

CorkSport Power Series Intake Mazda 2



NOTE: These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation.



NOTE: These installation instructions are for use with a 2011 Model year, if you have a different generation, please contact us for the appropriate instructions for your vehicle.



WARNING: Disconnect the negative terminal of the battery prior to starting installation. This promotes a fresh learning cycle by the engine management system which will provide the best results for your car.





Part Number: Mz2-6-117 Time Estimate: 20-30 min Wrench Rating: 2/5	Model Mazda 2	Year 2011	Trim All (1.5L)
TOOLING LIST: 3/8 Drive Ratchet 10mm Long socket 3mm Allen Wrench Small Phillips Screwdriver Small Flathead Screwdriver OPTIONAL TOOLING: 10mm End Wrench Silicone Spray		PARTS LIST: Molded Silicone Coupler Aluminum MAF Housing w/ 2x Stainless Steel Inserts Corksport Dryflow Air Filter 1x 70-78mm T-Bolt Clamp 2x 63-71mm T-Bolt Clamps 1x 3/8" x 1/2" double ended barbed fitting 2x 10in of 4mm Diameter Silicone Hose	

Installation Instructions:

Corksport Short Ram Intake

For the 2011+ Mazda 2


How the Instructions Work

To best cover all of our customers experience levels and familiarity with the systems on their Mazda, we have broken our instructions down into numbered steps, each of which has the core information in the header with additional detail as needed depending on your experience. If you have a high level of experience, you can just use the checklist below and then skip to the step number where you need help or assistance. Video assistance may also be available for certain steps and is indicated by the HD icon:  Areas where there is a safety concern are indicated by the warning icon:  Cautionary areas (where parts are fragile, etc) are indicated by the caution icon:  Key tips are indicated with the light bulb icon: 

Overview/Checklist:

This is an overview of each of the steps of the build. You can use this as a reference and a checklist as you button up the work on the car.


1. Remove Factory Airbox Assembly

- 1a) Disconnect the Negative Battery Terminal
- 1b) Remove the intake pipe using a flathead screwdriver
- 1c) Remove the ECU wiring cover
- 1d) Disconnect the MAF housing harness plug
-  Caution: Handle MAF sensor with care
- 1e) Remove MAF sensor
- 1f) Locate and remove the three (3) air temperature sensor hose
- 1g) Remove the air temperature sensor by pulling up and out
- 1h) Loosen the two (2) worm clamps and remove the rubber elbow

2. Assembling the Power Series Intake System

- 2a) Install MAF sensor into CS MAF housing
- 2b) Attach the coupler and air filter to MAF housing using supplied T-bolt clamps
- 2c) Install the smaller end of the barbed fitting into the silicone coupler

3. Installing the Power Series Intake System

- 3a) Install intake assembly onto throttle-body & tighten clamp
- 3b) Install the larger factory breather hose into the barbed fitting
- 3c) Insert the air temp sensor into the rear most silicone nipple
- 3d) Plug in the MAF sensor
- 3e) Insert one of the 10in long silicone hoses onto the smaller factory breather hose
-  Ensure that the MAF wires have some slack in them
(You may remove some electrical tape from the wire loom if needed)
- 3f) Insert the other end of the 10in long silicone hose that you connected in the last step to the temp sensor
- 3g) Insert the other 10in long hose into the other air temp sensor connection. The other end of that hose will connect to the other side of the throttle body
- 3h) Reconnect the negative lead of the battery terminal and start the car.




Installation Instructions: CorkSport Power Series Intake 2011+ Mazda 2

1: Remove Factory Intake Components.

A) Disconnect negative battery terminal.

Tip: write down stereo presets (this will make reprogramming them much easier).

 **WARNING:** Disconnect the negative terminal of the battery prior to starting installation. This promotes a fresh learning cycle by the engine management system, which will provide the best results for your car.

B) Remove the intake pipe by using a flathead screwdriver to remove the 4 clips (one clip on the top and bottom of each side of the pipe as shown in **Figure 1** on right).

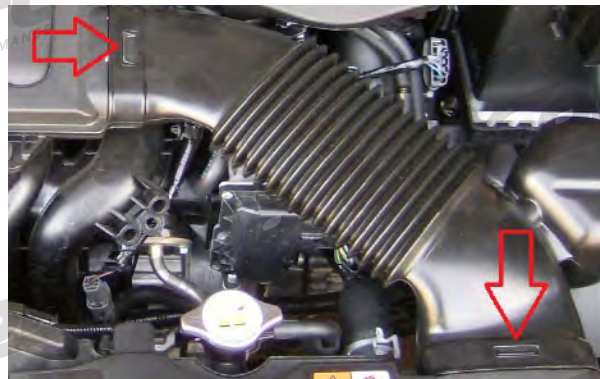


Figure 1

C) Remove the ECU wiring cover (as shown by the **Red Arrows** in **Figure 2A** & **2B** below) by unscrewing the two clips using a Phillips head screwdriver.

D) Disconnect the MAF housing harness plug (**Green Arrows** from **Figure 2A** & **2B**) from the Mass Airflow Sensor by pushing the thumb latch and pulling the plug out of the sensor.

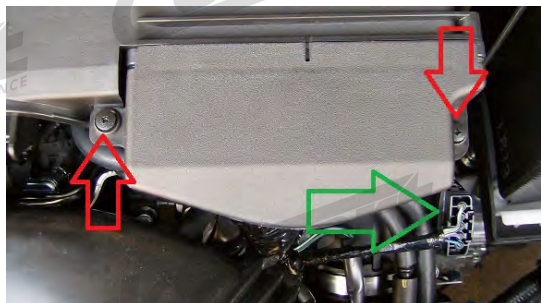


Figure 2A

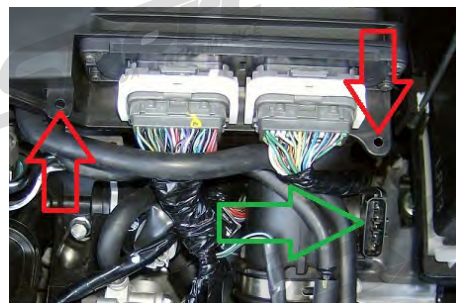


Figure 2B

 **WARNING:** Handle MAF sensor with care.

E) Using the small Phillips Screwdriver, remove the two screws (**Red Arrows** in **Figure 3**) that connect the MAF Sensor to the airbox, and remove the sensor from the airbox using a twisting/pulling motion. Turning while pulling will ensure that the O-Ring does not get damaged.

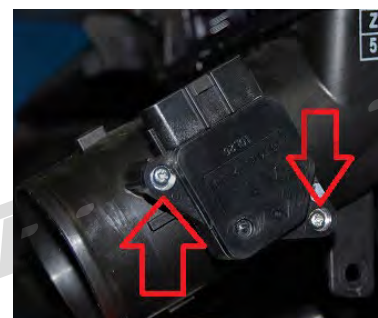


Figure 3

F) Locate the air temperature sensor and remove the three (3) sensor hoses (**red arrows** in **Figure 4A**).

G) Remove the air temperature sensor by pulling up and out using a twisting motion (**Figure 4B**).

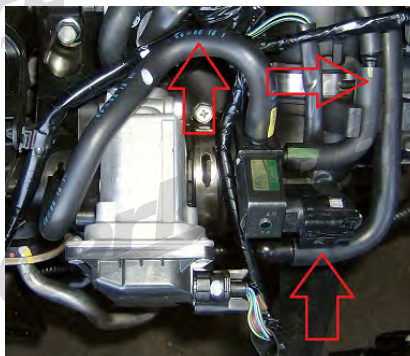


Figure 4A



Figure 4B

Installation Instructions:

CorkSport Power Series Intake

2011+ Mazda 2

1: Continued - Remove Factory Intake Components.

H) Loosen the two (2) worm screw clamps holding on the rubber elbow (red arrows in Figure 5A) and remove the elbow (your intake will now look like Figure 5B).

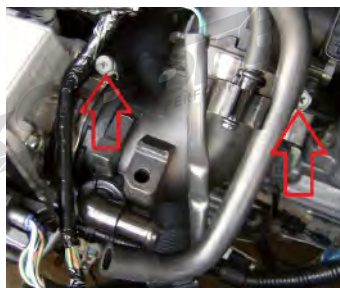


Figure 5A



Figure 5B

2: Assembling the Power Series Intake System

A) Place MAF Sensor into CorkSport MAF, using the same turning motion while pressing the sensor back in place (See Figure 7 on right). Ensure that the O-ring is entirely seated in the housing and fasten the two socket head cap screws into the stainless threaded bosses on the MAF Housing. Do NOT pinch the o-ring. If necessary a little dab of grease goes a long way. Double check the alignment of the sensor and tighten the socket head cap screws down with a 3mm Allen Wrench.



Figure 7

B) Install the silicone coupler to the MAF Housing as shown above, with both of the T-Bolt Band Clamps loosely fit over the ends of the coupler. One of the 3 inch clamps goes over the MAF Housing side of the coupler, and the other 3 inch clamp goes over the other side of the coupler. The 2.75 inch clamp goes on the filter and MAF connection. Tighten the two band clamps over the MAF Housing until the silicone and filter are snug to the housing with the 3/8 drive ratchet and 10mm long socket. Note that the AIRFLOW designation on the MAF sensor points toward the silicone coupler and away from the Air Filter side of the MAF Housing.

C) Install the smaller end of the 3/8" to 1/2" barbed fitting into the silicone connection that is opposite the MAF sensor connection as shown by the green arrow in Figure 7 above.

3: Installing the Power Series Intake System

A) Install the silicone coupler and 2.75" T-Bolt Band Clamp over the throttle body and tighten the band clamp until snug (See Figure 8 on right). Test to ensure that all three band clamp connections are firmly connected and cannot be pulled apart by hand. If you can pull any of the connections apart, reseal them and tighten the band clamp nut down 1-2 more turns and test it again. The entire assembly should be tight and not come apart when pressure is applied.

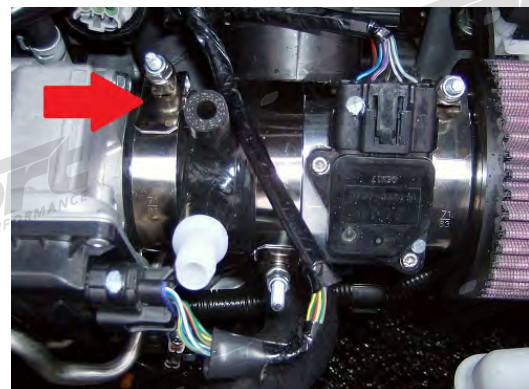


Figure 8

Installation Instructions:

CorkSport Power Series Intake

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3: Continued - Installing the Power Series Intake System

B) Install the larger factory breather hose into the barbed fitting as shown by the hollow red arrow in Figure 9.

C) Place the air temperature sensor into the rear most silicone nipple by pushing down and twisting at the same time (solid red arrow shown in Figure 9).

D) Plug in the MAF sensor (solid green arrow shown in Figure 9). Double check that the MAF sensor is fully seated into the MAF housing. Loosen it, reseal it and tighten the socket head cap screws if necessary.

E) Insert one of the 10in long 4mm silicone hoses onto the smaller factory breather hose (hollow green arrow shown in Figure 9).

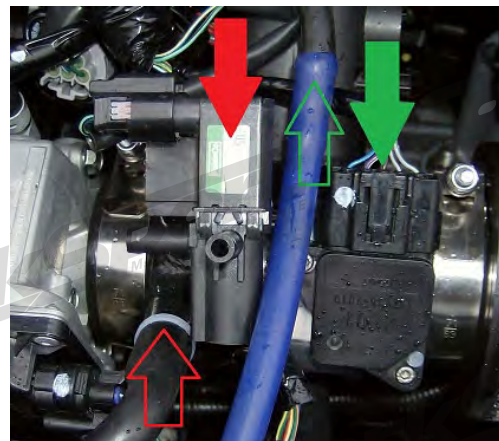



Figure 9

 Note: Be sure that the MAF wiring has enough slack so it is not tight, as the intake will rock with the engine movement. If it is too tight, remove some electrical tape from the wire loom until there is enough slack in the wiring.

F) Insert the other end of the 10in long 4mm silicone hose that you connected in the last step to the air temperature sensor (hollow red arrow shown in Figure 10).

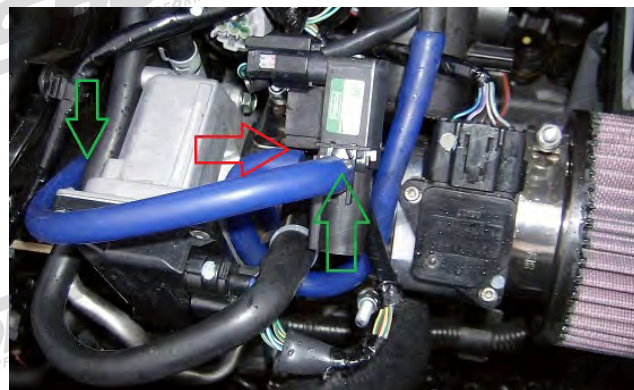


Figure 10

G) Insert the other 10in long 4mm silicone hose into the other connection on the air temperature sensor. The other end of that hose will connect to the other side of the throttle body (the two (2) hollow green arrows shown in Figure 10).

H) Reconnect the negative lead of the battery to the terminal and start the car. If you see a check engine light or experience a rough idle, it is probably due to a disconnected MAF sensor or a loose connection causing a vacuum leak that is disrupting airflow around the MAF sensor. Check that all connections are tight, that the valvecover breather hose is attached to the nipple on the silicone coupler and that the MAF sensor is fully plugged and latched into the factory wiring harness.