



INSTALLATION INSTRUCTIONS

MAKE: Ford
MODEL: F-150
YEAR: 2011-2014
ENGINE: V6-3.5L (tt)

Intercooler 46-20121



Parts Included:

- Intercooler
- Plug, Hex (X1)
- Screw, M6x1x25 (X2)
- Washer, M6 (X2)
- Vent, Breather 1/8" (X1)
- O-Ring, 1-3/4" (X1)
- Screw, M6 x 1 x 16 (x1)

Tools Needed:

- 8mm, 10mm, & 13mm socket
- 15mm deep socket
- Flat head screw driver
- Panel popper

CAUTION: Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Engine bays 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.

1. Park vehicle on level ground and engage parking brake.
 2. Disconnect battery.
 3. Remove the two (2) 15mm nuts holding the plastic shield underneath the vehicle.
 4. Remove the plastic clips holding the rubber cover behind the plastic shield just removed.
 5. Loosen clamps holding the passenger side intercooler couplings onto the intercooler then disconnect couplings from intercooler.
 6. Remove c-clip holding driver side tube onto intercooler then disconnect the tube from intercooler.
 7. **For 2013 & 2014 MODELS ONLY:** Disconnect the plastic tube from recirculation canister and unplug the electrical connector on the pressure relief valve.
 8. While supporting the intercooler support bracket, remove the two (2) 13mm bolts to drop the intercooler and support bracket out from the bottom of the vehicle.
 9. **For 2013 & 2014 MODELS ONLY:** Once the intercooler is out of the vehicle, remove the recirculation canister and pressure relief valve assembly by removing the bottom screw, then twisting the entire assembly counter-clockwise.
 10. **For 2011 & 2012 MODELS ONLY:** Install the supplied 1.75" O-ring and aFe cover-plate onto the flange on the aFe intercooler using the two (2) M6 washers and two (2) M6x25mm bolts.
 11. **For 2013 & 2014 MODELS ONLY:** Reinstall the recirculation canister and pressure relief valve assembly onto the aFe intercooler. Secure with the supplied M6 washer and M6x16mm bolt (DO NOT USE SUPPLIED O-RING).
 12. Install the supplied brass breather fitting onto the bottom driver side 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 a plug provided that can be installed if you prefer not to use the breather.
13. Install all four rubber grommets onto the aFe intercooler and bottom support bracket then install into vehicle.
 14. Use a small amount of WD-40 on outside of grommets for ease of installation.
- Note:** It may be necessary to reposition top support bracket for installation.
15. Reinstall the passenger side stock couplings, and clamps, onto the aFe intercooler and tighten clamps.
 16. Reinstall the driver side tube with c-clip onto the aFe intercooler.
 17. **For 2013 & 2014 MODELS ONLY:** Reconnect the plastic tube and electrical connector onto the recirculation canister and clip into place on intercooler.
 18. Reinstall all parts removed in steps 3 & 4.
 19. Reconnect battery.
 20. Installation is now complete.
 21. Enjoy and thank you for choosing aFe Power!