



## INSTALLATION INSTRUCTIONS

MAKE: RAM

MODEL: 1500 EcoDiesel

YEAR: 2014-2015

ENGINE: V6-3.0L

**Intercooler Tube**  
**46-20178-B (Black)**  
**46-20178-R (Red)**



### Parts Included:

- Tube (1)
- Coupling, Silicone Elbow (1)
- Clamp (3" - 2-5/16) (1)
- Clamp (2-13/16 - 3-1/2) (1)
- Nylon Lock Nut (1)
- Fender Washer (1)

### Tools Needed:

- 7mm, 8mm, 10mm sockets
- Pick
- Extension
- Ratchet
- WD-40

**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's Downpipe 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 from the vehicle.
3. Loosen the intercooler hose on the driver's side of the vehicle connected to the intercooler, using a 7mm socket.
4. Using a pick with some WD-40, break the intercooler hose loose from the intercooler and disconnect it from the intercooler.
5. Follow the intercooler hose back to the clamp just before it turns into a metal tube and loosen that clamp, using a 7mm socket.
6. 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.
7. 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, that will uncover the final clamp that will need to be loosened to remove the upper portion of the intercooler tube.
8. Remove both halves of the intercooler tube from the vehicle.
9. Remove the sound deadening material from the top of the engine.
10. Install the aFe coupling and both of the clamps onto the intercooler, but do not tighten yet.
11. 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 washer and nut supplied.
12. Position the intercooler tube in a way that is not touching any metal surfaces and tighten the upper clamp with a 7mm socket and the two (2) lower clamps with an 8mm socket.
13. Install the engine cover and reconnect the battery.  
**-Note: Intercooler tube may touch the engine cover do to the larger tube diameter.**
14. Install is complete.

Enjoy!



## INSTALLATION INSTRUCTIONS

MAKE: RAM

MODEL: 1500 EcoDiesel

YEAR: 2014-2015

ENGINE: V6-3.0L

**Intercooler Tube**  
**46-20179-B (Black)**  
**46-20179-R (Red)**



### Parts Included:

- Tube, Upper x1
- Tube, Lower x1
- Clamp (2-13/16 - 3-1/2) x4
- Coupling, Elbow x1
- Coupling, Reducer x1

### Tools Needed:

- 7mm & 8mm sockets
- Screwdriver
- Pick
- Extension
- Ratchet
- WD-40

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1. Park vehicle on level ground and apply parking brake, use wheel chokes if necessary, and disconnect battery.
2. Remove the engine cover from the vehicle.
3. Loosen the intercooler hose on the passenger side of the truck connected to the intercooler, using a 7mm socket.
4. Using a pick with some WD-40, break the intercooler hose loose from the intercooler and disconnect it from the intercooler.
5. Follow the intercooler hose back to the connection on the front of the engine and use a screwdriver to lift the clip up to disconnect the intercooler hose from the engine then, remove the intercooler hose from the vehicle.
6. Looking down into the stock intercooler tube you will need to push the black plastic housing downwards 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.
7. 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.
8. 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.
9. 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.
10. Ensure all tubes are not resting on any metal surfaces then tighten up all four (4) clamps using an 8mm socket.
11. Install the engine cover and reconnect the battery.
12. Install is complete.

**Enjoy!**