



EGR Delete Kit

For 2003-2007 6.0L Powerstroke

Installation Manual



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cs@enginego.com

Installation Tip

We suggest applying a generous amount of rust penetrant to all exhaust fasteners beforehand to make disassembly of the exhaust components easier. (Step 17)

STEP 1

Disconnect the batteries.



STEP 2

Drain the coolant.



STEP 3

Remove the clips securing the plastic wire harness above the turbo. Fold the harness toward the windshield and secure it with a plastic zip tie for retention.



STEP 4

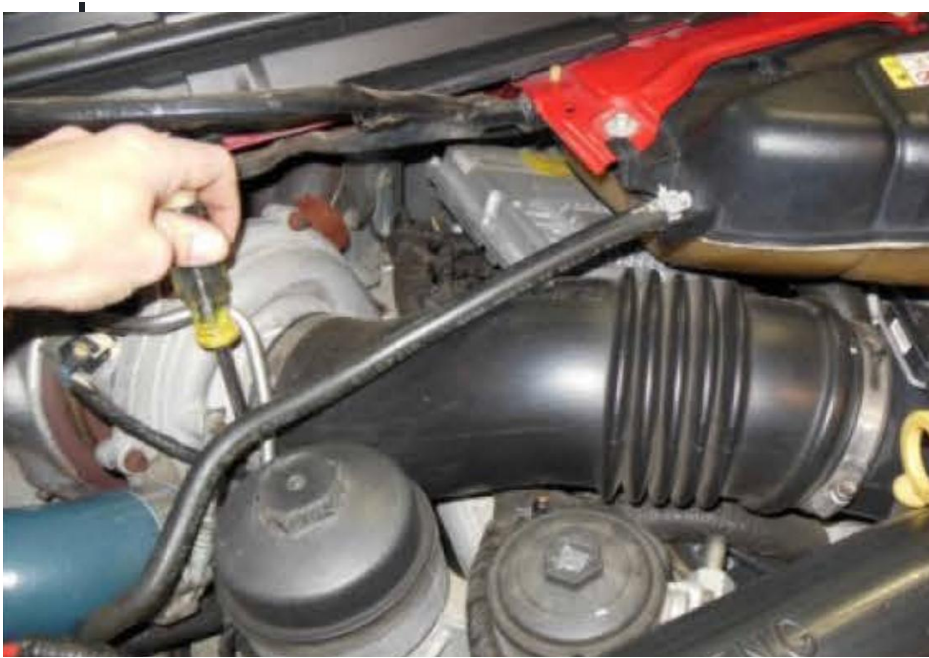
Remove the upper fan shroud by prying it away from the radiator through the slots.

! *Note: The plastic can be very brittle, so handle with care.*



STEP 5

Loosen the hose clamps and remove the intake tube. Then, unscrew the bolts to remove the turbo inlet tube and the PCV



STEP 6

Unbolt the alternator and disconnect the wires. Tilt the alternator toward the front of the vehicle.

! *Note: It is not necessary to loosen the belt tensioner.*



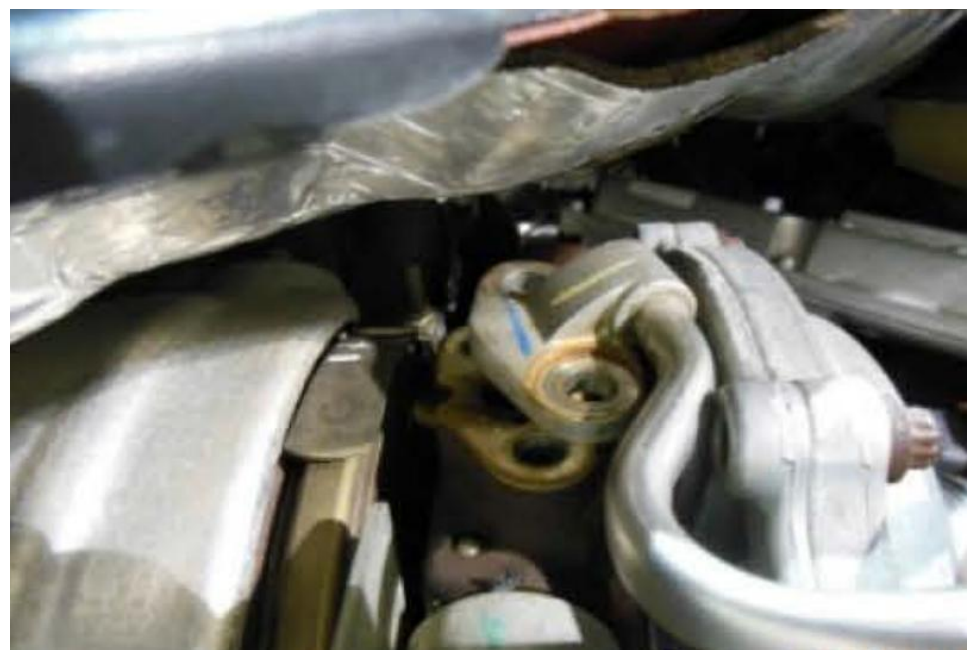
STEP 7

Remove the Turbo. Remove the following components:

(1) Intercooler pipe



(2) Oil feed line from the oil cooler to the turbo (3 bolts)



(3) VGT actuator harness plug

(4) Up-pipe V-band clamp



(5) Turbo V-band clamp (downpipe)



(6) Turbo mounting bolts (3 bolts; see Step 9 for turbo mounting bolt locations)

STEP 8

Once these parts are removed, the turbo can be rotated toward the passenger side of the truck and lifted out of the pedestal.



STEP 9

Remove the oil drain tube from the High Pressure Oil Pump housing. Then, remove the turbo mounting pedestal.

! *Note: On early 2003–2004 models, the pedestal design may differ.*



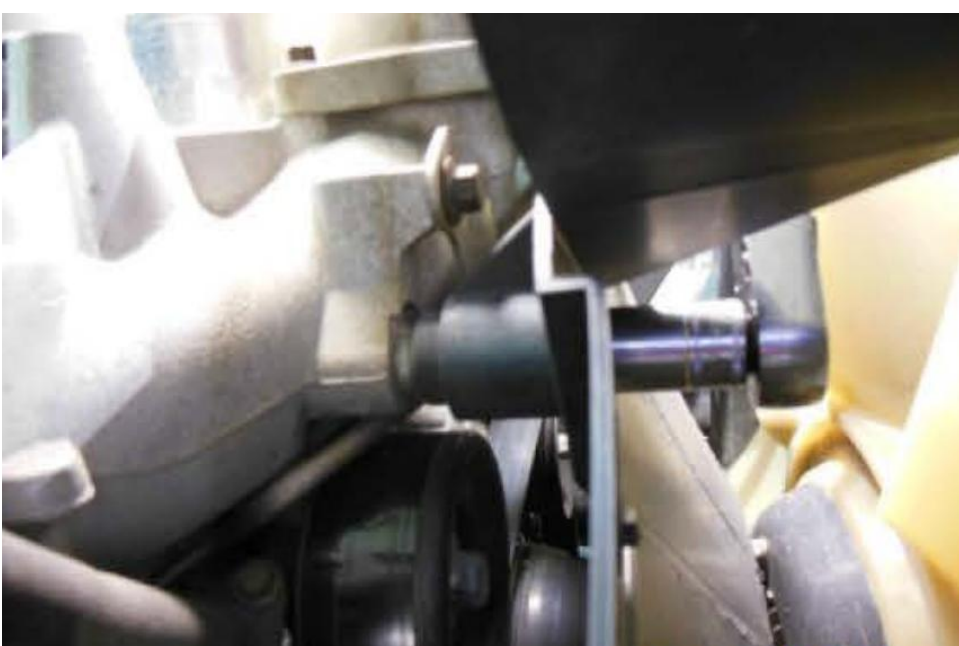
STEP 10

Remove the EGR cooler V-band clamp from the up-pipe.



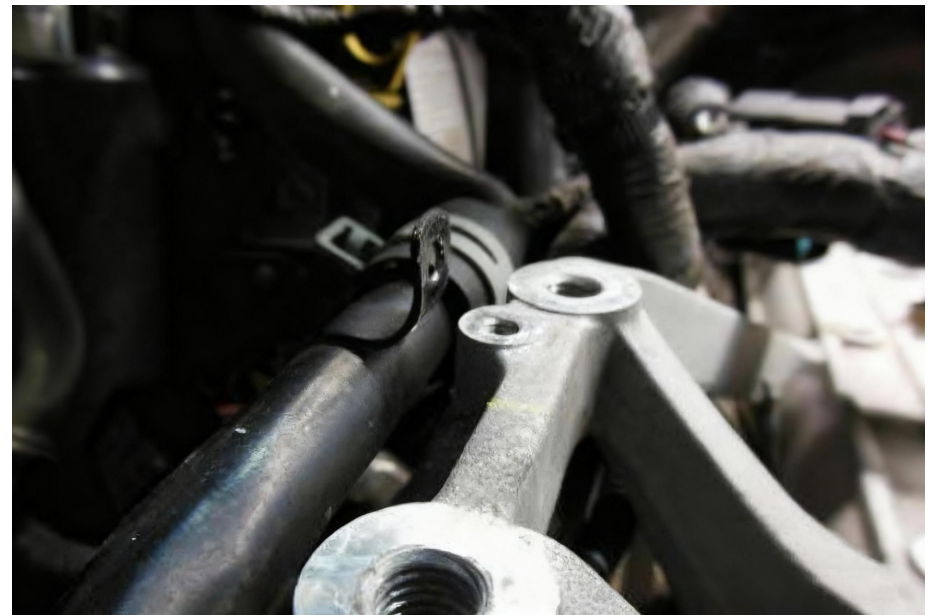
STEP 11

Loosen the intake manifold bolts on the driver's side. Completely remove the intake manifold bolts on the passenger side, noting their locations on a piece of cardboard. Remove the two bolts that pass through the inner fan stator into the intake manifold (located under the shroud).



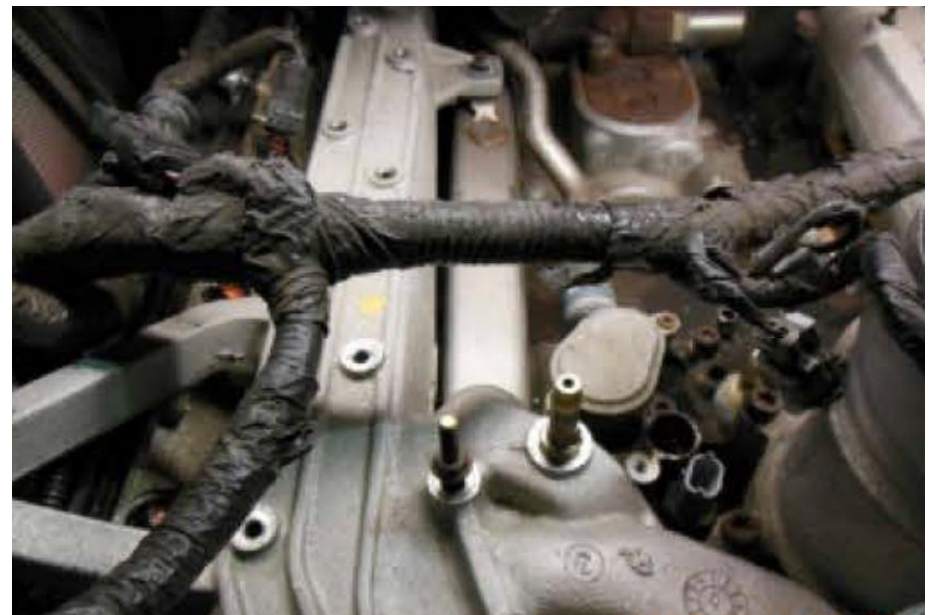
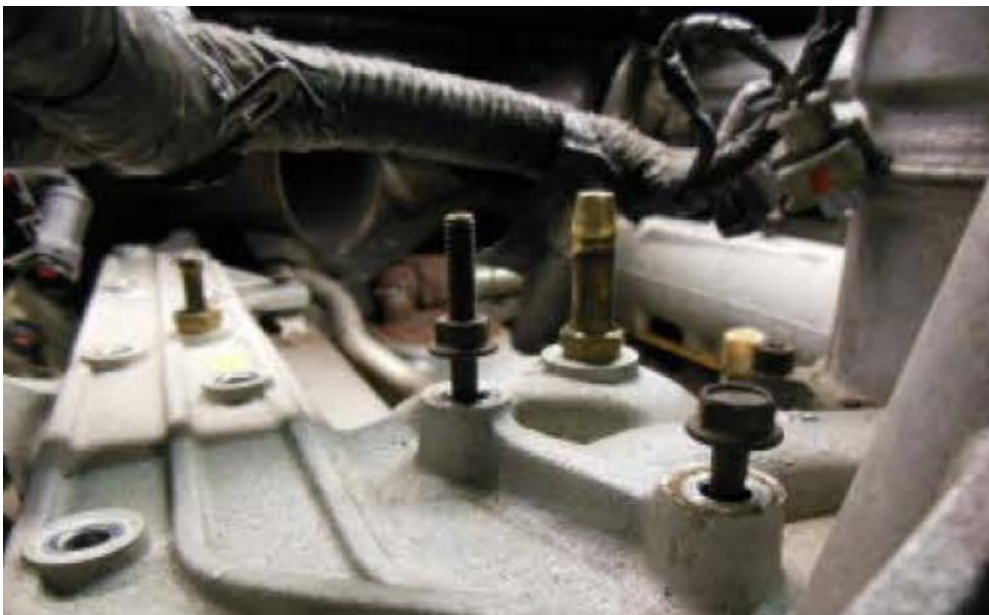
STEP 12

Remove the bolt that secures the heater tube to the manifold (located below the alternator). Bend the tab upward.



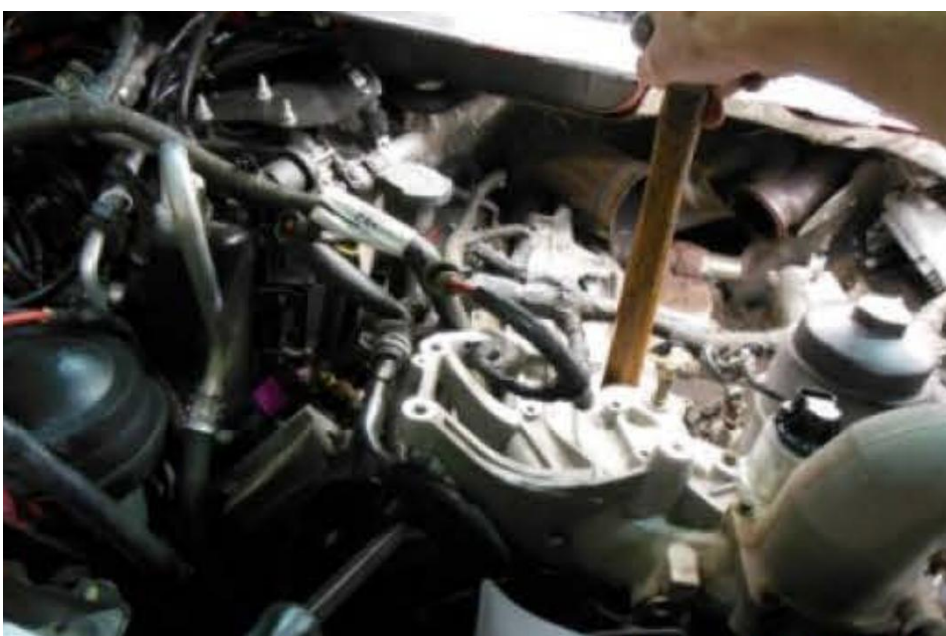
STEP 13

Remove the mounting bolts of the EGR cooler.



STEP 14

Lightly push down on the EGR cooler while lifting the intake manifold to disengage it from the manifold.



STEP 15

While holding the intake manifold up with a small pry bar, move the EGR cooler toward the back of the engine. Continue to hold the manifold up, then lift and remove the cooler through the front of the engine. Make sure all gaskets and O-rings are removed along with the cooler.



STEP 16

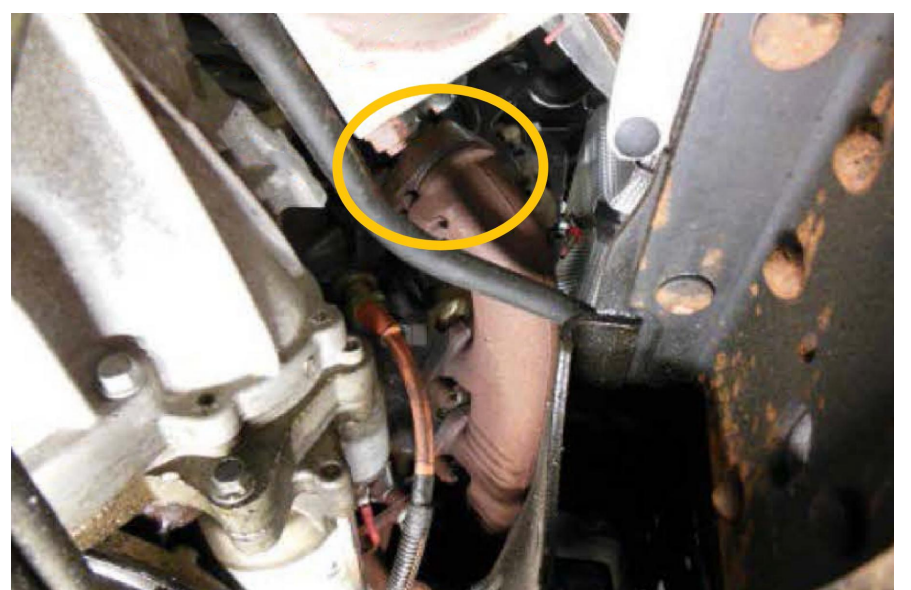
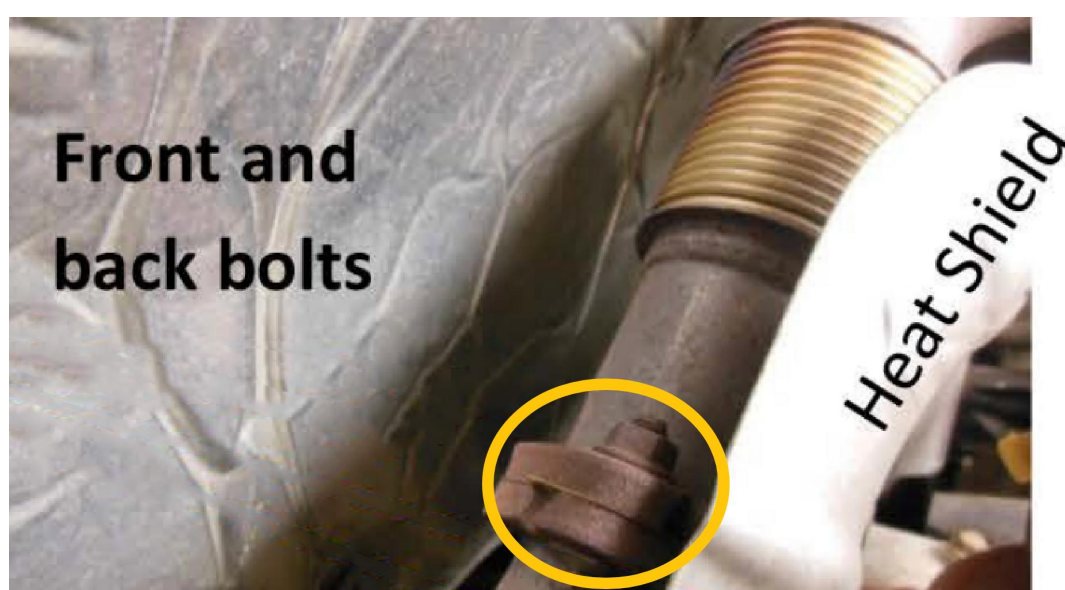
Replace the intake manifold bolts and torque them to 120 in-lbs.



If the kit you purchased does **not** include an up-pipe, skip to Step 19.

Apply rust penetrant at the following locations.

***Note:** Some applications may require the heat shield to be removed or bent forward to access these bolts.*



STEP 17

Remove the factory up-pipe: From underneath the passenger side of the truck, remove the two bolts securing the up-pipe to the exhaust manifold. Once the lower bolts are removed, move to the top side of the engine and loosen, then remove, the bolts from the factory up-pipe located behind the heat shield.

STEP 18

Install the EGR delete up-pipe using the new gasket provided and the supplied hardware. (Ensure the gasket is positioned on the top side.)

 **Note:** *This view is provided for out-of-vehicle reference only. Removal of the exhaust manifolds is **NOT** required for installing the up-pipe.*



STEP 19

Install the 3/4" silicone hose onto the provided 3/4" 180-degree stainless steel coolant tube. Loosely secure it with the hose clamps.

STEP 20

Grease the EGR cooler adapter O-ring and place it into the intake manifold. Finger-tighten the two longer factory cooler mounting bolts. The third, smaller bolt can be discarded.



STEP 21

Tighten the billet adapter bolts to 120 in-lbs. While tightening, ensure the O-ring stays in place and the alignment is correct. Do not over-torque the bolts. Slide the hose over the oil cooler nipple and snugly tighten both hose clamps.

STEP 22

Remove the factory EGR valve from the intake manifold and install the block-off plate. Use the existing bolts and torque them to 120 in-lbs.

STEP 23

Reinstall the turbo, all intake and exhaust tubes including the downpipe, alternator, shroud, wires, etc., in reverse order from Steps 3 to 17.

STEP 24

Refill the system with new coolant, using the manufacturer's recommended type and mix according to the label.

STEP 25

You are now ready to test your EGR delete kit. Start the engine and run until the coolant circulates. Top off the coolant system if needed, and carefully inspect for any coolant or oil leaks.



Note: *If the vehicle throws a code or triggers the check engine light, consider leaving the factory EGR valve in place (2005 models only). Alternatively, for 2005–2007 model years, aftermarket tuning can be used to prevent any trouble codes.*



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