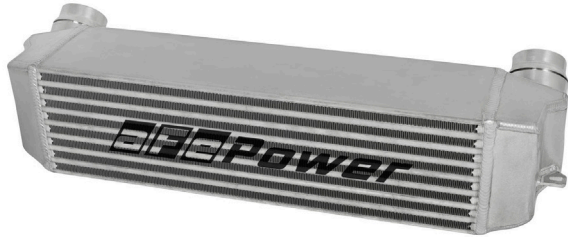




## INSTALLATION INSTRUCTIONS

MAKE: BMW  
MODEL: 328i (F3X)  
YEAR: 2012-2016  
ENGINE: L4-2.0L (t) N20

**Intercooler  
46-20221**



### Parts Included:

- Intercooler Tube (x1)
- Plugs (x2)
- Trim Seal (x2)

### Tools Needed:

- 8mm socket
- T25 Torx Socket
- 3/16" Allen Wrench
- Flat head screw driver

**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 belly pan from underneath the front of the vehicle using an 8mm socket.
- Step 3.** Disconnect the intercooler tube on the driver and passenger sides by using a screwdriver to lift the clip up on both sides to disconnect it from the intercooler.
- Step 4.** Now you can disconnect intercooler tubes from the intercooler.
- Step 5.** Remove the intercooler from the vehicle by removing the two (x2) mounting screws on each side of the intercooler, using a T25 Torx socket.
- Step 6.** You can now remove the intercooler from the vehicle by unhooking it from the plastic mounts and pulling it down.
- Step 7.** 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 8.** Install the two (x2) supplied pieces of trim seal onto each side of the fan shroud where it will meet the intercooler.
- Step 9.** Install the aFe intercooler the same way the factory intercooler was using the factory T25 Torx screws and tighten.
- Step 10.** Reconnect the intercooler tubes to the intercooler.
- Step 11.** Install belly pan from **Step 2**.  
Installation is now complete.  
Enjoy and thank you for choosing aFe Power!