

2014–2018 SUBARU FORESTER XT

RACE INTAKE

PARTS LIST AND INSTALLATION GUIDE



PARTS INCLUDED

- 1PC** | ALUMINUM INTAKE PIPE
- 1PC** | SILICONE TURBO INLET HOSE
- 1PC** | HIGH-FLOW, OILED FILTER
- 1PC** | AIRBOX
- 1PC** | MAF EXTENSION HARNESS
- MOUNTING HARDWARE

TOOLS NEEDED

- | | |
|------------------------|--------------------|
| FLATHEAD SCREWDRIVER | 8MM SOCKET |
| PHILLIPS SCREWDRIVER | 10MM SOCKET |
| 2.5MM ALLEN KEY/SOCKET | 1/4" DRIVE RATCHET |
| 4MM ALLEN KEY/SOCKET | 10MM WRENCH |

INSTALL TIME **1 HOUR**

INSTALL DIFFICULTY     

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.

CAUTION

Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely before servicing it in any way.

NOTE

This air intake requires a tune to maintain safe air/fuel ratios. Be sure to have a tuning option ready before proceeding with installation.

INSTALL PROCEDURE

01. Set the vehicle on an automotive lift, or raise it with a jack and place it securely on jack stands. Refer to your owner's manual for safe lifting points if you are unsure.
02. Remove the two pop-clips that secure the aluminum skid panel to the underside of the vehicle. (2x pop-clips)
03. Remove the four bolts that secure the skid panel to the underside of the vehicle. Then remove the aluminum skid panel. (4x 10mm bolts)
04. Remove the two pop-clips that secure the passenger-side wheel liner to the front bumper cover. Then pull the wheel liner down to access the airbox. (2x pop-clips)
05. Loosen the worm-gear clamp that secures the rubber intake pipe to the turbocharger inlet.
06. Remove the nut that secures the airbox to the support bracket, but leave the rubber isolator attached to the bracket. The Mishimoto intake will attach to this isolator. (1x 10mm nut)



07. Remove the rubber intake pipe from the turbocharger inlet.
08. Remove the two pop-clips that secure the intake duct to the radiator support. Then remove the intake duct. (2x pop-clips)

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09. Disconnect the mass airflow (MAF) sensor from the electrical harness by depressing the lock tab on the connector and pulling it off the sensor.
10. Remove the bolt that secures the airbox to the frame rail. (1x 10mm bolt)
11. Remove the two nuts that secure the airbox to the inside of the passenger-side fender (2x 10mm nuts)
12. Release the two clips that secure the airbox lid to the airbox, and separate the airbox. Then remove the air filter.
13. Remove the airbox lid and integrated sound generator by lifting it directly upward.
14. Lift the airbox upward, and loosen the clamp that secures the airbox to the intake pipe. Separate the airbox from the intake pipe, and remove both components from the vehicle.



15. Transfer the MAF sensor. Remove the two Phillips screws that secure the MAF sensor to the airbox. Remove the sensor from the airbox by sliding it out, and transfer it to the Mishimoto intake pipe. Secure the MAF sensor using the two provided Allen bolts, then attach the provided extension harness to the MAF sensor. (2x Phillips screws, 2x 2.5mm Allen bolts)
16. Install the provided isolator bushing. Locate the studs on the fender that secured the original airbox. Install the isolator bushing by threading it onto the forward-most stud until it is snug. (1x threaded isolator bushing)



17. Remove the bolt that secures the base of the ECU mounting bracket to the fender. (1x 10mm bolt)



18. Install the Mishimoto airbox. Gently compress the sides of the airbox and slide it into place. Install the bolt you just removed from the ECU bracket through the rear mounting hole of the airbox, but do not fully tighten it yet. Slip the stud on the isolator bushing into the forward mounting hole, and thread one of the original airbox nuts onto the stud. Secure the base of the airbox using the original airbox mounting bolt. Now go back and fully tighten all the mounting hardware. (2x 10mm bolts, 1x 10mm nut)
19. Install the coupler onto the turbocharger inlet, and slip two worm-gear clamps over the coupler. Orient the clamps so that the adjustment nuts will be accessible. (2x worm-gear clamps)

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20. From underneath the vehicle, slide the Mishimoto intake pipe into place, and slip it into the coupler at the turbocharger inlet. Secure the pipe to the support bracket using the original nut. (1x 10mm nut)



21. Tighten the worm-gear clamps that secure the Mishimoto intake pipe to the turbocharger inlet.

22. Install the Mishimoto air filter. Slip the air filter over the intake pipe, and secure it with the worm-gear clamp.
23. Connect the electrical harness to the MAF extension harness.
24. Install the airbox lid, and secure it with the three provided Allen bolts. (3x 4mm Allen bolts)
25. Install the intake air duct, and secure it with the two original pop-clips (2x pop-clips)
26. Tuck the passenger-side fender liner back into place, and secure it with the two original pop-clips. (2x pop-clips)
27. Install the aluminum skid panel, and secure it with the original hardware. (4x 10mm bolts, 2x pop-clips)

Congrats! You just finished installing the 2014–2018 Subaru Forester XT Race Intake.



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