



2011-2023 Ford 6.7L Powerstroke

EGR Delete Kit

Installation Manual

 [suncentauto_official](#)

 [Suncentauto.com](#)

 [Suncentauto](#)

 support@suncentauto.com



www.suncentauto.com



Warning Regarding Emissions Laws

Not legal for sale or use on pollution-controlled motor vehicles anywhere in the United States. Legal ONLY for off-road competition racing vehicles and cannot be used on vehicles that are operated on public streets, roads, or highways.



Disclaimer

(1) Assumption of Responsibility

By installing this product on your vehicle, you assume all risks and legal liabilities associated with the use of this product.

(2) Regulatory Compliance Obligations

- You are responsible for ensuring that your vehicle fully complies with federal, state and local emission regulations. (Federal and certain local laws prohibit the removal, modification or disabling of any component that affects vehicle emissions or safety design.)
- Fine penalties or fines resulting from the removal of vehicle emission equipment shall be borne by the end user.
- Use on public roads or highways is prohibited. Violators may face fines.
- All civil penalties or fines resulting from the removal of vehicle emission equipment shall be borne by the end user.

(3) Impact of Factory Warranty

Due to the high performance characteristics of this product, the factory warranty provided by the vehicle manufacturer may be affected and invalidated.

(4) Product Misuse Disclaimer

SuncentAuto assumes no liability for improper use or installation of the product. By installing this product, you are deemed to have released SuncentAuto from any and all legal liability related to its use.

(5) Regional Legal Restrictions

The installation or use of this product may be restricted according to local regulations. Please check all applicable laws before operation.

(6) Legal Liability Exemption

The purchaser and end user agree to release SuncentAuto from any claims, damages, lawsuits, injuries or expenses caused by the following actions, including but not limited to:

- Breaking the terms of this statement, product disclaimer or installation instructions;
- Direct, indirect, incidental, punitive, statutory or special damages or penalties arising from the installation or use of this product.



Installation Precautions

(1) Never Work on a Hot Vehicle

If the vehicle is in use, severe burns may occur. Allow the vehicle to cool before installation. Always wear goggles when working on or under any vehicle.

(2) Remove Rust/Lubricate Fully Before Disassembly

Older vehicles have more rust on the bolts. Before disassembly, spray rust remover (WD-40) and wait for 10 minutes. Remove rust/lubricate fully before disassembly to prevent damage to the screws. (We have received many cases of damage, so we would like to remind you of this.)

(3) Add Coolant After Installation

After the product is installed, please remember to add enough coolant to ensure that the water level scale of the auxiliary water tank is at the standard water level when the thermostat is open (large cycle).

STEP 1

Disconnect both batteries.

STEP 2

Drain coolant from hot and cold side of the radiator. Drain port on the driver's side.

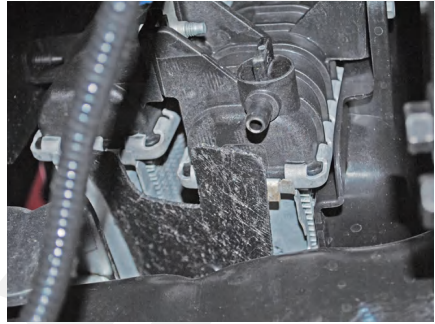


Image 1

STEP 3

Unplug the MAF (mass air flow) sensor that is located on the intake. Release the red tab to unlock the plug for removal.



Image 2

STEP 4

Using an 8mm wrench remove the two bolts holding the intake box and reservoir chamber in place.

STEP 5

Loosen the two clamps on the intake coupling that attaches the intake box to the manifold.

STEP 6

Pull up on the intake box to remove it from the rubber mounts that hold it in place.

STEP 7

Pull the three coolant lines from the clips on the remaining intake tube. Then remove the remaining intake tube.

STEP 8

Disconnect the clips and brackets that retain the two larger coolant lines going to the EGR Cooler. Remove the lines completely.

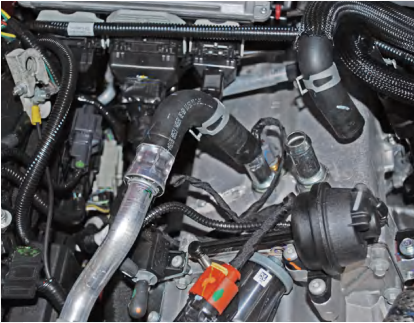


Image3



Image 4

STEP 9

Remove the two hose clamps on the small coolant line "T".
Disconnect the lines and install the supplied straight barbed fitting.



Image 5

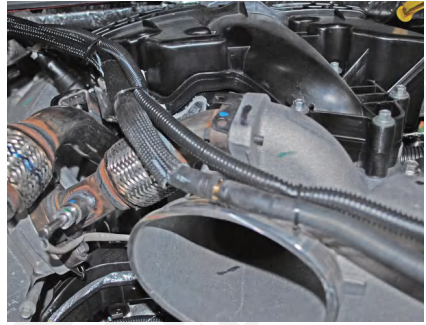


Image 6

STEP 10

Install the supplied coolant line from the degas tank (radiator overflow tank) to the disconnected port near the bottom passenger side of the radiator.



Image 7

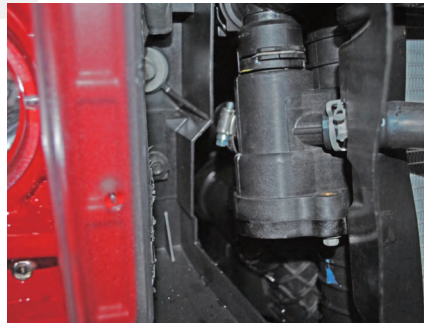


Image 8

STEP 11

Disconnect the quick connect coolant line from the driver side of the EGR cooler.



Image 9

STEP 12

Disconnect the EGR temperature sensor. Zip-tie the vehicle side of the plug and harness out of the way from hot or moving parts.



Image 10

STEP 13

Unplug the PCM harness from the firewall on the passenger side. Secure it out of the way for installation.



Image 11

STEP 14

Unplug the harness on top of the EGR cooler. The harness contains three plugs, an orange plug with a yellow locking tab, a grey plug and black plug with a metal clip. Be sure to replace the clip after unplugging it so that it is not lost.



Image 12

STEP 15

Unplug the vacuum line on top of the EGR system pull the hard plastic line from the rubber 90 fitting cap the line with the supplied rubber cap.

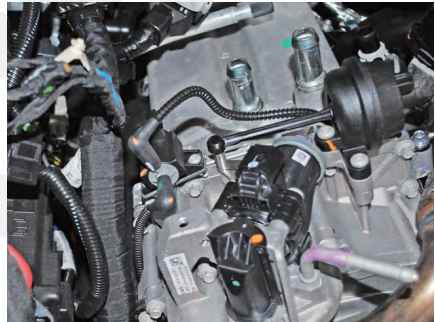


Image 13

STEP 16

Unplug the butterfly valve located next to the fan shroud.



Image 14

STEP 17

Remove the two bolts securing the wiring harness to the EGR cooler.



Image 15

STEP 18

Remove the two clips on the heat shield located on the passenger side under the EGR cooler.

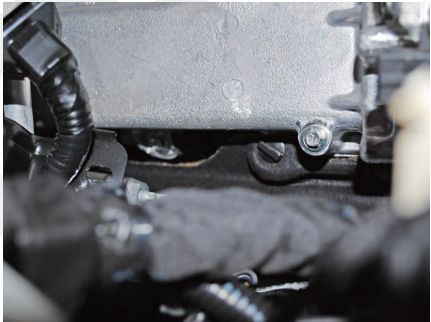


Image 16

STEP 19

Remove the short EGR pipe secured by four bolts. Be sure to keep all hardware and gaskets for future use.

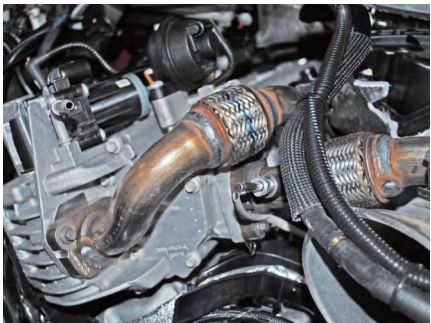


Image 17

STEP 20

Remove longer EGR pipe secured in place by five bolts. Two bolts are on each flange and one is on the support bracket. Be sure to keep all hardware and gaskets for future use.

After removing the EGR pipe, the interface at the manifold end needs to be covered to prevent foreign matter from entering and causing damage to the engine and turbine.



Image 18

STEP 21

After removing the EGR pipe, the interface at the manifold end needs to be covered to prevent foreign matter from entering and causing damage to the engine and turbine.

STEP 22

Remove the seven bolts holding the EGR cooler in place



Image 19

STEP 23

Also remove the nut securing the hard pressure line to the back of the EGR cooler near the re wall.



Image20

STEP 24

Pull the EGR system up and towards the front of the truck. You may need to twist it slightly to get it past some of the intake components. Once the Cooler has been pulled forward a ways remove the wiring harness clipped to the back of the cooler. Double check and remove any clips or harnesses that may be attached to the cooler then remove the cooler from the vehicle.



Image 21

STEP 25

Install the supplied exhaust block off plate using factory hardware and gasket saved from disassembly.



Image 22

STEP 26

Install the coolant block off plate with the remaining supplied allen head bolts.



Image 23

STEP 27

Reconnect the PCM harness. Make sure that the harness plugs are properly connected.



Image 24

STEP 28

Reconnect the quick connect coolant line. Be sure it is securely in place.



Image 25

STEP 29

Zip tie the EGR wires and vacuum line to the PCM harness.



Image 26

STEP 30

Install the Intake block offplate with the O-ring on it using the provided allen head bolts. You will not need to use the factory gasket for this block off plate.



Image 27

STEP 31

Install the supplied mounting bracket and hardware to secure the hard pressure line that was bolted to the back of the EGR cooler. The bolt on the engine is located on the top passenger rear, where the black plastic intake manifold meets the cast aluminum intake manifold.



Image 28

STEP 32

Re-install all of the intake components.

STEP 33

Refill the coolant following factory specifications. Run the engine and check for leaks. After engine has reached operating temperature check coolant level and top off as needed.

Re-route Hose Installation For 2015-2016 Models

STEP 1

Install new bracket supplied.



Image 29

STEP 2

Install new Coolant re-route hose.



Image 30

STEP 3

Reconnect 90 degree angle end of coolant hose to the firewall.



Image 31

Difference Between Upgrade And Normal Styles

Reserved coolant temperature sensor port



Upgraded



Normal



Add a Pass-Through
Plate



Allow the coolant to
circulate



↓
10.8°F

A 10.8°F reduction in
temperature