

# 2008-2015 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.

### 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.)

CONTINUED ON FOLLOWING PAGE >

# 01

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## INSTALLATION GUIDE

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.



16. Connect the final two passenger-side hoses to the PCV hose.
17. You have now successfully installed the Mishimoto 2008–2015 Subaru WRX/STI Top-Mount Intercooler Kit. Enjoy!