

# Powerstroke 6.4L EGR Block Kit

Read instructions thoroughly before proceeding!

**\*\*\*This kit may void factory warranty - please check with manufacturer.\*\*\***

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You will need the following tools for this installation:

- 10mm wrench
  - 13mm wrench
  - Flat-head screwdriver
  - Brake cleaner
  - Flashlight
  - Shop towels
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Parts List:

Qty.	Description
1	Stainless Steel Exhaust Block-off Plate
1	Aluminum Intake Elbow Block-off Plate W/ O-ring seal
2	Aluminum Cooler hose plugs W/ O-ring seals
2	5/16"x1.5" bolts
2	5/16" flange nuts

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We recommend that a diesel shop or professional aftermarket parts installer, with the necessary equipment, tools and experienced personnel needed for proper installation, perform the installation of this system. However, if you decide to perform the work yourself, we recommend that someone should help you. Ensure that the installer uses all under-car safety precautions, including eye protection.

***Please take time to read and understand the following:***

We assume 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.

*Before removing the original parts from your vehicle, please compare the parts you have received with the parts list provided on page 1 to assure that you have all the parts necessary for the installation of your EGR block kit.*

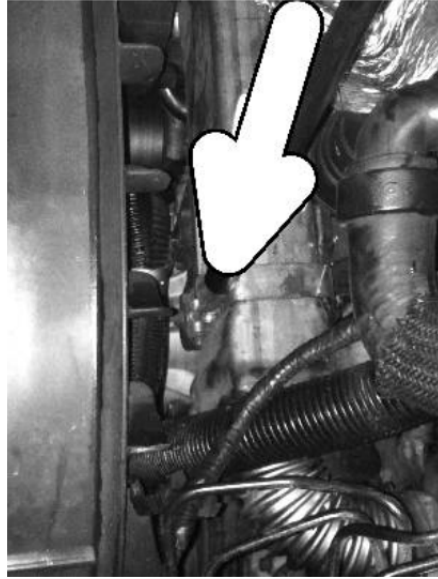
*We suggest a penetrating spray lubricant be applied liberally to all fasteners, and allow a significant period of time for the chemical to lubricate the threads before attempting to disassemble.*

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1. Center steering wheel.
2. Disconnect battery.
3. Drain coolant.
4. Remove 3/8" hose from cooler and reservoir. This can be discarded.
5. Remove upper radiator hose clip and pull hose loose from the radiator.
6. Remove driver's side battery, tray and coolant tank assembly. Be sure to remove vacuum hose from bottom of assembly. This must be reinstalled for vacuum system to work properly.
7. Remove band clamp nuts, hose clamps from hoses and unhook EGR cooler temp sensor.
8. Loosen and pull upper I/C tube hose out of silicone. It is unnecessary to remove the entire tube.
9. Remove upper cooler to intake elbow bolts. Loosen EGR Cooler hold-down clamps, remove cooler-to-cooler nuts, and pry from studs:



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10. Remove cooler, twist and pull upward while holding I/C tube back.
11. Remove plastic coolant Y to prevent breakage. This part is very brittle. Remove upper vertical cooler cast iron bracket, three 10mm head bolts and one 13mm head stud. Save the stud. This will be reused to secure the power steering hose.
12. Note at the time if the hose is black where it attaches to the thermostat housing. It should be replaced with the newer white hose that utilizes two o-rings to seal, as opposed to one.
13. Remove vertical cooler lower bracket.
14. Remove dipstick tube hold-down nut.

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15. Remove steering shaft bolt and slide loose.
16. Loosen and remove nuts from lower horizontal cooler band clamp nuts. Some of these are easier to access from the wheel well.
17. Remove or cut free the horizontal rear cooler hose.
18. Remove horizontal cooler bolts from exhaust extension tube. (One from top, one from underside of truck.)
19. Rotate cooler to free dipstick tube and push dipstick tube to driver's side of steering shaft to get out of way temporarily.
20. Pull cooler upward and out toward the front.
21. Install exhaust block-off plate as pictured below with supplied nuts and bolts:



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22. Remove cooler tube from timing cover and remove in one piece as pictured above.
23. Reinstall dipstick tube hold-down nut.
24. Install four new exhaust manifold bolts (NOT INCLUDED) and torque to factory specs.
25. Remove upper cooler hose and steel line from front cover and discard.
26. Install new coolant plugs where these lines came from.
27. Install standoff under stud that was saved earlier. Reinstall power steering hose clamp to support it.
28. Reinstall coolant Y pipe into front cover.
29. Reinstall steering shaft and torque to factory specs.
30. Reinstall battery box assembly. Reinstall vacuum hose to bottom of tray.
31. Clean and reconnect upper silicone to I/C tube. VERY IMPORTANT: Remove all oil residue with brake cleaner. This will prevent the tube from sliding apart under high boost pressure.
32. Reinstall upper radiator hose and clip.
33. Attach coolant hoses to tank.
34. Refill with coolant. Run and refill after coming up to temp.