



INSTALLATION INSTRUCTIONS

MAKE: RAM

MODEL: 1500 EcoDiesel

YEAR: 2014-2015

ENGINE: V6-3.0L (td)

Intercooler w/ Tubes

46-20172



Parts Included:

- Intercooler
- Coupling Elbow (1)
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- Tube, Lower (1)
- Tube, Upper (1)
- Tube (1)
- Coupling Hump (1)
- Coupling Reducer (1)
- Vent, Breather (1)
- Nut, Hex (1)
- Clamp, Mini (1)
- Fender Washer (1)
- Plug, Hd Socket (2)
- Clamp (6)

Tools Needed:

- 7mm, 10mm, 11mm & 13mm sockets
- Pick
- Extension
- Ratchet
- WD-40
- Hair Spray

CAUTION: Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Exhaust systems reach high temperatures and may cause serious burns. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation. aFe recommends professional installation on our products. **Note: aFe recommends an aftermarket tuner to clear check engine light.**

1. Park vehicle on level ground and apply parking brake, use wheel chokes if necessary, and disconnect battery.
2. Remove the engine cover and the plastic cover that covers the radiator and intercooler.
3. Remove the four (4) bolts securing the grill to the core support, using a 10mm socket.
4. Unclip the four (4) clips on the back side around the outer edges of the grille, using a screw driver to pry the grille away from the core support.
5. Remove the four (4) bolts securing the electronic louvers to the core support, using 13mm and 10mm sockets.
6. Disconnect the electronic louvers and remove them from the vehicle.
7. Loosen the clamps on both sides of the intercooler, using a 7mm socket.
8. Using a pick with some WD-40, break both of the intercooler hoses loose from the intercooler and disconnect them from the intercooler.
9. Remove the two (2) bolts securing the intercooler to the core support, using a 13mm socket.
10. You can now remove the stock intercooler from the vehicle.
11. Follow the drivers side intercooler hose back to the clamp just before it turns into a metal tube and loosen that clamp, using a 7mm socket.
12. There is a bracket, in the same location as the previous step, with two (2) nuts that mount the bracket to the engine that will need to be removed to get the lower portion of the intercooler hose out of the vehicle, using a 10mm socket.
13. Follow the metal portion of the tube all the way back almost to the turbo and pull back the rubber cover, near the heat wrap, this will uncover the final clamp which will need to be loosened to remove the upper portion of the intercooler tube, using a 7mm socket.
14. Remove both halves of the intercooler tube from the vehicle.
15. Remove the sound deadening material from the top of the engine.
16. Install the aFe intercooler tube into the vehicle and line the bracket up with the stud coming off of the front of the engine and bolt it down with the supplied washer and nut, but do not tighten yet.
17. Install the equal length 45° aFe coupling and both of the clamps onto the intercooler tube, but do not tighten yet.
18. On the passenger side of the vehicle, follow the intercooler hose from the intercooler connection back to the connection on the front of the engine. Use a screwdriver to lift the clip up to disconnect the intercooler hose from the engine then, remove the intercooler hose from the vehicle.
19. Looking down into the stock intercooler tube you will need to push the black plastic housing upwards on both sides to release the plastic housing from the metal portion of the tube so the metal spring clip can be reused with the aFe intercooler tube.
20. Once the spring clip is removed from the stock intercooler tube you can install the spring clip onto the aFe intercooler tube, make sure the center pin of the spring clip is at the top of the tube when installed into the vehicle.
21. Install the reducing coupling onto the shorter end of the larger tube along with two (2) of the provided clamps then, install the longer side of the second coupling onto the other end of the same tube along with the remaining two (2) clamps. Install bottom portion of tube into the vehicle.
22. Install the second tube onto the vehicle by pushing the machined end, with spring clip already installed, onto the inlet of the engine then connecting the tube to the lower portion of the tube installed in the previous step.
Note: Depending on the production date of your vehicle the intercooler tubes will either run in between the A/C lines and they will rest on the coupling between the intercooler tubes, or the intercooler tubes will run in front of the A/C lines.
23. Install the supplied brass breather fitting onto the bottom passenger side support peg and one of the plugs into the driver side bottom support peg.
Note: The breather fitting is equipped with this intercooler because testing has shown the stock intercooler may have condensation build up in the bottom of the intercooler on some vehicles. The breather fitting will prevent this issue from happening with no side effects. There is an extra plug provided that can be installed if you prefer not to use the breather.
24. Install all four (4) of the OE rubber grommets onto the aFe Intercooler.
25. Install the straight hump coupling onto the passenger side of the intercooler with two (2) clamps and slide the coupling all of the way back.
26. Remove the two (2) radiator mounting bolts to make room for the larger intercooler inlet and outlet tubes.
27. Install the aFe Intercooler into the vehicle, the radiator may need to be lifted a little bit on the passenger side to make room for the intercooler outlet tube to slide by.
28. Once everything is back into place and all of the rubber grommets on the intercooler and the radiator are in their proper locations, install the intercooler mounting bolts from step 9 and the radiator mounting bolts from step 26, using a 13mm socket.
29. Install both intercooler tube couplings onto the intercooler and position the intercooler tubes in a way that is not touching any metal surfaces and tighten ALL of the clamps with a 7mm or 11mm socket.
30. Tighten the mounting bolt for the drivers side intercooler tube, using a 10mm socket.
31. Install the louvers that were removed from step 6 and re-connect the electrical connector.
32. Install the grille back into the vehicle and bolt back down from step 3.
33. Install the plastic cover from step 2.
34. Install the engine cover and reconnect the battery.
Note: Intercooler tube may touch the engine cover due to the larger tube diameter.
35. Install is complete. Enjoy!