



Thank you for purchasing a Sinister Manufacturing Company 6.4L Powerstroke EGR Delete Kit. Precision manufactured using high quality aluminum and stainless steel.

These installation instructions have been written to help you in the installation of your Sinister 6.4L Powerstroke EGR Delete Kit. Please read it completely before installing your kit.

This Kit has been designed for:
2008-2010 6.4L Ford Power stroke

This kit may void factory warranty please check with manufacturer.

Sinister Manufacturing Company recommends that a professional aftermarket parts installer, who has all the necessary equipment, tools and experienced personnel needed for proper installation, should perform the installation of this system. However, if you decide to perform the installation, it will be at your own risk.

Please take time to read and understand the following...

By installing your Sinister 6.4L Powerstroke EGR Delete Kit, you indicate that you have read this document and you agree with the terms stated below. It is the responsibility of the purchaser to follow all installation instruction guidelines and safety procedures supplied with your Sinister 6.4L Powerstroke EGR Delete Kit.

Sinister Manufacturing Company assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or all previously stated reasons resulting from incompatibility with other manufacturer's products and/or systems.

If you should have any questions regarding our warranty policy, installation, or any other matter pertaining to your new Sinister 6.4L EGR Delete Kit, please give us a call at the number provided.

Please call us toll free at 877-692-4110 Mon-Fri 8am-5pm
if you need any additional assistance.

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6.4L Powerstroke EGR Delete Kit



PACKING LIST:

QTY.	DESCRIPTION
1	EGR Block-Off Plate
1	Exhaust Block-Off Plate
1	Exhaust Gasket
2	Coolant Line Plugs
1	Hose Connector
1	Stand-Off Spacer
4	M10-1.25 x 40 Hex Head Bolts
2	M10-1.25 x 20 Hex Head Bolts
2	M10-1.25 x 16 Hex Head Bolts
2	Plastic Hose Routing Clips

Note: Note: Before removing the original parts from your vehicle, please compare the parts you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation of your new Sinister 6.4L EGR Delete Kit..



Caution!!! Never work on a hot Vehicle. Serious injury in the form of burns can result if the vehicle has been in use and the coolant system is hot, allow vehicle to cool for at least 1 hour. Always wear eye protection when working under any vehicle.

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. (Figure A)

Step 4: Remove the 3/8" hose that runs to the degas bottle. *Save this hose, as you will need it later on.* (Figure B)



Figure A



Figure B



Save the hose from figure B for use later on.

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

Step 6: Remove the driver side battery and battery tray by removing the four bolts. The degas bottle is attached to the battery tray so be sure to disconnect all coolant lines going to the degas bottle as well as the vacuum line running to the battery tray. (Figure D)



Figure C

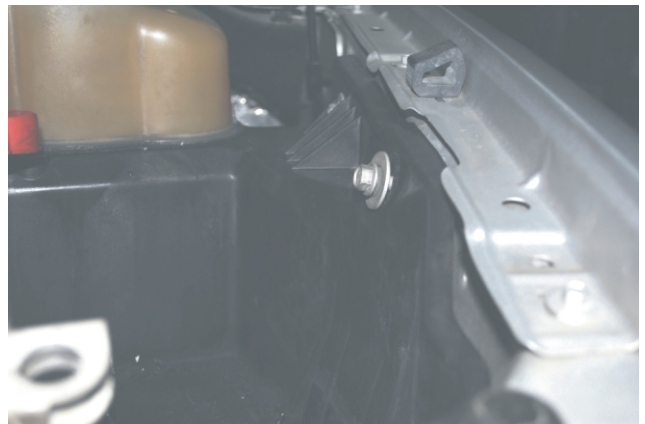


Figure D

Step 7: Disconnect the electrical connector at the top of the vertical cooler followed by the band clamps that hold it in place, as well as the nut and bolt that hold the top of the cooler. (Figure E)

Step 8: Loosen the clamp on the intercooler tube and pull the tube out of the boot.

Note: It is not necessary to remove the entire intercooler tube. (Figure F)



Figure E



Figure F

Step 9: Disconnect the two coolers from each other by removing the two nuts on the back of the flange and prying the two flanges apart. (Figure G)

Step 10: Hold the intercooler tube back while pulling the cooler up and out. You may need to try rotating the cooler to get it out of the mount. (Figure H)

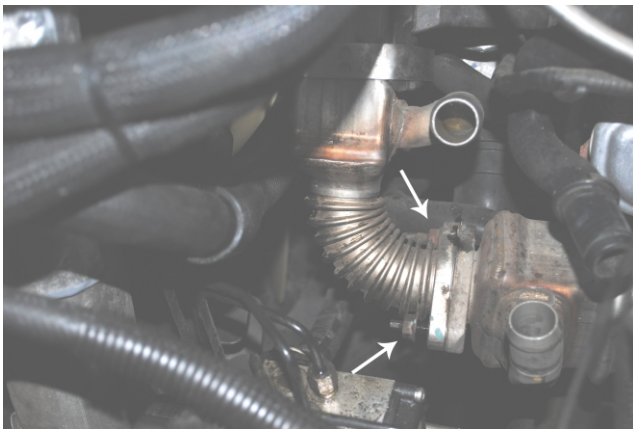


Figure G



Figure H

Step 11: Remove the plastic coolant "Y". It is brittle so be careful when removing it. (Figure I)

Step 12: Remove the upper radiator hose from the thermostat housing. *Note-If the upper radiator hose is the old version with the single o-ring, you should replace it with the new double o-ring version. The older version is all black, where as the new version has a whit end that goes to the thermostat housing (Figure J)



Figure I



Figure J

Step 13: Remove the upper EGR cooler mount. There are three 10MM head bolts, and one 13MM head stud. Be sure to keep the stud, as you will need it later on to secure the power steering line.(Figure K)

Step 14: Remove the that secures the dipstick tube in place.(Figure L)



Figure K

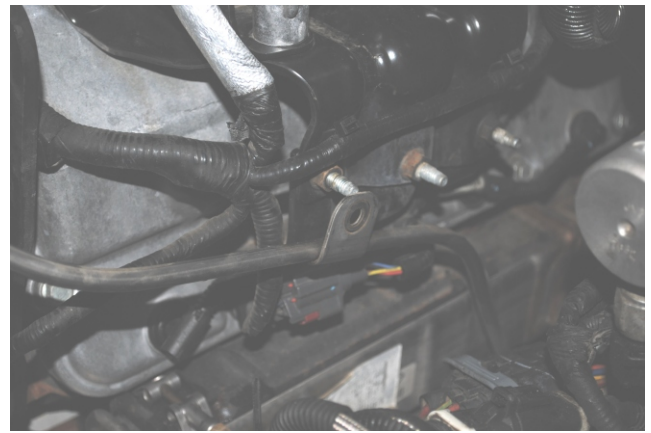


Figure L

Step 15: Remove the steering shaft bolt and slide the stem up and off of the steering box side. Be sure not to turn the steering wheel or tires. (Figure M)

Step 16: Loosen and remove the nuts on the band clamps that hold the lower egr cooler in place. In some cases it may be easier to get the them through the wheel well. (Figure N)

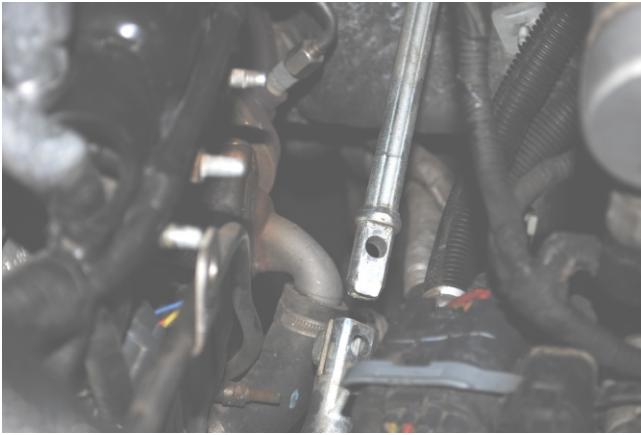


Figure M

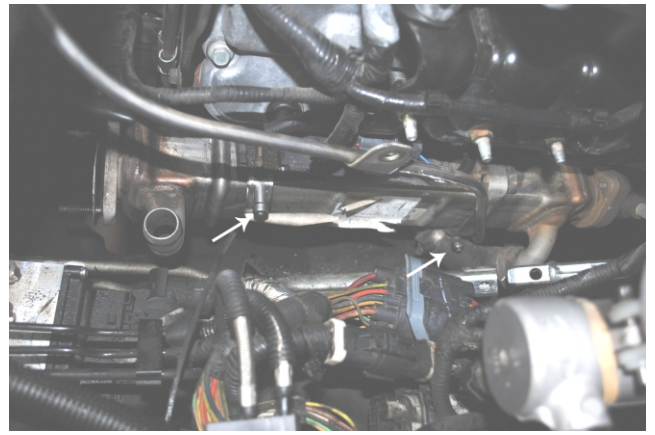


Figure N

Step 17: Remove the rear cooler hose. It may be easier to cut this hose. (Figure O)

Step 18: Remove the two bolts from the rear of the cooler; it is easiest to remove the top bolt from above and the bottom bolt from underneath the truck. (Figure P)



Figure O

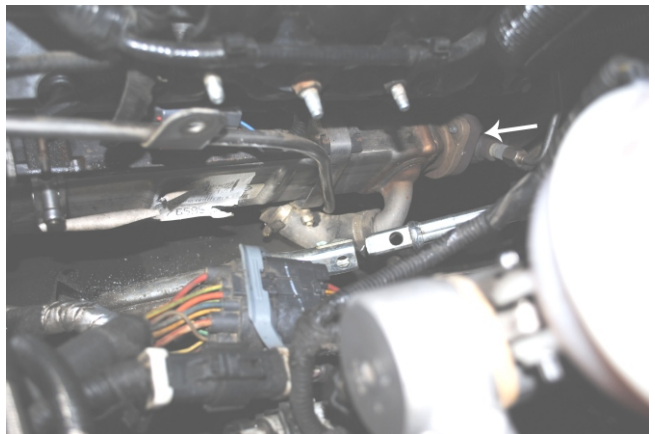


Figure P

Step 19: Rotate the cooler and pull it forwards to remove it from the bracket. You will need to move the dipstick out of the way to do so. (Figure P)

Step 20: At the front of the coolant line that is attached to the cooler bracket, remove the bolt that holds the coolant tube to the timing cover. *Note- the tube and the cooler bracket will come off in one piece. (Figure Q)

Step 21: Remove the four 10MM bolts from the lower cooler bracket. (Figure Q)

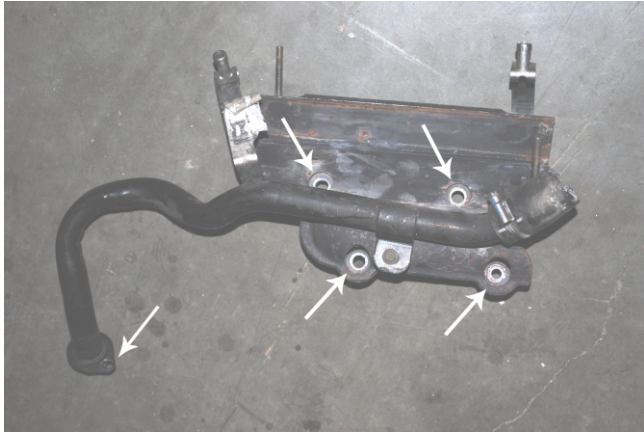


Figure Q



Figure R

Step 22: Install the four new exhaust manifold bolts and torque to factory specs. (Figure R)

Step 23: Install the Sinister stainless exhaust block off plate using the new hardware and exhaust gasket. (Figure S)



Figure S



Figure T

Step 24: Re-install the dipstick hold down nut.

Step 25: Remove the upper cooler hose and steel tube that was attached to the top of the upper cooler and discard. (Figure T)

Step 26: Install the Sinister coolant plugs using the factory hardware in place of the lines that came from the cooler. (Figure U)

Step 27: Re-install the stud that was saved from step 12 with the standoff that has been provided. Then re-install the power steering line support bracket. (Figure V)

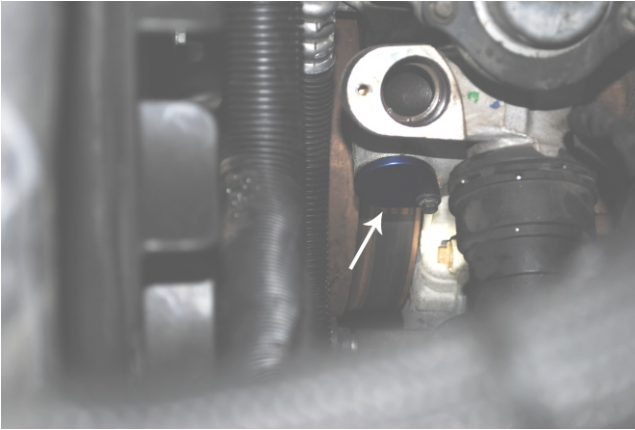


Figure U

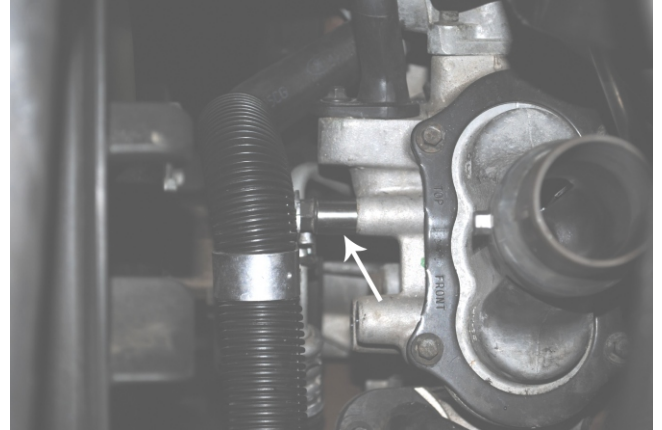


Figure V

Step 28: Re-install the plastic "Y" being careful not to break it.

Step 29: Reconnect the steering shaft and torque to factory specs.

Step 30: Re-install the battery box. Remember to hook up both coolant lines and the small vacuum line.

Step 31: Clean the end of the silicone boot and intercooler tube and re-install.

Step 32: Re-install the upper radiator hose making sure that the metal clips are securely in place.

Step 33: Install the Sinister egr block off plate where the top of the upper cooler was attached.

Note- we have supplied two bolts for this plate so that the stud can be removed if you choose to do so.
(Figure W)



Figure W

Step 34: Use the 3/8" hose that was saved from step 4 to make a piece to reconnect the coolant line to degas bottle and splice it together using the supplied nipple and the existing hose clamps. Use the black routing clips to hold the line in place. (Figure X)

Step 35: Re-rout the loose coolant hose on top of the engine back around open coolant port next to the egr block off plate using the factory hose clamps. (Figure Y)

Step 36: Fill the truck up with the correct coolant and run the truck checking for leaks. Once the truck reaches operating temperature, top off the coolant.



Figure X



Figure Y