

K.B.D Diesel Performance PRODUCTS



Includes:

1. Horizontal Tube Type EGR Cooler
1. Vertical Tube Type EGR Cooler
3. Silicone Hoses
1. Mounting Hardware & Clamps
4. Gaskets

CAUTION: Never work on a hot vehicle. The hot exhaust system or hot engine can cause serious injury in the form of burns. If the vehicle has been in use or the engine was running and the exhaust system or engine is hot, allow the engine to cool for a minimum of one hour prior to starting the job. Always wear eye protection when working on or under the vehicle. Before removing any of the original parts from your vehicle, please compare the parts you have received with the picture and parts list of the kit you ordered. This assures that you have all the parts necessary for the installation. Prior to disassembly, we suggest applying penetrating fluid, such as PB-Blaster™ or JB-80™ to all exhaust fasteners. Before working on the vehicle, be sure it is parked on a level surface and is chocked to prevent the vehicle from rolling. Please also be sure the keys are removed from the vehicle for your safety.

1: Make sure the front wheels are straight.

2: Disconnect both batteries.

3: Drain the coolant using the coolant drain plug located on the bottom of the radiator on the driver side.

4: Remove the 3/8" hose that runs to the degas/coolant overflow tank. Keep this hose as it will be reused during installation.

5: Remove the upper radiator hose by popping the wire clip out and pulling the hose straight out. If your radiator hose has a single O-ring now would be a good time to replace it with a new double O-ring version.

6: Remove the driver side battery.

7: Remove all of the coolant hoses going to the degas bottle. Also remove the vent line going to the battery tray.



8: Remove the battery tray and degas bottle. This is held on by four bolts.

9: Loosen the clamp on driver side intercooler tube and separate the intercooler tube from the rubber boot. It is not necessary to remove the tube.

10: Disconnect the electrical connector on top of the vertical cooler.

11: Disconnect all the coolant lines running to the vertical EGR cooler. Remove the nuts and bolts securing the coolers together. Release the mounting clamps, and separate the two coolers by prying on the flanges.

12: Hold the intercooler tube back while pulling the vertical EGR cooler up and out. You may have to rotate the cooler to release it from its mount.

13: Remove the temperature sensor from the top of the vertical EGR cooler. Re-install the temperature sensor onto the new upgraded EGR cooler.

14: Remove the steering shaft bolt, and slide the stem up and out of the steering box shaft. **Be sure to not turn the steering wheel or tires.**

15: Remove the nut that secures the dipstick tube in place.

16: Release the mounting clamps on the horizontal EGR cooler. It may be easier to access the clamps though the wheel well.

17: Remove the coolant line on the EGR Cooler.

18: Remove the bolts on the rear flange of the EGR cooler. It is easier to access the bottom bolt from underneath the truck.

19: With the dipstick moved out of the way, remove the EGR cooler by pulling forward and rotating it out of its mount.

20: Place the new horizontal EGR Cooler into the factory location. Install the bolts on the rear flange of the EGR Cooler. Torque the bolts to factory torque specifications.

21: Connect the coolant hose to the horizontal EGR cooler. Secure the clamps that hold the EGR cooler in place. Also, reinstall the nut that secures the dipstick in place.

22: Reconnect the steering shaft and re-install the bolt to secure it. Tighten the bolt to factory torque specifications.

23: Holding the intercooler tube out of the way, install the new vertical EGR cooler in place.

24: Install the nuts and bolts securing the coolers together. Tighten the mounting clamps to factory specifications. Connect all of the coolant hoses to the vertical EGR cooler.

25: Reconnect the electrical connector on top of the vertical cooler. PRODUCTS

26: Reinstall the intercooler tube, and tightly secure the hose clamp in place.

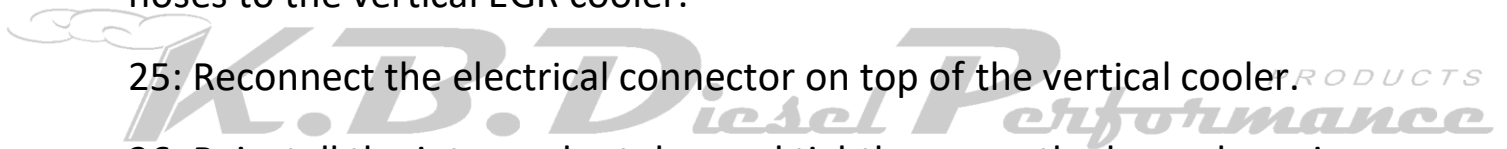
27: Reinstall the battery tray and degas bottle securing it with four bolts.

28: Reinstall all of the coolant hoses going to the degas bottle. Also, reinstall the vent line going to the battery tray.

29: Reinstall the driver side battery.

30: Reinstall the upper radiator hose. Secure the wire clip back into the keeper.

31: Reinstall the 3/8" hose that runs to the degas bottle.



32: Refill the coolant using the factory specified coolant. Then reconnect both batteries.

33: Start the engine and check for leaks. If no leaks are present, run the engine until the coolant circulates. Top off the coolant as needed.

Congratulations on your installation!



Check out our other Powerstroke parts!



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