

# 2015 SUBARU WRX/STI DOWN PIPE

## PARTS LIST AND INSTALLATION GUIDE

### PARTS LIST

- 1PC** | STAINLESS STEEL DOWNPIPE WITH 4-BOLT TURBO FLANGE AND 2-BOLT CAT FLANGE
- 1PC** | STAINLESS STEEL TRANSMISSION BRACKET (MANUAL OR CVT)
- 1PC** | HIGH-FLOW CATALYTIC CONVERTER (OPTIONAL)
- 1PC** | ADDITIONAL M18 X 1.5MM O2 SENSOR BUNG WITH PLUG OPTIONAL AIRBOX WITH PROTECTIVE EDGING
- 1PC** | 4-BOLT FLANGE GASKET
- 1PC** | 2-BOLT FLANGE GASKET
- 4PC** | M10 X 1.25MM EXHAUST STUDS
- 2PC** | M10 X 1.25MM X 40MM HEX BOLTS, STAINLESS STEEL
- 6PC** | M10 X 1.25MM SERRATED FLANGE NUTS, STAINLESS STEEL
- 2PC** | M10 X 1.25MM X 16MM HEX BOLTS (WITH 5MM HEAD HEIGHT), STAINLESS STEEL
- 4PC** | M10 WASHERS, STAINLESS STEEL
- 2PC** | M8 X 1.25MM X 20MM FLANGE BOLTS, STAINLESS STEEL
- 1PC** | M6 X 1.0MM X 10MM FLANGE BOLT, STAINLESS STEEL

### TOOLS NEEDED

- |                          |                       |
|--------------------------|-----------------------|
| 12MM DEEP SOCKET         | 3/8" DRIVE RATCHET    |
| 13MM DEEP SOCKET         | 14MM RATCHET WRENCH   |
| 14MM SOCKET              | 14MM WRENCH           |
| 14MM DEEP SOCKET         | 22MM WRENCH           |
| 15MM DEEP SOCKET         | POP-CLIP PLIERS       |
| E10 TORX SOCKET          | FLATHEAD SCREWDRIVER  |
| 3/8" DRIVE 6" EXTENSION  | DIFFICULTY LEVEL: 3/5 |
| 3/8" DRIVE SWIVEL SOCKET | INSTALL TIME: 2 HOURS |

### DISCLAIMER

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

### INSTALLATION INSTRUCTIONS

#### 01 | REMOVING THE FACTORY DOWNPIPE

1. Raise vehicle securely on jackstands or a two-post lift
2. Remove the plastic undertray. (9x large clips, 4x small clips, 2x 12mm bolts)
3. Remove the aluminum undertray. (4x 14mm bolts)



4. Disconnect both oxygen (O2) sensors. Each sensor has a unique plug.
5. Remove both O2 sensors. (22mm wrench)
6. Remove the bolts and bracket on the bottom of the water pump. (1x 14mm bolt, 1x 12mm bolt)



7. Remove the downpipe bolt underneath the water pump. (1x 14mm bolt)
8. Loosen the turbo-to-downpipe nuts. Remove the top two nuts and the mounting bracket. (4x 14mm bolts)
9. Remove the small bracket to the left of the water pump. (2x 12mm bolts)
10. Remove the ground strap for the exhaust and set aside. (1x 10mm bolt)

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# 01

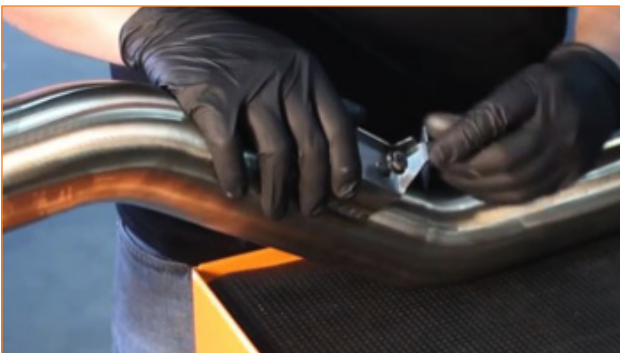
11. Remove the rear spring bolts from the exhaust flange. (2x 12mm, 2x 14mm)
12. Remove the bracket bolt from the downpipe-to-transmission mount. (1x 14mm)
13. Take off the loosened turbo-to-downpipe nuts and remove the stock downpipe from the vehicle.

## 02 | INSTALLING THE MISHIMOTO DOWNPIPE

1. Replace the lower subframe bolts (2x 14mm bolts) with the Mishimoto-provided bolts (2x 15mm).
2. Remove the donut gasket from the stock exhaust and swap it onto the 3"-to-2.5" adapter.



3. Replace any damaged studs with the supplied studs in the kit.
4. Install the supplied turbo-to-downpipe gasket.
5. Install but don't fully tighten the supplied transmission mount bracket onto the Mishimoto downpipe. (2x 13mm bolts)



6. Install the Mishimoto downpipe, and hand-tighten the downpipe-to-transmission bracket. (1x 14mm bolt)
7. Reinstall the top downpipe bracket onto the studs. (2x 14mm nuts)

8. Place the supplied 3" gasket over the adapter and slide it into place.
9. Using the supplied stainless steel hardware, install the adapter onto the end of the Mishimoto downpipe. (2x 14mm bolts and nuts)
10. Using a torque wrench, tighten the four turbo-to-downpipe nuts to 28-32 ft-lb. (4x 14mm nuts)
11. Attach the lower bolt for the downpipe mounting bracket. (1x 14mm bolt)
12. Attach the small bracket to the left side of the water pump. (2x 12mm bolts)
13. Reattach the bracket to the bottom of the water pump. (1x 14mm bolt, 1x 12mm bolt)
14. Fully tighten all hardware for these three brackets.
15. Reinstall and connect the O2 sensors. (22mm wrench)
16. Reattach the ground strap to the exhaust. (1x 10mm bolt)
17. Tighten the downpipe-to-transmission bolt. (1x 14mm bolt)
18. Tighten the bracket bolts to the transmission mount. (2x 13mm bolts)
19. Tighten the rear exhaust bolts and nuts. (2x 14mm nuts and bolts)
20. Check the extra O2 bung.



21. If you are installing the Mishimoto catless downpipe, please skip to step 29. If you are installing the Mishimoto catted downpipe and utilizing Mishimoto EcuTek tunes, please proceed to step 22. If you are installing the Mishimoto catted downpipe and plan on having your car professionally tuned/calibrated, you must consult with your tuner for recommendations on how to handle boost pills.
22. Locate the black rubber hoses leading to the wastegate actuator and turbo compressor housing.
23. Using needlenose pliers, squeeze the ends of the clamp holding the hose in place and slide it back.

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24. Within the hose, you will find a small metal tube (known as a "boost pill").



25. Carefully remove the boost pill from the wastegate actuator hose, using your pliers to gently guide it out.

26. Reconnect and clamp the hose back to the black T fitting.



27. Reinstall the aluminum undertray. (4x 14mm bolts)

28. Reinstall the plastic undertray. (2x 12mm bolts, 4x small pop clips, 9x large pop clips).

29. You have now successfully installed the Mishimoto 2015 WRX Downpipe. Enjoy!