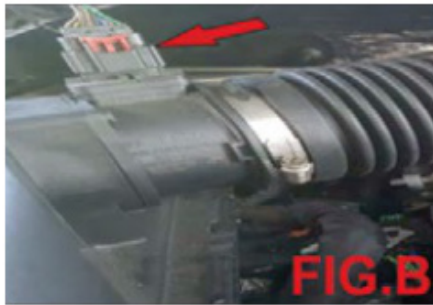
Step 9: Reposition the intake tube and reconnect the ball and socket joint. Reinstall intake tube to the filter box and secure clamp.

Step 10: Reinstall the sound foam and plastic engine cover.

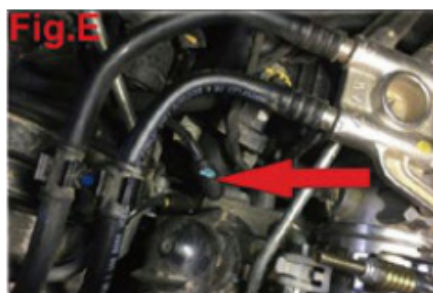
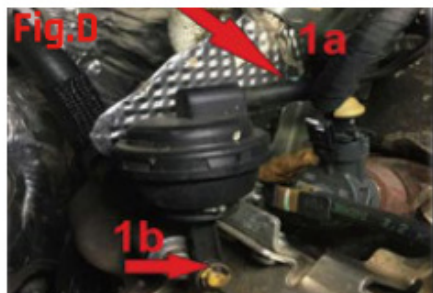
Step 11: A)Removing the air filter, box and intake tube Disconnect the MAF sensor by pulling the red tab out of the connector see **Fig.B**



- B) Remove intake tube from air box. See step 3
- C) Open the 4 clips that hold the lid onto the air box and remove the lid and filter.
- D) Follow the intake tube, removing it from the ball and socket connection as in step 3. Then locate the clamp holding the intake tube to the turbo **Fig C**. Undo the clamp and remove intake from turbo and out of the way.
- E) Locate 2 plastic pins holding a wiring harness between the filter box and the firewall and remove the two pins to free the box of any wires.
- F) pg.8 Remove inner wheel well plastic
- G) Now that your filter box should be free from all connection points, lift straight up off of the locating pins and remove from vehicle.



- Step 12:** A) Disconnect the vacuum line from the EGR actuator. See 1a in **Fig.D**
- B) Follow the vacuum line from the EGR actuator to the solenoid, removing any clips you find along the way. The solenoid is located on the passenger side of the throttle plate assembly. See **Fig.E**
- C) Remove the Vacuum line from the solenoid and cap the end with the cap provided in the kit part #M
- D) Carefully guide the vacuum line out towards the front of the truck to remove it completely

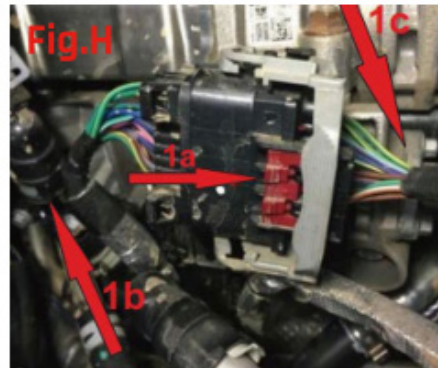
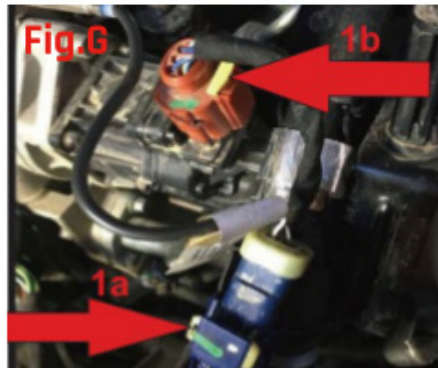




Step 13: A) Remove the E-Clip and washer from the EGR actuator. See 1b on Fig.D DO NOT DROP THE WASHER!!
B) After removing the 2 T-25 bolts from the bracket, pull the actuator off towards the front of the vehicle. See Fig.F



Step 14: A) Disconnect the blue connector. See 1a in Fig.G Disconnect the red connector. See 1b in Fig.G
B) Disconnect the large black connector by carefully pulling the red tabs and then lifting the grey handle separating the plug. See 1a in Fig. H
C) With the plug loose, push the fixed part of the plug towards the ground exposing the 2 clips that hold the plug onto the bracket. Remove the plug and any other clips from the bracket.

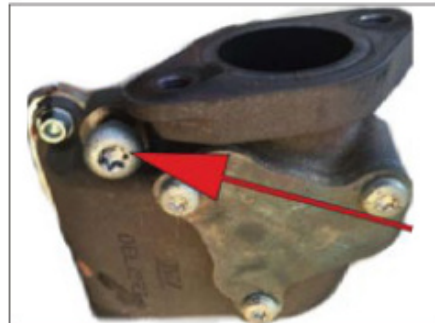


Step 15: A) Open your coolant reservoir cap and then locate the radiator drain plug under the front drivers side. You can use a 16mm wrench to open the drain but be very careful not to break the plastic plug itself. see Fig.I
B) Drain about 1 gallon of coolant or until it begins to drip slowly. Re-tighten and secure the plug.
C) Locate the two 10mm bolts that hold the rear coolant hose on the body of the EGR. See 1b in Fig.H Start by using pliers to grab the clip holding the top side hose and slide the clip back to free the hose from the coupler. Remove the (2) bolts. **Note: some coolant will drain from the hose and EGR.**
D) Locate the front coolant line. See 1c in Fig.H Remove the 2 8mm bolts. Do NOT loose the gasket as it will be reused.



Step 16: Locate the EGR up pipe directly behind the EGR actuator removed in step #13, Fig.F and remove the 2 10mm bolts that connect the tube to the EGR unit.

Step 17: Locate and remove the T-40 Torx bolt just under the flange bolts you took out of the EGR up pipe in the previous step. See Fig.J Note: This bolt can be tough to get.



Step 18: Locate and remove the 3 13mm bolts from the black, lower support bracket. See Fig.K Locate and remove the 3 13mm bolts from the black, lower support bracket. See Fig.K





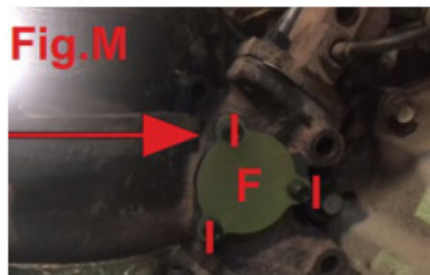
Step 19: Remove the (3) 13mm bolts holding the lower EGR cooler manifold in place. The right and left bolts will be reused to bolt on bracket part #C later. See Fig.L



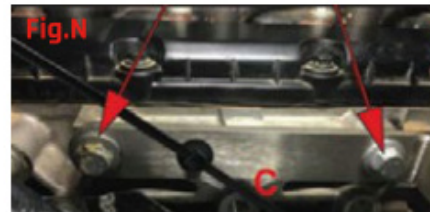
Step 20: Going back to the lower side coolant hose that you left attached to the coupler in part C of step 15. Again using pliers loosen the clamp holding the rubber hose to the hard coolant line and slide clamp so that the rubber hose can be removed completely. This hose will be replaced with the provided hose part #B

Step 21: Go back to the EGR up pipe from step #16 and trace it down to the turbo manifold. Locate and remove the (3) 8mm bolts holding the lower flange in place. Note: These bolts will be replaced with the provided part #I. This gasket will be reused.

Step 22: Using the supplied bolts part #I, and the factory gasket, install the turbo manifold plate part #F See Fig.M



Step 23: Using (2) 13 mm bolts from the turbo manifold in step #19, mount the supplied blocker/mounting plate part #C using the same holes the bolts came out of. See Fig.N



Step 24: Reusing the (2) 8mm bolts and the included (2) 10mm nuts and washers part #J, fasten the Front Coolant line (see 1c from Fig.H in step #14) to the block off bracket from step #23. see Fig.O





Step 25: Go back to where you removed the lower coolant line in step #15 from the hard line and using one of the provided hose clamps, fasten the supplied hose, part #B to the hard line.

Step 26: Now locate the upper coolant line and put one of the supplied hose clamps on the end. Then using part #A, connect the upper and lower lines and secure clamps. see Fig.P



Step 27: Secure the coolant hose to the new bracket from step #23 with provided zip tie.

Step 28: Reattach the large electrical connector to the new bracket. Tie any left over wiring to the bracket to ensure it cannot be damaged. See Fig.Q



Step 29: Double check that all bolts, clamps and fittings are tight and secure.

Step 30: Working backwards, re-install your air filter box, intake tube, sound foam and plastic engine cover.

Step 31: Start your engine and check for coolant leaks.



Technical Support: email us service@spelabautoparts.com
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