

# SUBARU WRX PERFORMANCE TOP-MOUNT INTERCOOLER AND CHARGE-PIPE SYSTEM, 2015+ PARTS LIST AND INSTALLATION GUIDE

## PARTS LIST

- 1PC| BAR-AND-PLATE INTERCOOLER
- 1PC| INTERCOOLER MOUNTING BRACKET
- 1PC| CHARGE-PIPE ASSEMBLY
- 1PC| AIR DIVERTER WITH ATTACHED RUBBER GASKETS
- 1PC| CHARGE-PIPE-TO-INTERCOOLER HOSE
- 1PC| INTERCOOLER-TO-THROTTLE BODY HOSE
- 3PC| BYPASS-VALVE HOSES
- 2PC| 3" T-BOLT CLAMPS
- 2PC| 3.5" T-BOLT CLAMPS
- 4PC| WORM-GEAR CLAMPS
- 1PC| MOUNTING HARDWARE
- 1PC| CARB EO STICKER

## TOOLS NEEDED

	13MM RATCHET WRENCH
4MM ALLEN KEY	NEEDLENOSE PLIERS
7MM DEEP SOCKET	POP-CLIP PLIERS
8MM DEEP SOCKET 10MM DEEP	CHANNELLOCK PLIERS
SOCKET 12MM DEEP SOCKET 13MM	SMALL FLATHEAD
DEEP SOCKET	SCREWDRIVER
1/4" DRIVE 6" EXTENSION 1/4" DRIVE	LARGE FLATHEAD
12" EXTENSION 1/4" DRIVE RATCHET	SCREW-DRIVER
	WD-40

**INSTALLATION TIME: 2 HOURS**

**DIFFICULTY LEVEL: 3/5**

## 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, as serious damage can occur.
- Please dispose of any liquids properly.
- Raise vehicle only on jack stands or on a vehicle lift.
- 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

1. Remove the two pop clips for the air intake duct. (Flathead screwdriver)
2. Remove the two 10mm fan shroud bolts from the passenger-side fan. Before removing the entire fan shroud, make sure to disconnect the plug connections for the shroud. (10mm socket)
3. Loosen the worm-gear clamp that connects the charge-pipe to the intercooler. (Flathead screwdriver)



4. Remove the two hoses connected to the induction housing in front of the bypass valve (BPV).



5. Remove the two 12mm bolts that hold the charge-pipe to the turbo.



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6. Loosen the charge-pipe clamp on the bypass valve. (8mm socket)
7. Below the charge-pipe clamp on the bypass valve, remove the second clamp. (Needlenose pliers)
8. Disconnect the small hose from the bypass valve.
9. Pull the entire charge-pipe up and out of the engine bay. You may need to wiggle the bypass valve to free it from the induction housing. Remove the bypass valve and set it aside.



10. Remove the O-ring from the turbo side of the charge-pipe and install it on the Mishimoto charge-pipe.



11. Using three worm-gear clamps, assemble the bypass valve by installing the two Mishimoto BPV hoses onto the charge-pipe. Leave the worm-gear clamps slightly loose for now so you can orient the hoses correctly once the charge-pipe is installed.



12. Remove the small vacuum hose for the bypass valve from the port on the side of the engine.

13. Insert the provided Mishimoto vacuum hose for the bypass valve into the port on the side of the engine.



14. Install the Mishimoto charge-pipe in the engine bay. Using the two 12mm bolts you removed (step 5), tighten the charge-pipe.

15. Insert the CNC-machined end of the BPV hose into the induction housing and reinstall the lower spring-clip hose that connects from the BPV hose to the induction housing.



16. Tighten the two worm-gear clamps that connect the bypass valve to the charge-pipe. (8mm socket)

17. Tighten the bypass valve hose onto the bypass valve. (flathead screwdriver)

Make sure to reroute the two hoses that go into the induction housing once everything is tightened on the bypass valve and charge-pipe.

18. Reinstall the fan shroud, and plug in the fan shroud electrical connection.

19. Reattach the fan shroud to the radiator using the two 10mm bolts previously removed (step 2).

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20. Remove the vacuum hose that routes near the intercooler.



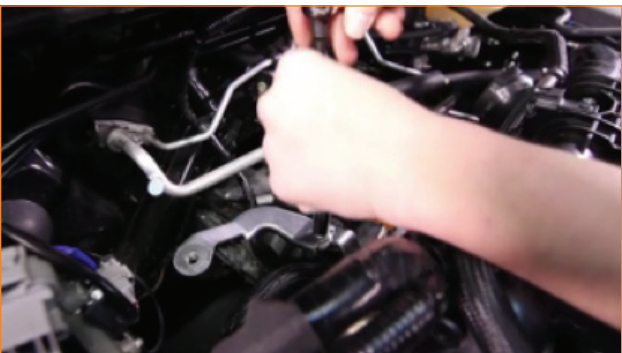
21. Loosen the clamp that connects the throttle body coupler to the intercooler. (Flathead screwdriver)

22. Loosen the three 12mm bolts that hold the bracket to the intercooler.



23. Loosen the 12mm bolt on the passenger-side of the intercooler, and remove the stock intercooler.

24. Fully remove the bracket on the passenger-side.



25. Remove the stock throttle body coupler. (Flathead screwdriver)

26. Install the Mishimoto throttle body coupler. The logo should face forward into the intercooler. (Flathead screwdriver)



27. Install the provided Mishimoto intercooler bracket on the passenger-side for the intercooler. Do not fully tighten.

28. Remove the rubber bushings and spacers from the stock intercooler, and install them on the Mishimoto intercooler.



29. Install the Mishimoto intercooler.

30. Install the bracket on the driver side of the intercooler, and hand-tighten the bolt that attaches the intercooler to the bracket. Make sure the spacer is seated properly in between. Fully tighten the other 12mm bolts.



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31. On the passenger-side, install the charge-pipe-to-intercooler coupler. Before you install the charge-pipe coupler, apply WD-40 to the coupler.



32. Tighten the T-bolt clamp. (10mm socket)

33. Using one 12mm nut and bolt, tighten the bracket that attaches to the intercooler on the passenger-side.



34. Tighten the bracket bolt under the intercooler on the passenger side. (13mm ratchet wrench)

35. Tighten the second T-bolt clamp on the charge-pipe-to-intercooler coupler. (10mm deep socket)

36. Tighten the worm-gear clamp holding the driver-side coupler on the intercooler. (Flathead screwdriver)

37. Reattach the intake duct using the two pop clips (step 1).

38. Remove the 12 pop clips that hold the heat shielding on the underside of the hood, and remove the heat shielding.



39. Remove the 14 pop clips and two 8mm bolts that hold the inner panel for the hood scoop.



40. Remove the stock rubber hood gasket by prying off the small nonreusable clips.

41. Using the seven provided pop clips, install the Mishimoto hood scoop.



42. Install the last provided bracket for the air scoop using five pop clips. Be sure this piece is installed in the correct orientation (facing downward as shown in the picture below).



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43. Reinstall the inner panel for the hood scoop using the 14 pop clips and two 8mm bolts (step 39).

44. Reinstall the heat shielding cover using the 12 pop clips (step 38).

45. Loosen the 12mm bolt on the driver-side mounting bracket.

46. Install the intercooler air diverter by lining up the bracket on the driver side first and then tightening.



47. Loosen the 12mm bolt on the passenger-side mounting bracket.



48. Install the other side of the air diverter onto the passenger-side mounting bracket.

49. Fully tighten the two bolts so that the air diverter is snug against the intercooler.



50. Please place the included CARB EO sticker in a clean, visible location. Enjoy your new 2015 Subaru WRX Performance Top-Mount Intercooler and Charge-pipe System!