



## INSTALLATION INSTRUCTIONS

MAKE: BMW  
MODEL: 335i (E90/E92/E93)  
YEAR: 2007-2010  
ENGINE: L6-3.0L (tt) N54

## Intercooler w/ Tube 46-20152-B



### Parts Included:

- Intercooler Tube (x1)
- Couplings (x2)
- Clamps (x6)
- O-Ring (x1)
- Screws (x2)
- Intercooler (x1)
- Silicone Hose (x1)
- Plugs (x2)

### Tools Needed:

- 6mm, 7mm & 8mm sockets
- T15, T20, T25 & T30 Torx Sockets
- Ratchet
- Flat head screw driver
- Grease
- Allen Wrench Set

**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.

- Step 1.** Park vehicle on level ground and engage parking brake.
- Step 2.** Remove the two (x2) screws that attach the air scoop to the radiator support using a T20 Torx bit or nut driver.
- Step 3.** Unclip the rest of the scoop from the air box and remove the air scoop assembly from the vehicle.
- Step 4.** Disconnect the three (x3) rubber grommets from the back of the air box that hold the wire loom.
- Step 5.** Loosen the clamps that connect the intake to the turbo inlet tubes, using a 7mm socket or nut driver. Both clamps are on the drivers' side, one is under the cowl next to the grommets from the previous step and the other clamp is next to the power steering reservoir.
- Step 6.** Disconnect the vacuum line at the front of the air box by depressing both sides and pulling up and unclip it from the air box.
- Step 7.** Now you can remove the air box from the vehicle by pulling straight up on it. There will be three (x3) rubber mounting grommets on the bottom of the air box.
- Step 8.** Disconnect the bypass valves from the intercooler tube by twisting the grey locking mechanism clockwise and lifting the valve off of the tube and set them to the side.
- Step 9.** Unscrew the mounting bolt on the intercooler tube to the engine, using a T30 Torx bit or driver.
- Step 10.** Loosen the clamp between the upper and lower intercooler tubes using a 7mm socket or nut driver.
- Step 11.** Unplug the sensor from the intercooler tube and remove the clip securing the tube to the throttle body, using a screwdriver.
- Step 12.** Now you can remove intercooler tube from the vehicle.
- Step 13.** Remove the sensor from the tube using a T15 Torx bit or driver.
- Step 14.** Install the supplied O-ring into the groove on the inside of the aluminum adapter on the aFe intercooler tube and the factory sensor from the previous step with the supplied bolts.
- Note: Use a small amount of grease on the O-rings to prevent them from tearing and for ease of installation.**
- Step 15.** Remove the belly pan from underneath the front of the vehicle using an 8mm socket.
- Step 16.** Disconnect the intercooler tube on the driver and passenger sides by using a screwdriver to remove the clips securing both intercooler tubes to the intercooler.
- Step 17.** Remove the two (x2) mounting screws on each side of the intercooler, using a T25 Torx socket.
- Step 18.** You can now remove the intercooler from the vehicle by unhooking it from the plastic mounts and pulling it down.
- Step 19.** Remove the lower half of the driver side intercooler tube from the bottom.
- Step 20.** Install the plugs supplied into the auxiliary sensor ports on the aFe intercooler, using an Allen wrench.
- Note: Seal the threads using teflon tape or some type of thread sealant.**
- Step 21.** Install the aFe intercooler the same way the factory intercooler was using the factory T25 Torx screws and tighten.
- Step 22.** Reconnect the factory hot side intercooler hose to the aFe intercooler and install the factory retaining clip.
- Note: Use a small amount of grease on the factory seal and O-ring to prevent it from tearing and for ease of installation.**
- Step 23.** Install the aFe silicone hose with one (x1) clamp from the top and connect it to the intercooler outlet on the driver side.
- Step 24.** Install the aFe intercooler tube into the vehicle with one (x1) clamp, reconnect the sensor, do not tighten clamps at this time.
- Step 25.** Reinstall belly pan from **Step 15**.
- Step 26.** Ensure the tube is not touching any metal surfaces then tighten the clamps from **Steps 23 & 24** with an 8mm socket or nut driver.
- Step 27.** Reinstall the bypass valves and push them all the way down until they bottom out on the couplings and tighten all four (x4) clamps.
- Step 28.** Install the two (x2) 1" couplings onto the intercooler tube with two (x2) clamps on each coupling.
- Step 29.** Reinstall the vacuum line, air box, and air scoop from **Steps 2, 3, 6 & 7**.
- Step 30.** Reconnect turbo inlet tubes to air box and tighten both clamps.
- Step 31.** Reconnect the rubber grommets to air box from **Step 4**.

Installation is now complete. Enjoy and thank you for choosing aFe Power!