

# CorkSport

MAZDA PERFORMANCE



## CorkSport Power Series Short Ram Intake for the MazdaSpeed 6 Install Instructions

### Tools Required

- 10mm Deep Socket and Wrench
- 12mm Socket
- 14mm Socket
- Ratchet
- Philips Head Screw Driver
- Flat Head Screw Driver
- 3mm Allen Head Wrench
- Angled Needle Nose Pliers

### Contents

- CorkSport Turbo Inlet Pipe
- One 2 – 2 ¼” Silicone Coupler
- One 2 ¼” – 3” Angled Silicone Coupler
- Two 2 ¼” Band Style Hose Clamps
- Two 3” Band Style Hose Clamp
- One 2” Band Style Hose Clamp
- One CorkSport MAF Housing w/ Screws
- One Cone Style Filter w/ Hose Clamp
- 6” Length ~4mm Silicone Hose
- 12” Length ~14mm Silicone Hose
- 14 Page Install Instructions

These install instructions were written using a 2007 MazdaSpeed 6.

NOTE: The CorkSport short ram intake system will not work with the CorkSport Ram Air Front Mount Intercooler kit but can be used with the CorkSport Front Mount Intercooler kit for Short Ram Intake.. 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. Installation should take approximately 1 hour.

Thank you for your purchase. If you have any questions please call Cork Sport at 360 260 CORK

**WARNING:** Make sure vehicle is completely cooled down prior to starting installation.

Step 1: Park vehicle on smooth level surface, open hood and disconnect negative battery cable.



Step 2: Remove two (2) 10mm head bolts from intercooler cover and remove cover.



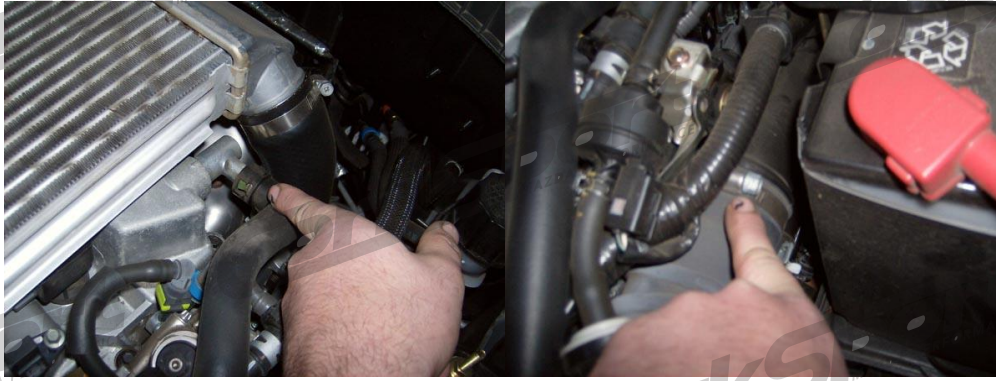
Step 3: Disconnect MAF sensor. Loosen hose clamp at air box with 10mm wrench or Phillips head screw driver. Unclip the air box cover and remove cover.

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Step 4: Disconnect crank case vent hose from valve cover. Loosen hose clamp on inlet hose to inlet pipe with a 10mm wrench or Phillips head screw driver. Remove hose.

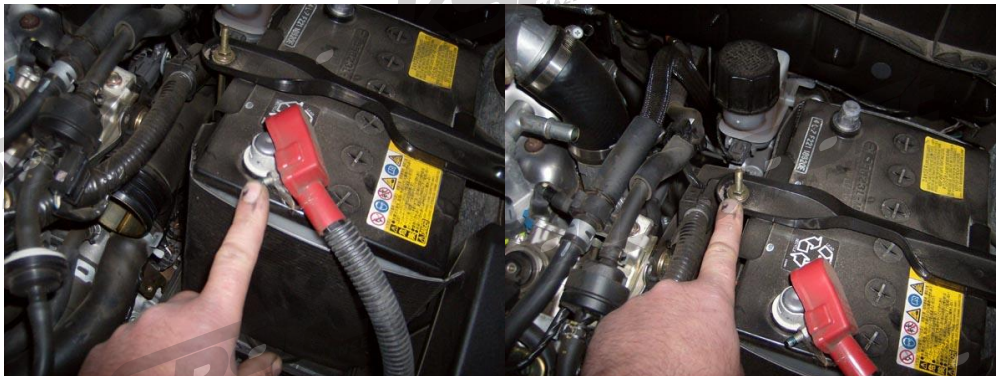
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Step 5: Lift up and pull out air box. Remove the two (2) 12mm head bolts in air box bracket and remove bracket.



Step 6: Disconnect positive battery terminal. Loosen 10mm head nut on battery hold down bracket, remove 10mm head bolt from battery hold down bracket and remove bracket and battery.



Pictures continued on next page.

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Step 7: Remove two (2) 10mm head bolts from battery tray, unclip wire harness and remove battery tray.



Step 8: Remove bypass hose from inlet pipe and bypass valve.



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Step 9: Remove wire harness clip from inlet pipe. Remove waste gate solenoid vent hose from inlet pipe and solenoid.

TIP: Use a twisting motion to release the vacuum line from their nipples.



Step 10: Remove 10mm head nut from inlet pipe bracket, loosen hose clamp at inlet pipe to turbo with a 10mm wrench or Phillips head screw driver and remove inlet pipe.



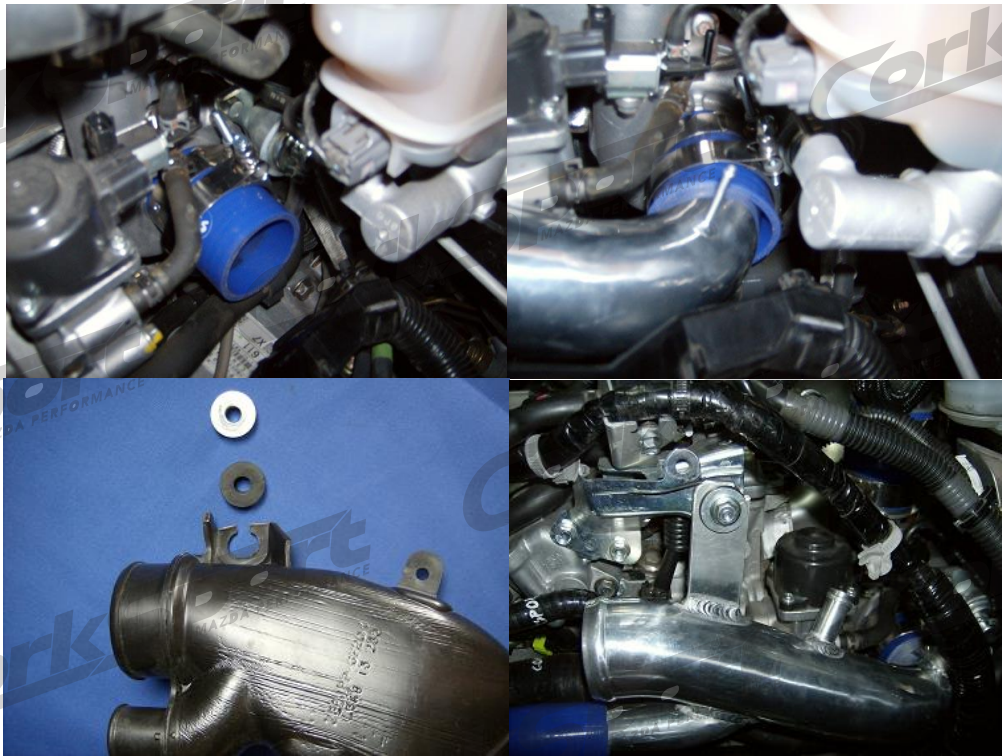
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Step 11: Install the 2 – 2 ¼” silicone coupler with a 2” hose clamp on turbo inlet with the 2 inch side on the turbo. Tighten clamp.



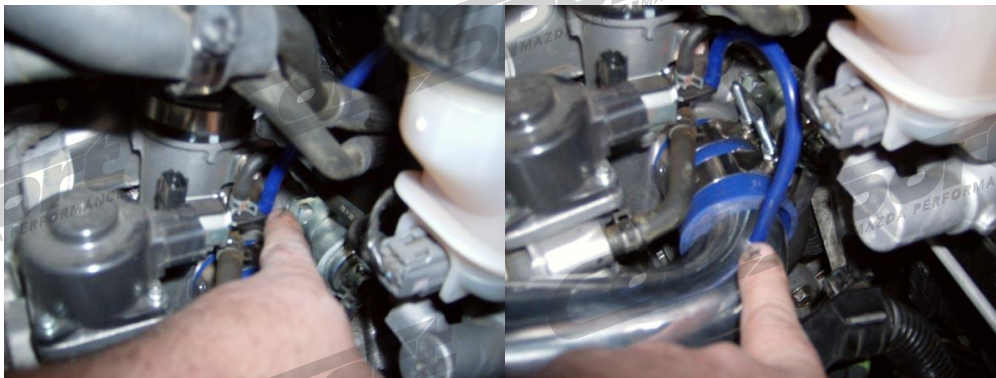
Step 12: Remove the rubber grommet and washer from the factory TIP and install on the CorkSport TIP as shown in the pictures below. Slide on 2.25” hose clamp onto previously installed silicone coupler, install turbo inlet pipe into silicone hose coupler as far as it will go and position bracket onto factory stud. Tighten hose clamp and install factory 10mm head nut onto stud and bracket and tighten nut.

NOTE: There will be a slight gap at the end of the coupler close to the bend of the inlet pipe, however, the T-bolt clamp will seal it securely.



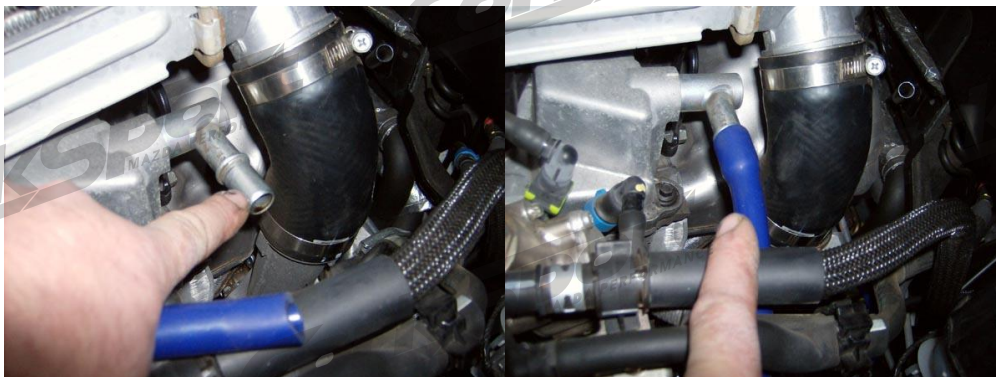
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Step 13: **\*Warning\*** The aluminum 4mm nipple can be damaged easily. Make sure to be gentle when installing the 4mm hose. Connect supplied 4mm silicone hose to small nipple on inlet pipe and onto waste gate control solenoid.



Step 14: Connect supplied 14mm silicone hose onto 14mm nipple on inlet pipe and onto crank case vent tube on valve cover. Depending on Routing you may want to trim some of the silicone.

NOTE: The silicone hose is a tight fit on the valve cover but will go on.



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Step 15: Remove hose clamp from end of bypass valve hose shown and install supplied worm screw style clamp. Install bypass hose onto inlet pipe and onto bypass valve.



Step 16: Reinstall battery tray with original two (2) 10mm head bolts and reconnect wire harness clip to tray.



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Step 17: Reinstall battery and battery hold down bracket with original hardware.



Step 18: Install a 2 1/4" T-bolt clamp onto end of angled silicone coupler and install coupler onto inlet pipe. Do not tighten clamp at this time.



NOTE: If the CorkSport air box was purchased with your intake, please refer to the instructions provided with the air box before proceeding to step 22.

Step 19: Install 3" T-bolt clamp onto silicone coupler and install MAF housing into coupler.

NOTE: Make sure arrow on MAF housing is pointing towards inlet pipe.



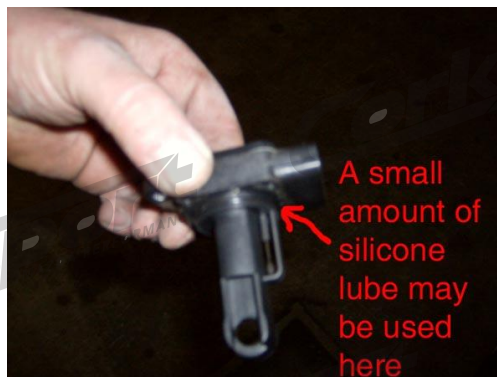
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Step 20: Install supplied air filter onto end of MAF housing and tighten its clamp.  
Position Silicone coupler as shown and tighten remaining T-bolt clamps.



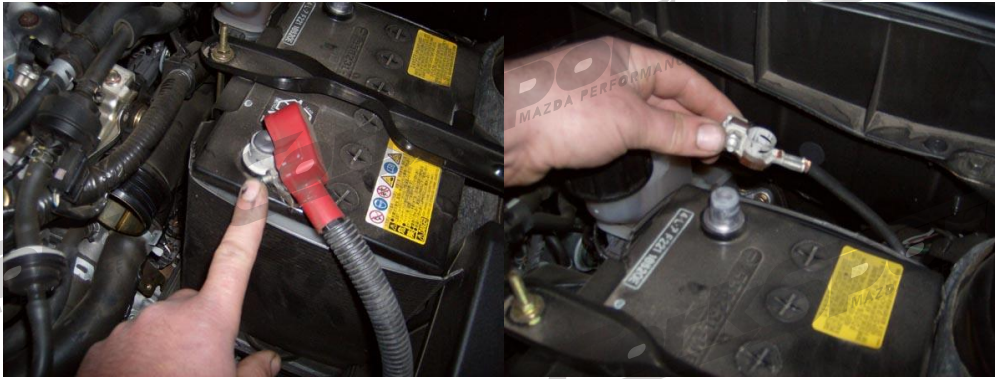
Step 21: Remove two (2) Phillips head screws from MAF sensor on stock air box cover and remove sensor. Install MAF sensor into MAF housing, making sure that the sensor is fully seated prior to installing and tightening the two (2) 3mm Allen head bolts. Reconnect MAF sensor plug.

NOTE: A small amount of silicone spray may be used on the O-ring of the MAF sensor for ease of installation.



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Step 22: Reconnect battery cables, positive first.



Step 23: Reinstall intercooler cover with original two (2) 10mm head bolts.



Step 24: Jack up left side front of vehicle and place securely on a jack stand.

**WARNING:** Follow instructions supplied with your jack and stands or serious injury or death can occur.

Step 25: Remove left side front wheel and tire.



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Step 26: Remove two (2) plastic Phillips head clips and four (4) Phillips/8mm head bolts from inner fender liner. Pull fender liner back towards hub assembly.



Step 27: Remove three (3) 14mm head nuts from air inlet resonator box and remove box.



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Step 28: Reinstall inner fender liner with original screws and clips.



Step 29: Reinstall wheel and tire. Remove vehicle from jack stand.

Start up vehicle. If vehicle has any idling issues, recheck all hose clamps for tightness and double check MAF sensor that it is fully seated in the housing. Test drive. After test drive, recheck all hose clamps again for tightness.

Follow the instructions that came with the air filter for maintenance of the air filter.

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