

2007.5 - 2009 CUMMINS
COOLER UPGRADE KIT

USER MANUAL

Warning Regarding Emission 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

- By installing this product onto your vehicle, you assume all risk and liability associated with its use.
- 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.
- Due to its high performance nature, this product may void vehicle manufacturer's warranty.
- GDP Tuning, LLC. is not responsible for misuse of its products. By installing this product, you release GDP Tuning, LLC. of any and all liability associated with its use.
- Depending on where you live, restrictions may apply. Check all applicable laws before installing or using!
- The purchaser and end user releases, indemnifies, discharges and holds harmless GDP Tuning, LLC. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. GDP Tuning, LLC. will not be liable for any direct, indirect, consequential, exemplary, punitive, statutory, or incidental damages or fines caused by the use or installation of this product.

Caution

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.

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GDP620001



Step 1

Disconnect batteries.



Step 2

Drain engine coolant.



Step 3

Remove the plastic engine cover that is held in place by four 8mm bolts. Note: The dipstick must be removed in order to remove the plastic engine cover.



Step 4

Loosen the two V-band clamps and remove the 10mm bolt in the center of the tube, the EGR crossover tube can now be removed.



Step 5

Remove the electrical connector on the EGR valve. Note: Some electrical connectors may have a locking tab. In order to remove these connectors the the tab must be slid into the “unlock” position.

Step 6

Remove the EGR valve that is held in place by four 10mm bolts.



Step 7

Remove any existing gasket material from the mounting surface on the intake elbow. Note: It is important to keep gasket debris from getting in the open intake ports. We recommend putting a clean rag in each port to keep any excess gasket material out of the intake.

Step 8

Unplug the electrical connector (equipped with locking tab) on the back side of the throttle valve. The throttle valve is located on the driver side, just under the intake elbow. It is important to leave this unplugged in order to keep the throttle valve from permanently closing.

Note: An alternative to leaving the throttle valve unplugged is to install the Throttle Valve delete, which will also increase flow through the intake.



Step 9

Install the intake block off with the supplied bolts. Ensure that both o-rings are fully seated.

NOTE: image shows previous plate design, which is now black.



Step 10

Remove the heat shield from the EGR bypass. The heat shield is held in place by three 10mm nuts and two 8mm bolts.



Step 11

With the heat shield out of the way remove the four 10mm bolts that secures the exhaust bypass in place. Note: The exhaust bypass remains in place for later removal.



Step 12

Remove the four 10mm bolts securing the EGR servo mounting bracket in place.



Step 13

Simultaneously remove the EGR servo (still attached to the mounting bracket) and the exhaust bypass (bolts removed in step 11) from the vehicle.

Step 14

Remove the crankcase breather tube that runs over the EGR cooler. Also, disconnect the two coolant lines running to the EGR cooler.



Step 15

Remove the four 10mm EGR cooler mounting bolts.

Step 16

Remove the two 15mm nuts connecting the EGR cooler to the exhaust manifold.

Step 17

Remove the V-band clamp that is connecting the EGR cooler and the exhaust crossover elbow. Note: Image shown with the V-band clamp removed.



Step 18

Remove the EGR cooler. This can be done by pulling the cooler up and out towards the front of the vehicle.



Step 19

Remove exhaust crossover elbow that is held in place by two 15mm nuts.

Step 20

Remove EGR cooler mounting bracket by unbolting the two 14mm bolts that bolt directly to the engine. Note: The bolts are not visible in the image, however the arrows give a general idea of where the bolts are underneath the mounting bracket.



Step 21

Install both exhaust block off plates, reusing the factory hardware. The block off with the pre-drilled port will be installed on the back side of the exhaust manifold. The block off that is not pre-drilled will be installed in place of the exhaust crossover elbow.



Step 22

Re-install the crankcase breather tube.



Step 23

Using the new supplied coolant tube, connect the two coolant ports that previously went to the EGR cooler.



Step 24

Using the factory hardware, attach the provided support bracket to the rear mounting hole on the engine block where the EGR cooler bracket was mounted.
Note: The bolt hole is directly behind the vertical coolant line.

Step 25

Use the provided hardware to attach the dipstick tube and coolant tubes to the support bracket.



Step 26

Refill with new manufacturer recommended coolant and mix according to label.

Step 27

The installation is complete and ready for testing. Start the engine and run until coolant circulates. Top off coolant system as necessary and make a close inspection for any leaks.



Step 28

Re-install plastic engine cover.