

# 2016+ MAZDA MIATA PERFORMANCE AIR INTAKE PARTS LIST AND INSTALLATION GUIDE



## PARTS INCLUDED

- |  |  |
|--|--|
| <b>1PC</b>   ALUMINUM INTAKE PIPE        | <b>1PC</b>   SILICONE FRESH-AIR DUCT HOSE        |
| <b>1PC</b>   HIGH-FLOW, OILED FILTER     | <b>1PC</b>   SILICONE COOLANT OVERFLOW TANK HOSE |
| <b>2PC</b>   ALUMINUM AIRBOX             | <b>3PC</b>   WORM-GEAR CLAMPS                    |
| <b>1PC</b>   SILICONE SOUND IMPOSER HOSE | MOUNTING HARDWARE                                |

## TOOLS NEEDED

- |                        |                      |
|------------------------|----------------------|
| HOSE-CLAMP TOOL        | 4MM ALLEN KEY/SOCKET |
| FLATHEAD SCREWDRIVER   | 10MM SOCKET          |
| PHILLIPS SCREWDRIVER   | 1/4" DRIVE SOCKET    |
| NEEDLENOSE PLIERS      | 1/4" DRIVE EXTENSION |
| 2.5MM ALLEN KEY/SOCKET |                      |

**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

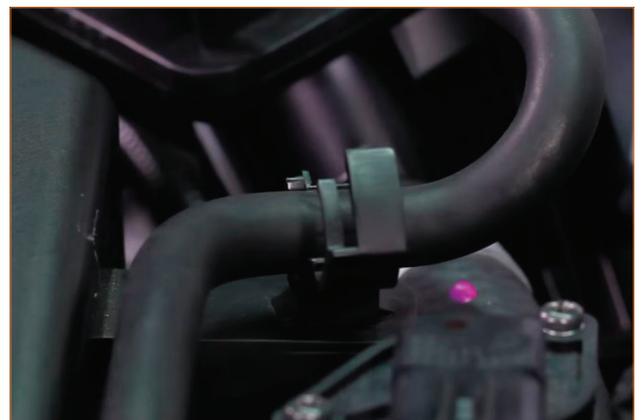
Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely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

## INSTALL PROCEDURE

- 01.** Compress the clamp that secures the sound generator tube to the intake tubing, and separate the sound generator tube.
- 02.** Loosen the worm-gear clamps at both ends of the intake tubing.
- 03.** Disconnect the wiring harness from the mass airflow (MAF) sensor. Depress the locking tab on the connector, and pull it off the sensor.
- 04.** Release the clip that secures the wiring harness to the airbox. Squeeze the tabs on the bottom of the clip, then slide it out of the airbox.



- 05.** Release the clip that secures the coolant overflow hose to the top of the airbox.



- 06.** Remove the bolt that secures the airbox to the radiator support next to the coolant overflow reservoir. (1x 10mm bolt)

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07. Remove the cap and connected overflow hose from the coolant reservoir. Clean up any spilled coolant, and move the hose out of the way.
08. Release the two clips that secure the airbox lid. Lift up on the passenger side of the airbox lid, and slide the lid toward the passenger side of the vehicle to release the lid from the airbox. Pull the intake tubing off the throttle body, then remove the airbox lid and intake tubing from the vehicle.
09. Remove the two screws that secure the MAF sensor to the stock airbox, and slide the sensor out of the housing. Set the sensor aside in a safe place. (2x Phillips screws)
10. Remove the airbox from the vehicle by lifting it directly upward. The box is held in by two rubber grommets. Remove the air filter from the airbox.
11. Remove one of the large rubber mounting grommets from the stock airbox. This will be used to install the Mishimoto intake. (1x rubber mounting grommet)
12. Remove the small rubber bushing from the stock airbox. Slide the metal collar out of the bushing, then remove the bushing. (1x rubber bushing)



Rubber grommet, bushing, and metal collar from stock airbox

13. Install the mounting brackets on the Mishimoto airbox using the four supplied Allen bolts. On this prototype airbox, the brackets were welded on. (4x 4mm Allen bolts)
14. Install the large rubber mounting grommet to the bracket near the base of the Mishimoto airbox. (1x rubber mounting grommet)

15. Install the small rubber bushing to the bracket near the top of the Mishimoto airbox. After installing the rubber bushing, insert the metal collar. (1x rubber bushing)
16. Locate the last bracket in your kit. Slip the smaller end of this bracket under the stock bracket located just above the lower radiator hose, and secure it with the supplied Allen flange bolt. (1x 4mm Allen flange bolt)



17. Install the coupler over the throttle body, and slip two worm-gear clamps over the coupler. Orient the clamps so that the adjustment nut will be accessible. Then tighten the clamp that secures the coupler to the throttle body. (2x worm-gear clamps)
18. Install the Mishimoto intake pipe to the airbox. Slide the intake pipe into the key-shaped opening of the airbox, then turn the pipe to orient it for installation. When properly installed, the flange for the MAF sensor will face toward the open lid of the airbox.
19. Lower the airbox into place. Slide the large rubber mounting grommet over the post. Locate the lower bracket you installed earlier and align it with the hole in the bottom of the airbox. Secure the airbox to this bracket with the supplied Allen flange bolt. (1x 4mm Allen flange bolt)

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20. Install the air filter, and slide the intake pipe into the coupler at the throttle body. Tighten the clamp that secures the intake pipe to the throttle body. Then tighten the clamp on the air filter.
21. If you are keeping the sound generator, install the small coupler for the sound generator tube to the bung on the intake pipe. Slip two worm-gear clamps over the coupler, and install the sound generator tube. Then tighten both clamps. (2x worm-gear clamps)
22. If you are deleting the sound generator, install the sound generator delete hose to the bung on the intake pipe. Slip a worm-gear clamp over the coupler, and secure it to the intake pipe. Remove the PCV hose from the valve cover by pulling it off. Install the other end of the delete hose to this port. There is no need for a clamp at this connection. (1x worm-gear clamp)
23. Install the MAF sensor. Slip the sensor into the intake pipe. Secure the sensor with the two provided Allen bolts. Feed the wiring harness under the intake pipe, through the slot in the airbox, and connect it to the sensor. (2x 2.5mm Allen bolts)
24. Secure the airbox to the radiator support using the original bolt. (1x 10mm bolt)
25. Install the Mishimoto airbox lid, and secure it with the four provided Allen bolts and washers. (4x 4mm Allen bolts, 4x washers)
26. Install the coolant overflow hose and reservoir cap.
27. Install the air inlet coupler. Slip the coupler over the air inlet duct and the Mishimoto airbox inlet. Secure the coupler with the two worm-gear clamps. (2x worm-gear clamps)

**Congrats! You just finished installing the 2016+ Mazda Miata Performance Air Intake.**

