



EC64

INSTALLATION MANUAL

FLO~PRO
PERFORMANCE EXHAUST

WARNING

Installation of this kit can take up to 6 hours, please read and understand all instructions before continuing on to the next step. A good mechanical background is recommended. Tech Support is unavailable as this was not designed by FLO~PRO.

**This product is intended
for OFF ROAD USE ONLY.**

6.4L EGR Delete With Intake Elbow



PACKING LIST:

<u>Part#</u>	<u>QTY.</u>	<u>Description</u>
A	1	Exhaust Block-Off Plate
B	1	Exhaust Gasket
C	2	Coolant Line Plugs
D	1	Brass Barbed Hose Connector
E	1	Stand-O Spacer
F	4	M10-1.25 x 40 Hex Head Bolts (Exhaust Manifold)
G	2	M10-1.25 x 20 Hex Head Bolts
H	4	M6-1.25 x 25 Flanged Hex Head Bolts
I	2	Plastic Hose Routing Clips
J	1	Intake Elbow

Read all instructions prior to install.

Note: Prior to installation, please compare the parts that you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation.



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

Note: With a used vehicle, we suggest using a penetrating spray lubricant to be applied liberally to all exhaust fasteners. When doing so allow a significant amount of time for the chemical to lubricate the threads before attempting to disassemble.

Step 1: Make sure the front wheels are straight.

Step 2: Disconnect both batteries.

Step 3: Drain the coolant using the coolant drain plug located on the bottom of the radiator on the driver side. (Image 1)

Step 4: Remove the 3/8" hose that runs to the degas bottle (coolant overflow tank). Keep this hose as it will be re-used during installation. (Image 2)

Step 5: Remove the upper radiator hose by popping the wire clip out and pulling the hose straight out. (Image 3)

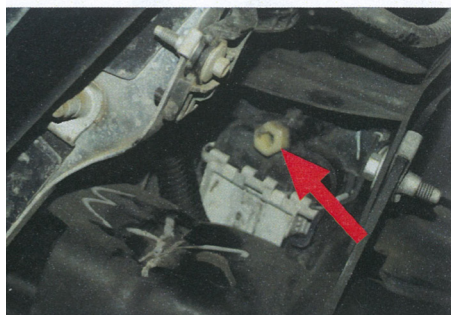


Image 1

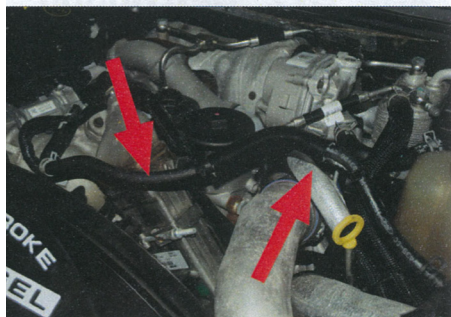


Image 2

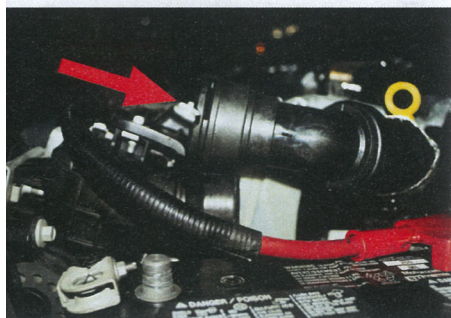


Image 3

Step 6: Remove the driver side battery.

Step 7: Remove all of the coolant hoses going to the degas bottle. Also, remove the vent line going to the battery tray.

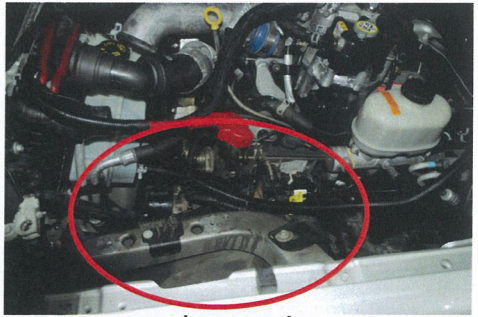


Image 4

Step 8: Remove the battery tray and degas bottle. This is held on by four bolts.

(Image 4 -shows parts removed)

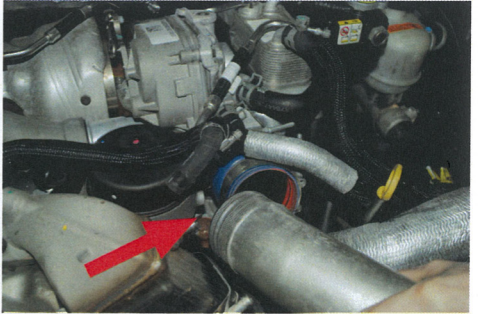


Image 5

Step 9: Loosen the clamp on driver side intercooler tube and separate the intercooler tube from the rubber boot. It is not necessary to remove the tube.
(Image 5)

Step 10: Disconnect the electrical connector on top of the vertical EGR cooler.
(Image 6)



Image 6

Step 11: Disconnect the coolant lines on the vertical EGR cooler. Remove the nuts and bolts securing the coolers together. Release the mounting clamps and separate the two coolers by prying on the flanges.
(Image 7)

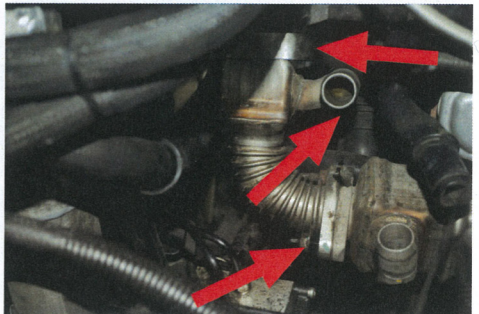


Image 7

Step 12: Hold the intercooler tube back while pulling the vertical EGR cooler up and out. You may have to rotate the cooler to release it from its mount. (Image 8)



Image 8

Step 13: Remove the plastic coolant tube. Be careful to not break the coolant tube as it will be re-used during installation. (Image 9)



Image 9

Step 14: Remove the upper radiator hose from the thermostat housing. If your radiator hose has a single O-ring it is a good idea to replace it with a new double O-ring version. (Shown In Image 10)



Image 10

Step 15: Remove the upper EGR cooler mount. Use a 10mm wrench to remove the three bolts. Use a 13mm wrench to remove the stud. Keep the stud for securing the power steering line during the install. (Image 11)



Image 11

Step 16: Remove the steering shaft bolt and slide the stem up and out of the steering box shaft. **Note:** Be sure to not turn the steering wheel or tires. (Image 12)

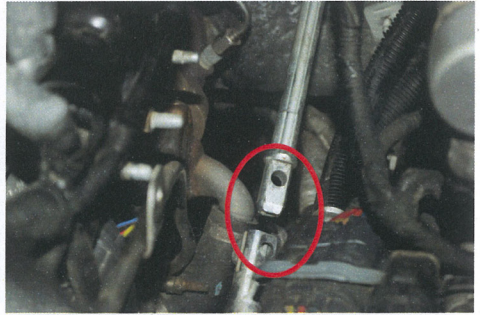


Image 12

Step 17: Remove the nut that secures the dipstick tube in place. (Image 13)

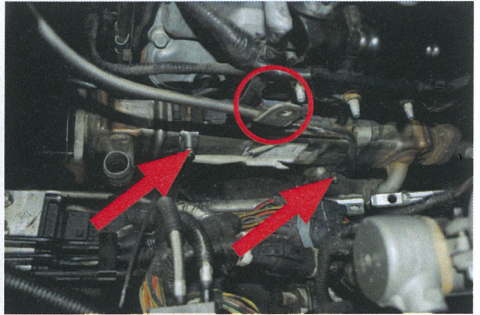


Image 13

Step 18: Release the mounting clamps on the lower EGR cooler. It may be easier to access the clamps through the wheel well. (Image 13)

Step 19: Remove the coolant line on the EGR Cooler. It may be easier to cut the line. **Note:** The line will not be re-used. (Image 14)

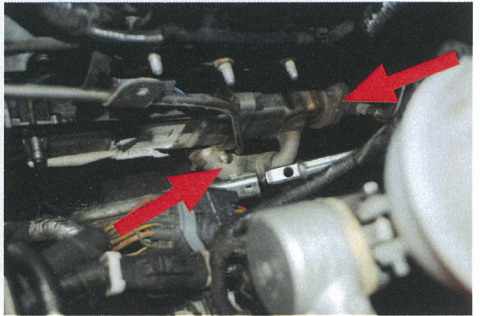


Image 14

Step 20: Remove the bolts on the rear angle of the EGR cooler. It is easier to access the bottom bolt from underneath the truck and the top bolt from above. (Image 14)

Step 21: With the dipstick moved out of the way, remove the EGR cooler by pulling forward and rotating it out of its mount.

Step 22: Remove the bolt securing the coolant line to the timing cover. This line is attached to the lower EGR cooler mount and will be removed as one piece.

(Image 15)

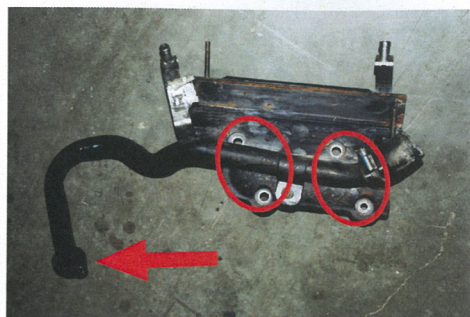


Image 15

Step 23: Use a 10mm wrench to remove the four bolts on the lower EGR cooler mount.

(Circled In Image 15)

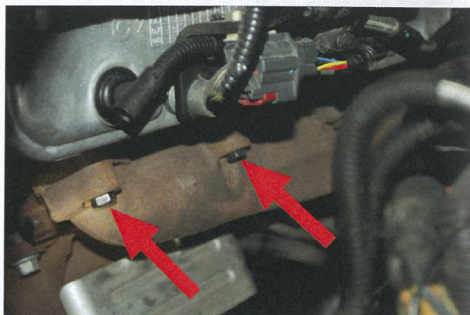


Image 16

Step 24: Install the four replacement bolts (M10-1.25 x 40) in the exhaust manifold and torque to factory specifications.



Image 17

Step 25: Install the exhaust block off using M10-1.125 x 20 bolts and gasket.

Step 26: Remount the dipstick tube with the factory bolt.

Step 27: Remove the coolant tube that was connected from the vertical EGR cooler to the engine. Replace it with the coolant plug supplied in the kit to block o the hole.

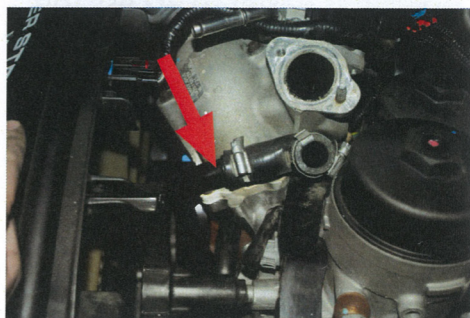


Image 18

Step 28: Install the coolant plug included in the Flo-Pro EGR delete kit. Use the factory bolts that secured the lines in place. (Image 19)

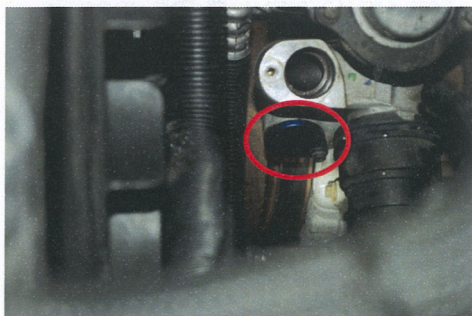


Image 19

Step 29: Use 13mm wrench to Re-install the stud using the spacer provided in the EGR delete kit. Then secure the power steering line to the stud. (image 20)

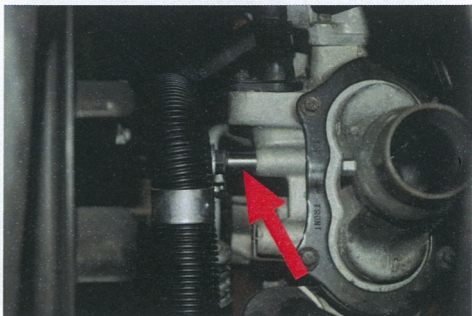


Image 20

Step 30: Re-install the plastic coolant tube. Be careful not to crack or break it. (Image 21)



Image 21

Step 31: Re-connect the steering shaft and torque to the factory specifications.

Step 32: Re-install the battery box and degas bottle.

Step 33: Re-connect the coolant lines to the degas bottle. Also re-connect the vent line to the battery box.

Step 34: *Clean the end of the silicone boot and intercooler tube with glass cleaner.*
Reconnect the intercooler tube.

Step 35: Re-connect the upper radiator hose and make sure the metal clips are securely in place.

Step 36: Disconnect the wire connectors to the EGR valve.
(Image 22)

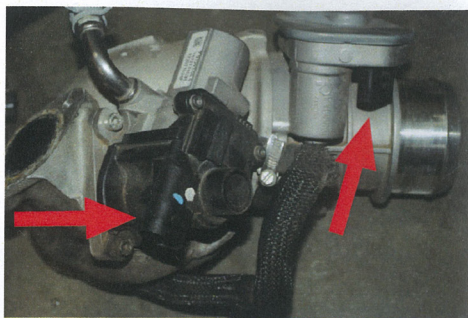


Image 22

Step 37: Remove four bolts and loosen hose clamp on the intercooler plumbing to remove the EGR valve. (Image 23)

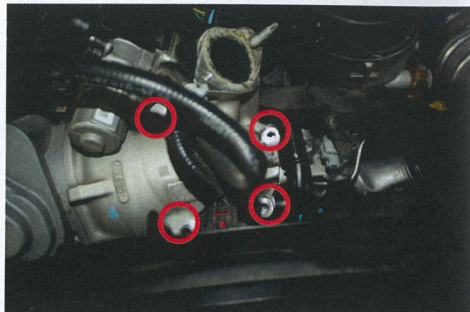


Image 23

Step 38: Install the intake elbow by sliding the tube into the boot. Using supplied M6-1.25 x 25 bolts secure the ange to the intake manifold. (Image 24)

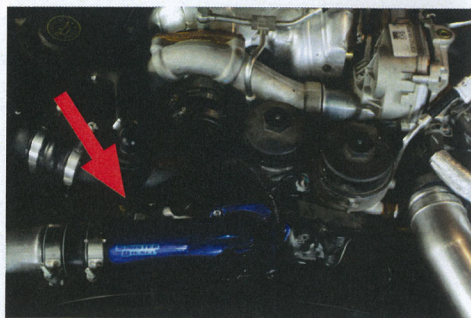


Image 24

Step 39: Use the 3/8" hose that was saved from step four and barbed hose connection from the kit to re-connect the coolant line running over the radiator to the degas bottle. The line will have to be cut to appropriate length. Reuse factory hose clamps on the connections.
(Image 25)

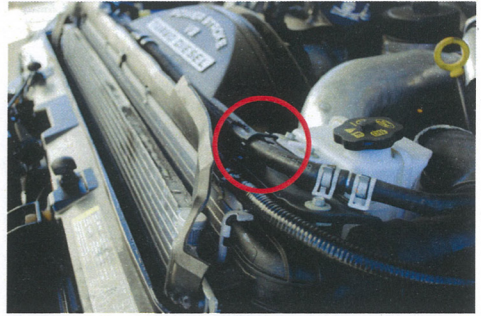


Image 25

Step 40: Secure the coolant line over the radiator with the plastic hose routing clips. *(Image 26)*

Step 41: Rell the coolant according to factory specifications.

Step 42: Run engine and check for leaks.



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