

2013+ SUBARU BRZ / SCION FR-S

PLUG-N-PLAY BLACK PERFORMANCE ALUMINUM FAN SHROUD

PARTS LIST AND INSTALLATION GUIDE



PARTS INCLUDED

- 1PC** | ALUMINUM FAN SHROUD
- 2PC** | 12" MISHIMOTO SLIM ELECTRIC FANS
- 2PC** | OEM STYLE FAN PLUGS
- 3PC** | OVERFLOW TANK MOUNTING RACKET & POSTS

TOOLS NEEDED

- 10MM SOCKET
- 12MM SOCKET
- 1/4" DRIVE 6" EXTENSION
- 1/4" DRIVE RATCHET
- 12MM RATCHET WRENCH
- PHILLIPS SCREWDRIVER
- FLATHEAD SCREWDRIVER

INSTALL TIME 1.5 HOURS

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.

INSTALL PROCEDURE

- 01.** Set the vehicle on an automotive lift, or raise it up 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.** Disconnect the negative battery cable to prevent engine fans and electrical accessories from turning on during the installation.
- 03.** Remove the three bolts that secure the intake box to the vehicle. (3x 10mm bolts)
- 04.** Disconnect the connector from the mass airflow (MAF) sensor by pushing down on the locking tab and sliding the connector off the sensor. Disconnect the electrical harness from the airbox by prying the tree-clip out of the airbox.
- 05.** Loosen the clamp holding the intake hose to the intake box, and slide the intake hose off the airbox.
- 06.** Remove the airbox from the vehicle by lifting it upward.
- 07.** Remove the five bolts that secure the trim piece to the top of the bumper cover. (5x 10mm bolts)



- 08.** Remove the two pop-clips that secure the trim piece to the top of the bumper cover. (2x pop-clips)
- 09.** Remove the trim piece from the vehicle.

CONTINUED ON FOLLOWING PAGE

01

2013+ SUBARU BRZ / SCION FR-S PLUG-N-PLAY BLACK PERFORMANCE ALUMINUM FAN SHROUD INSTALLATION GUIDE



10. Remove the four pop-clips that secure the bumper cover to the inner wheel well. Do this on both sides (8x Phillips-head pop-clips)
11. Remove the side marker light housings from the bumper by pulling the top of the light outward to release it. Slide the housings out of the bumper, and disconnect the electrical harness. Do this on both sides. Take care when removing these lights as the clips are fragile.



12. Remove the pop-clip behind the side marker light; it connects the bumper cover to the fender. Do this on both sides. (2x pop-clips)



13. Remove the ten pop-clips that secure the splash shield to the bottom lip of the bumper cover. (10x pop-clips)
14. Remove the two bolts that secure the splash shield to the front bumper cover. (2x 10mm bolts)

15. Release the front bumper cover from the vehicle. Pull outward from the corner of the bumper cover (where it meets the fender) to release the clips, but do not fully remove the bumper cover. Reach behind the bumper cover and disconnect the electrical harness from the fog light assemblies and illuminated emblem (if equipped). Remove the front bumper cover from the vehicle.



16. Remove the two bolts that secure the air snorkel to the radiator support, and remove the air snorkel from the vehicle. (2x 10mm bolts)
17. Remove the two pop-clips that secure the plastic air-diversion panel to the radiator support. (2x pop-clips)
18. Remove the two bolts that secure the base of the radiator support. The bolts are located in the center of the vehicle, just in front of the crank pulley of the engine. (2x 12mm bolts)



CONTINUED ON FOLLOWING PAGE

02

2013+ SUBARU BRZ / SCION FR-S PLUG-N-PLAY BLACK PERFORMANCE ALUMINUM FAN SHROUD INSTALLATION GUIDE



19. Remove the bolts that secure the coolant overflow reservoir to the fan shroud. Slide the overflow hose out of the reservoir and set it aside. Then remove the overflow reservoir. (2x 10mm bolts)
20. Disconnect the electrical harness from each fan by depressing the locking tab and sliding the connectors apart. Then release the harness from the clips that secure it to the shroud, using a flathead screwdriver.
21. Remove the four bolts that secure the top of the radiator support. (4x 12mm bolts)
22. Lift the radiator support up and out of the engine bay. It is still attached by the hood-latch cable, so just set it aside.
23. Release the fan shroud from the radiator by squeezing the tabs located on either side of the shroud and sliding the fan shroud back toward the engine. Remove the shroud from the vehicle by lifting it upward.



24. Prep the Mishimoto fan shroud. Attach the provided plate to the two-bolt flange near the bottom of the fan shroud, but do not fully tighten. (2x 10mm bolts)



25. There are two holes along the upper edge of the fan shroud. Install the long dowel to the hole closest to the corner of the fan shroud, but do not fully tighten. Install the short dowel to the hole farthest from the corner on the fan shroud, but do not fully tighten. (2x 10mm bolts, 2x dowels)



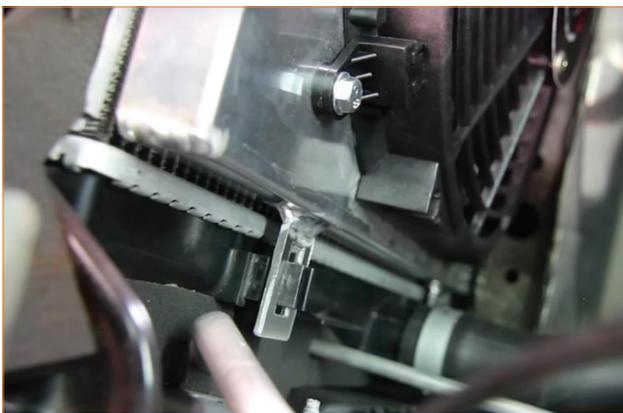
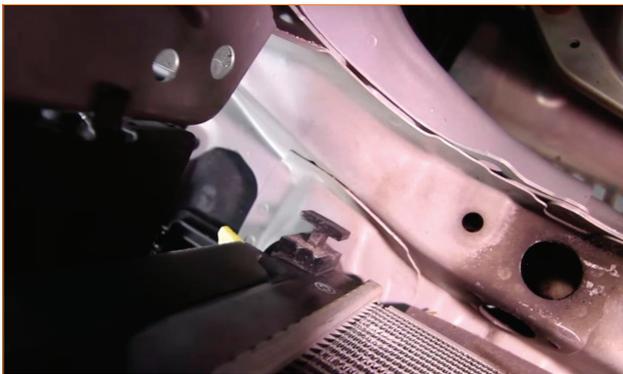
CONTINUED ON FOLLOWING PAGE

03

2013+ SUBARU BRZ / SCION FR-S PLUG-N-PLAY BLACK PERFORMANCE ALUMINUM FAN SHROUD INSTALLATION GUIDE



26. Install the overflow tank by slipping it into the lower bracket and using the original reservoir bolts to attach it to the dowels. Now fully tighten the mounting bolts that secure the dowels and lower plate.
27. Once the dowels are fully tightened, remove the overflow tank from the fan shroud. (2x 10mm bolts)
28. Install the Mishimoto fan shroud. Lower the fan shroud into the engine bay. Align the slotted brackets on the bottom of the fan shroud with the plastic T-tabs on the radiator so that they fit together. Align the rectangular brackets on the Mishimoto fan shroud with the upper mounting tabs on the radiator, and press the fan shroud over them to secure it.



29. Connect the electrical harness to the fans.

30. Loosely install the two tree-clip zip ties to the electrical harness. Push the clips into the holes in the bottom of the fan shroud. Check to make sure that the harness is led properly, and then fully tighten the zip ties. (2x tree-clip zip ties)
31. Install the overflow reservoir onto the fan shroud. (2x 10mm bolts)
32. Install the overflow hose into the reservoir.
33. Install the radiator support, making sure that the mounting tabs on the air-diverter plate are on the outside of the support. Tighten the radiator support mounting hardware. (6x 12mm bolts)
34. Install the two pop-clips that secure the air-diversion panel to the radiator support. (2x pop-clips)
35. Install the air snorkel to the radiator support. (2x 10mm bolts)
36. Install the airbox, making sure to align it with the air snorkel. (3x 10mm bolts)
37. Attach the intake hose to the airbox, and tighten the clamp (1x 10mm clamp)
38. Connect the electrical harness to the MAF sensor, and secure the electrical harness with the tree-clip.
39. Test the fans. Start the vehicle and turn on the AC (if equipped). Both fans should now be running. Turn the AC off, and allow the vehicle to warm up to operating temperature. The fans should cycle on, once the vehicle is warmed up completely.
40. Install the front bumper cover. Connect the electrical harness to the fog lights and illuminated emblem (if equipped). Make sure that the splash shield panel is tucked above the front bumper cover. Slide the bumper into place. Feed the electrical connection for the side marker up through the panel hole. Working from underneath the headlight toward the side marker, snap the bumper cover into place.
41. Install the trim piece on the top of the bumper cover. (2x pop-clips, 5x 10mm bolts)

CONTINUED ON FOLLOWING PAGE

2013+ SUBARU BRZ / SCION FR-S
PLUG-N-PLAY BLACK PERFORMANCE ALUMINUM FAN SHROUD
INSTALLATION GUIDE



- 42. Install the two pop clips that secure the bumper cover to the fenders (behind where the side marker lights are mounted). (2x pop-clips)
- 43. Connect the side markers to the electrical harness, then install the side markers.
- 44. Install the four Phillips-head pop-clips that secure the fender liners on each side. (8x pop-clips)

- 45. Install the two bolts that secure the splash shield to the bumper cover. (2x 10mm bolts)
- 46. Install the ten pop-clips that secure the splash shield to the bumper cover. (10x pop-clips)

Congrats! You just finished installing the 2013+ Subaru BRZ / Scion FR-S Plug-N-Play Black Performance Aluminum Fan Shroud

