



GrimmSpeed Install Guide Series
Installing the GrimmSpeed Up-Pipe
2002+ Subaru WRX/STi/LGT/FXT
Updated 3/15/18



Introduction:

This guide will illustrate the installation of the GrimmSpeed Subaru Up-Pipe. The difficulty here is moderate, so take your time and enjoy the job! Install time is around 1 hour.

Tools Used:

The tools listed below are suggested for this task. Optional tools may be noted.

- 10mm, 12mm, 14mm and o2 sensor sockets and wrench
 - 6mm allen wrench
 - Flathead Screwdriver
- Floor Jack and small block of wood

Be careful; not to drop the Hood on yourself or your hands or fingers during the installation!

If you have any questions don't hesitate to contact us directly!

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Procedure:

Park your vehicle on a level surface. Fully engage your parking brake and put wheel stops on the front and rear wheels to keep the vehicle from rolling.

All GrimmSpeed exhaust components are intended for Off-Road use only.

1. Remove plastic splash guard (3) 10mm bolts and 4 plastic clips.
2. Remove small plastic access panel in fender wheel. This will give you access to o2 sensor.
3. Remove o2 sensor from passenger side exhaust collector with o2 sensor socket.
4. Remove passenger side exhaust collector heat shield (4) 12mm bolts.
5. Remove (2) 14mm bolts that connect passenger side exhaust collector to up pipe.
6. Remove (2) 14mm bolts that connect passenger side exhaust collector to crosspipe.
7. Remove (3) 14mm nuts that connect passenger side exhaust collector to engine head. Drop passenger side exhaust collector.
8. Remove BOV from intercooler. (2) 12mm bolts.
9. Remove intercooler. Remove (2) 12mm bolts that go to intercooler mounts. (2) hose clamps, one goes to TB hose, one goes to turbo outlet.
10. Remove the turbo heatshield (6) 10mm bolts.
11. Remove up pipe heat shield. (2) 10mm bolts.
12. Remove the (3) 14mm nuts and (2) 14mm nuts/bolts connecting the downpipe to the turbo.
13. Remove downpipe from cat-back (2) 14mm bolts.
14. Remove downpipe o2 sensor with o2 sensor socket.
15. Remove (1) 14mm bolt from lower transmission bracket.
16. Remove (1) 14mm bolt from upper transmission bracket.
17. Using a flat-head screwdriver, pry the downpipe support bracket out from the lower transmission bracket.
18. Drop downpipe.
19. Unplug the factory EGT sensor in up pipe.
20. Remove (5) 14mm nuts that hold top of up pipe onto turbo.
21. Remove passenger side engine mount (1) 14mm nut/washer.
22. Carefully raise engine up with jack and block of wood approx. 2 inches.

23. Drop Up pipe out down to the ground. Be careful not to damage the EGT sensor on the way out.
24. Place (5) studs in top flange of EWG up pipe.
25. Loosely install EWG up pipe to turbo studs/nuts, remembering to use new gasket. If you are having troubles mating EWG up pipe to turbo, try installing with only a couple of the studs installed in the up pipe. Once the EWG up pipe is on the turbo you can then drop the other studs down from the top.
26. Drop engine back down.
27. Tighten engine mount bolt with washer.
28. Loosely install passenger side exhaust manifold collector to engine head. Remember to replace gasket.
29. Loosely install (2) 14mm bolts from EWG up pipe to passenger side exhaust manifold collector. Remember to replace gasket.
30. Loosely install (2) 14mm bolts from crosspipe to passenger side exhaust manifold collector. Remember to replace gasket.
31. First torque back-most 14mm nut on passenger side exhaust manifold collector to engine head. Followed by remaining (2) 14mm nuts that hold passenger side exhaust manifold collector to engine head.
32. Torque (2) 14mm nuts/bolts from passenger side exhaust manifold collector to EWG up pipe.
33. Torque (2) 14mm nuts/bolts from passenger side exhaust manifold collector to crosspipe.
34. Torque (5) 14mm nuts from EWG up pipe to turbo.
35. Loosely install EWG Dump Tube to Wastegate (2) 6mm allen bolts. Remember gasket.
36. Install wastegate to EWG up pipe side outlet flange (2) 6mm allen bolts. Torque allen head bolts. Remember gasket.
37. Torque dump tube to wastegate bolts.
38. Remove OEM Internal wastegate from turbo.
39. Install Internal Wastegate Bracket to keep internal wastegate door shut(if applicable).
40. Reinstall passenger side exhaust manifold collector o2 bung.
41. Reinstall downpipe.
42. Reinstall plastic splash guard.
43. Reinstall turbo heatshield.
44. Reinstall intercooler and BOV.

NOTE: It is highly recommended to install an aftermarket boost controller when using an EWG setup.

NOTE: Be creative while getting in different positions to get the 6mm allen head bolts tightened. It is a tight fit but if you try different angles, you can reach them.