

Installation Manual



## 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

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- 2) It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering inoperative of any part of the design affecting emissions or safety on motor vehicles used on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle (or possibly higher depending on changes in the law). All civil penalties and fines for removing your vehicle's emissions equipment are the sole responsibility of the end user.
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## Re-route Hose Installation

**Step 1:** Install new bracket supplied.

**Step 2:** Install new Coolant re-route hose.

**Step 3:** Reconnect 90 degree angle end of coolant hose to the firewall.



IMAGE 27



IMAGE 28



IMAGE 28

**Step 29:** 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)



IMAGE 27

**Step 30:** 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)



IMAGE 28

**Step 31:** Re-install all of the intake components.

**Step 32:** 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.



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: 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:** Disconnect both batteries.

**Step 2:** Drain coolant from hot and cold side of the radiator. (Image 1)



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)



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. (Images 3 and 4)

**Step 9:** Remove the two hose clamps on the small coolant line "T". Disconnect the lines and install the supplied straight barbed fitting. (Images 5 and 6)



IMAGE 3



IMAGE 4



IMAGE 5



IMAGE 6

**Step 25:** Install the coolant block off plate with the remaining supplied allen head bolts. (Image 23)

**Step 26:** Reconnect the PCM harness. Make sure that the harness plugs are properly connected. (Image 24)

**Step 27:** Reconnect the quick connect coolant line. Be sure it is securely in place. (Image 25)

**Step 28:** Zip tie the EGR wires and vacuum line to the PCM harness. (Image 26)



IMAGE 23



IMAGE 24



IMAGE 25

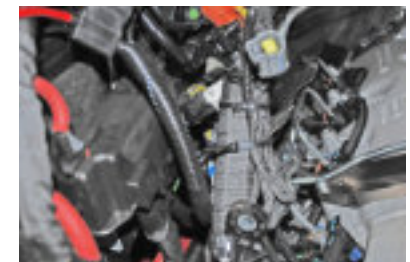


IMAGE 26



**Step 21:** Remove the seven bolts holding the EGR cooler in place.  
(Image 19)



IMAGE 19

**Step 22:** Also remove the nut securing the hard pressure line to the back of the EGR cooler near the rear wall. (Image 20)



IMAGE 20

**Step 23:** 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)



IMAGE 21

**Step 24:** Install the supplied exhaust block off plate using factory hardware and gasket saved from disassembly.  
(Image 22)



IMAGE 22

**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 and 8)



IMAGE 7

**Step 11:** Disconnect the quick connect coolant line from the driver side of the EGR cooler. (Image 9)



IMAGE 8

**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)



IMAGE 9



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)



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. (Images 12)



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)



IMAGE 13

**Step 16:** Unplug the butterfly valve located next to the fan shroud. (Image 14)



IMAGE 14

**Step 17:** Remove the two bolts securing the wiring harness to the EGR cooler. (Image 15)



IMAGE 15

**Step 18:** Remove the two clips on the heat shield located on the passenger side under the EGR cooler. (Image 16)



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)



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. (Image 18)



IMAGE 18