## 2008+ SUBARU WRX/STI TOP-MOUNT INTERCOOLER KIT

PARTS LIST AND INSTALLATION GUIDE

### **PARTS LIST**

1PC | BAR-AND-PLATE INTERCOOLER

1PC | INTERCOOLER TO THROTTLE-BODY TRANSITION COUPLER

1PC | PCV HOSE

**1PC** | BYPASS VALVE GASKET

2PC | Y-PIPE TO INTERCOOLER GASKETS

1PC | BLACK NYLON HOSE FITTING, 3/4" I.D.

1PC | BLACK NYLON TEE-HOSE FITTING, 3/4" I.D.

1PC | CARB EO STICKER

### **TOOLS NEEDED**

10MM RATCHET WRENCH 12MM DEEP SOCKET FLATHEAD SCREWDRIVER 5MM ALLEN KEY 3/8" DRIVE RATCHET DIFFICULTY LEVEL: 2/5 3/8" DRIVE SIX INCH EXTENSION INSTALL TIME: 1 HOUR

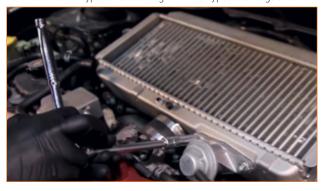
#### **DISCLAIMER**

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating. Serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

### INSTALLATION INSTRUCTIONS

### 01 | REMOVING THE STOCK INTERCOOLER

- 1. Remove the two 10mm bolts holding the vent rail in place.
- **2.** Disconnect the rubber hoses from each side of the vent rail and remove the rail from the engine bay.
- **3.** Remove the two 12mm bolts that secure the bypass valve. You may now remove the bypass valve along with the bypass valve gasket.



- 4. Remove the two driver-side bracket bolts on the intake manifold.
- 5. Remove the two 12mm top-mount intercooler bolts.
- **6.** Using a flathead screwdriver, loosen the hot-side coupler located under the intercooler.
- 7. Using a flathead screwdriver, loosen the two throttle-body clamps.



- 8. Remove the two driver-side bracket bolts on the intake manifold.
- 9. You may now remove the stock top-mount intercooler.
- 10. Remove the stock throttle-body coupler.

#### 02 INSTALLING THE MISHIMOTO INTERCOOLER

1. Now that the stock top-mount intercooler is removed, take out the four 12mm Y-pipe bolts.



- **2.** Reattach the stock Y-pipe to the Mishimoto top-mount intercooler using the provided Y-pipe gaskets.
- **3.** Remove the two rubber mounting bushings from the stock intercooler and install them onto the Mishimoto intercooler.
- **4.** Remove the passenger-side bracket bolt located near the turbo. Replace with a Mishimoto-supplied Allen bolt. This will avoid damaging the intercooler with the stock bolt.
- **5.** Install the Mishimoto throttle-body coupler. Make sure that the smaller diameter portion of the coupler is attached to the throttle body. (Note: Cap Lubricating the hot-side pipe and coupler will make installation easier.)

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- 6. Install the Mishimoto top-mount intercooler.
- 7. Tighten the hot-side clamp using a flathead screwdriver.
- **8.** Tighten the throttle-body clamps using a flathead screwdriver.
- **9.** Reinstall the driver-side bracket, using the three stock 12mm bolts. (Note: It's easier to start with the intercooler-to-bracket bolt first, to prevent the bolt from stripping.)
- 10. Install the passenger-side top-mount intercooler bolt.
- 11. You may now tighten all four intercooler bolts.
- **12.** Reinstall the bypass valve using the supplied gasket and two 12mm bolts.
- **13.** Attach the supplied plastic fittings into the ends of the Mishimoto silicone PCV hose. Press the fittings into the hose until the hose meets the flange. (Tip: Lubricating the ends of the plastic fittings will make installation easier.)



- 14. Reattach each end to the existing vent hose on the intake.
- 15. Route the PCV hose over the intercooler.



- $\textbf{16.} \ \textbf{Connect the final two passenger-side hoses to the PCV hose}.$
- 17. Please place the included CARB EO sticker in a clean, visible location. After that you have now successfully installed the Mishimoto 2008+ Subaru WRX/STI Top-Mount Intercooler Kit. Enjoy!.