

INSTALLATION INSTRUCTIONS



CORKSPORT MZR DISI Single Runner Intake Manifold Gasket

*2007-2013 Mazdaspeed 3, 2006-2007 Mazdaspeed 6,
2007-2012 Mazda CX-7 Turbo*

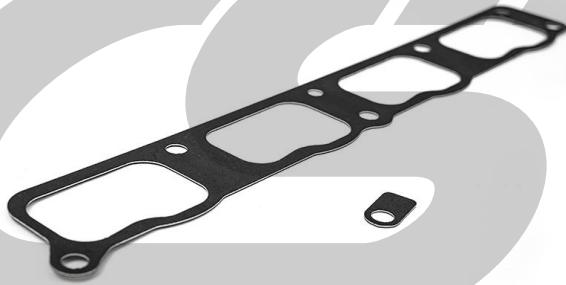
PART #: GEN-6-506-10

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CORKSPORT MZR DISI Single Runner Intake Manifold Gasket

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PRODUCT DESCRIPTION:

We are proud to introduce the CorkSport Single Runner Intake Manifold Gasket for the MZR DISI! We worked with Cometic to develop a gasket that is perfect for upgraded intake manifolds. Using Cometic's Aluminum Foamette Material (AFM) in 0.060" thickness, we were able to create a gasket that seals more reliably, eliminates potential flow restriction, and can be reused. If your thinking about upgrading your intake manifold or have been using an OEM gasket on your upgraded IM, you have found the perfect gasket for your build!

Please let us know your feedback of the by submitting a review at: <https://corksport.com/mazdaspeed-intake-manifold-gasket.html>

MATERIALS & TIME:

GENERAL INFO:



Time Est:
2hrs



Difficulty:
2/5



CEL:
No



Warranty:
6 month


PARTS LIST:

- One (1) CorkSport MZR DISI Single Runner IM Gasket
- One (1) CorkSport Lower IM Mount Spacer


TOOLING LIST:


- 8mm Wrench
- 10mm Wrench
- 12mm Wrench
- 22mm Wrench
- 8mm socket
- 10mm Socket
- 12mm Socket
- 1/4" or 3/8" drive Ratchet
- 4" Extension
- Needle Nose Pliers
- Vise-Grips


PRE-INSTALLATION NOTES:

 Make sure your vehicle is completely cooled down prior to starting installation. If you are going to work on your car within an hour or two of having driven it, use a fan to cool off the car.

 These instructions were written for reference only and the use of a factory service manual is recommended.

 How our instructions work: To best cover all of our customers experience levels, we have included a table of contents/order of operations along with step-by-step instructions.

 These instructions were written using a 2007 Mazdaspeed 6 with a CorkSport intake manifold. Other models and intake manifolds will be similar.

 If planning on completely removing your intake manifold for gasket installation, please see our injector seal instructions at: <https://corksport.com/support/instructions/GEN-6-991-WEB.pdf>

ORDER OF OPERATIONS & TABLE OF CONTENTS:

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DETAILED INSTRUCTIONS:

1. Removing the TMIC



The vehicle shown had a CorkSport upgraded TMIC and later is shown with a FMIC. Disassembly/installation of the CS IM Gasket is identical unless shown. If you have a FMIC, you can skip to Section 2.

- a) Remove the two 10mm bolts holding the OEM TMIC shroud. Shown circled in red in Figure 1a. Then remove the TMIC shroud.
- b) Loosen the clamps at the inlet and outlet of the intercooler using a 10mm deep socket and ratchet. Clamps shown with red arrows in Figure 1b.
- c) Remove the three 12mm nuts that bolt the TMIC to the engine. Shown with blue in Figure 1b.
- d) Remove the BPV hose from your BPV. Shown with blue hose and green arrow in Figure 1b.
- e) Remove the OEM TMIC from the vehicle.

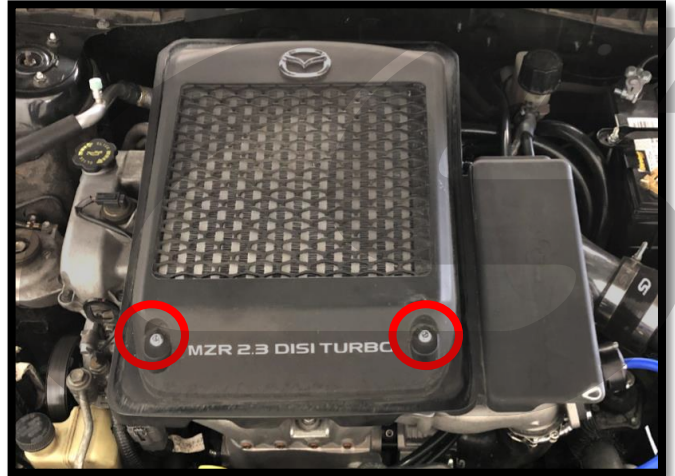


Figure 1a



Figure 1b is used as a location reference for Section 2.

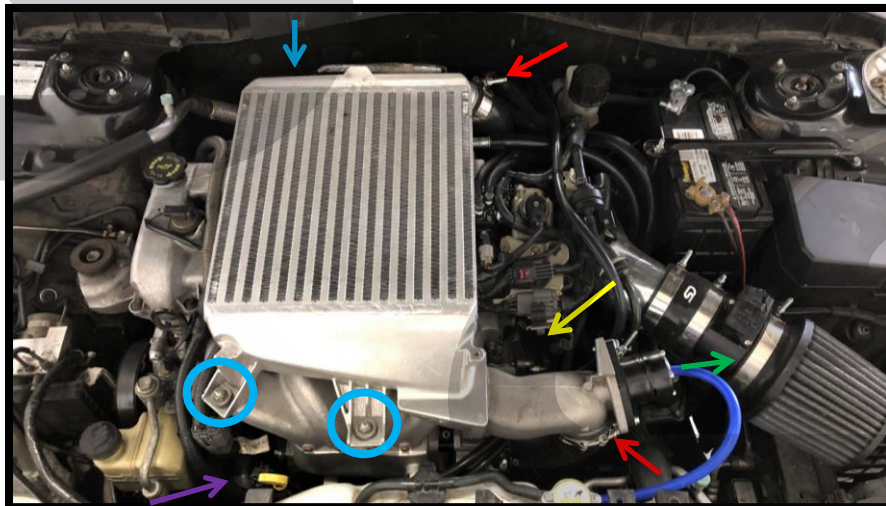


Figure 1b

DETAILED INSTRUCTIONS:

2. Intake Manifold Accessory Removal



Skip to Step 2c if you have an aftermarket intake manifold and/or have the VCTS deleted from your vehicle.

- a) Disconnect the swirl vane wires (red arrow in Figure 2a). Then, using needle nose pliers, remove the connector from the bracket. This connector is located on the driver's side of the intake manifold (yellow arrow in Figure 1b).



Figure 2a

- b) Remove the swirl vane controller box (red circles in Figure 2b) with an 8mm socket, then disconnect the electrical circuit (green arrow) and remove the controller box.

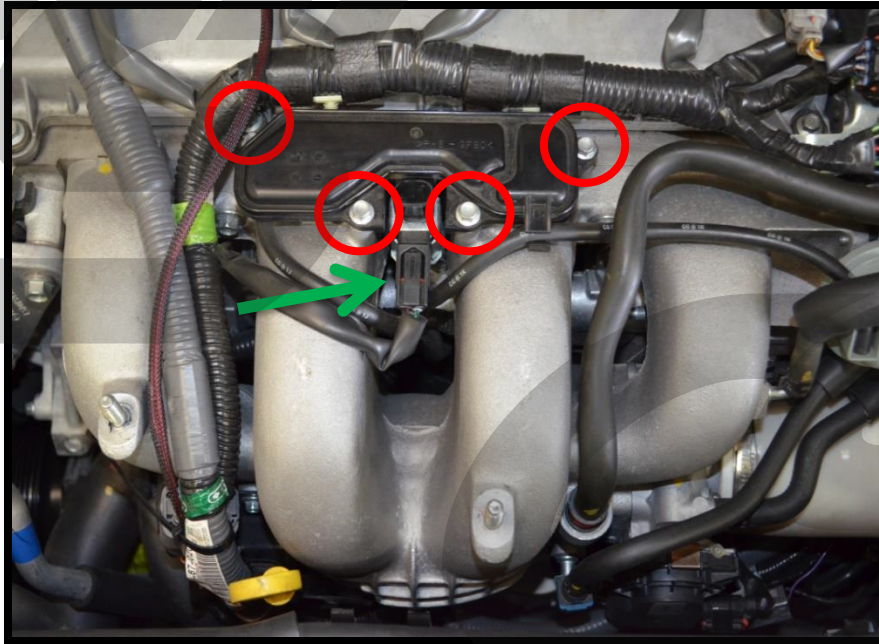


Figure 2b

DETAILED INSTRUCTIONS:**2. Intake Manifold Accessory Removal (cont.)**

- c) **Locate the connector that runs to the coil packs.** This is located at the front passenger side of the intake manifold. Move the gray wrapped wires out of the way. Location shown with **purple arrow** in **Figure 1b**.

- d) **Disconnect the connector that runs to the coil packs.** Shown with **green arrow** in **Figure 2c**. Then move this wiring out of the way for easier access to the intake manifold bolts.

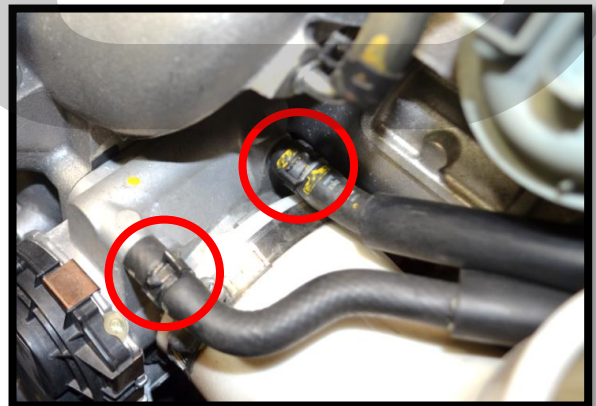
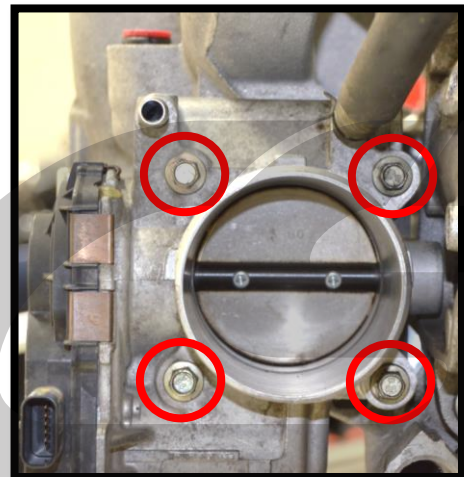
NOTE The following steps are not required if you have an EGR delete with no tube going to your intake manifold. Skip to Step 2k if you have an EGR delete on your car.

- e) **Unclamp the throttle body coolant lines and slide the clamps back.** Use needle nose pliers to loosen the clamps. Shown with **red circles** in **Figure 2d**.

- f) **Clamp the coolant hoses with vise-grips or c-clamps to stop the coolant flow.** Excess clamping force is not required. Then remove the coolant hoses from the throttle body.

- g) **Remove the throttle body inlet coupler.** Depending on your intercooler setup, this step will vary.

- h) **Remove the throttle body using an 8mm socket and extension.** There are four bolts that need to be removed, they are **circled in red** in **Figure 2e**.

**Figure 2c****Figure 2d****Figure 2e**

DETAILED INSTRUCTIONS:

2. Intake Manifold Accessory Removal (cont.)

- i) Disconnect the EGR tube at the intake manifold using a 22mm wrench. Nut shown **circled in red** in **Figure 2f**.



Figure 2f

- j) Disconnect the EGR tube at the engine using an 8mm socket and ratchet. Remove the two bolts **circled in red** in **Figure 2g** and remove the EGR tube from your car. Depending on your intake setup, you may need to remove your intake and/or turbo inlet pipe to access these EGR bolts.

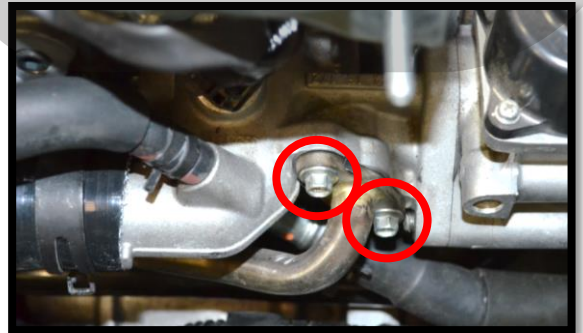


Figure 2g



If you do not have a fuel rail shield you can skip to Section 3.

- k) Remove the fuel rail shield by removing the four 10mm bolts using a socket and ratchet. Shown **circled in red** in **Figure 2h**.

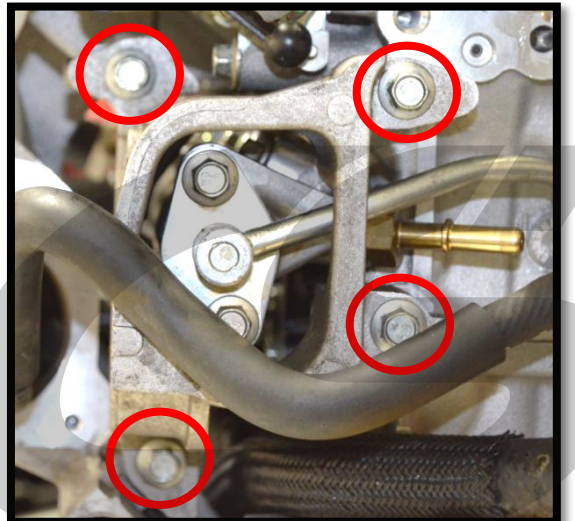


Figure 2h

DETAILED INSTRUCTIONS:

3. OEM Intake Manifold Gasket Removal



If you have a 2010-2013 Mazdaspeed 3, you can skip to step 3c as you have electric power steering.

- a) **Partially remove the power steering pump.** Remove the two upper bolts **circled in red** in **Figure 3a** using a 12mm wrench. Then loosen the lower bolt with a 12mm socket and ratchet **but do not remove it.** Lower bolt shown **circled in blue** in **Figure 3a**.

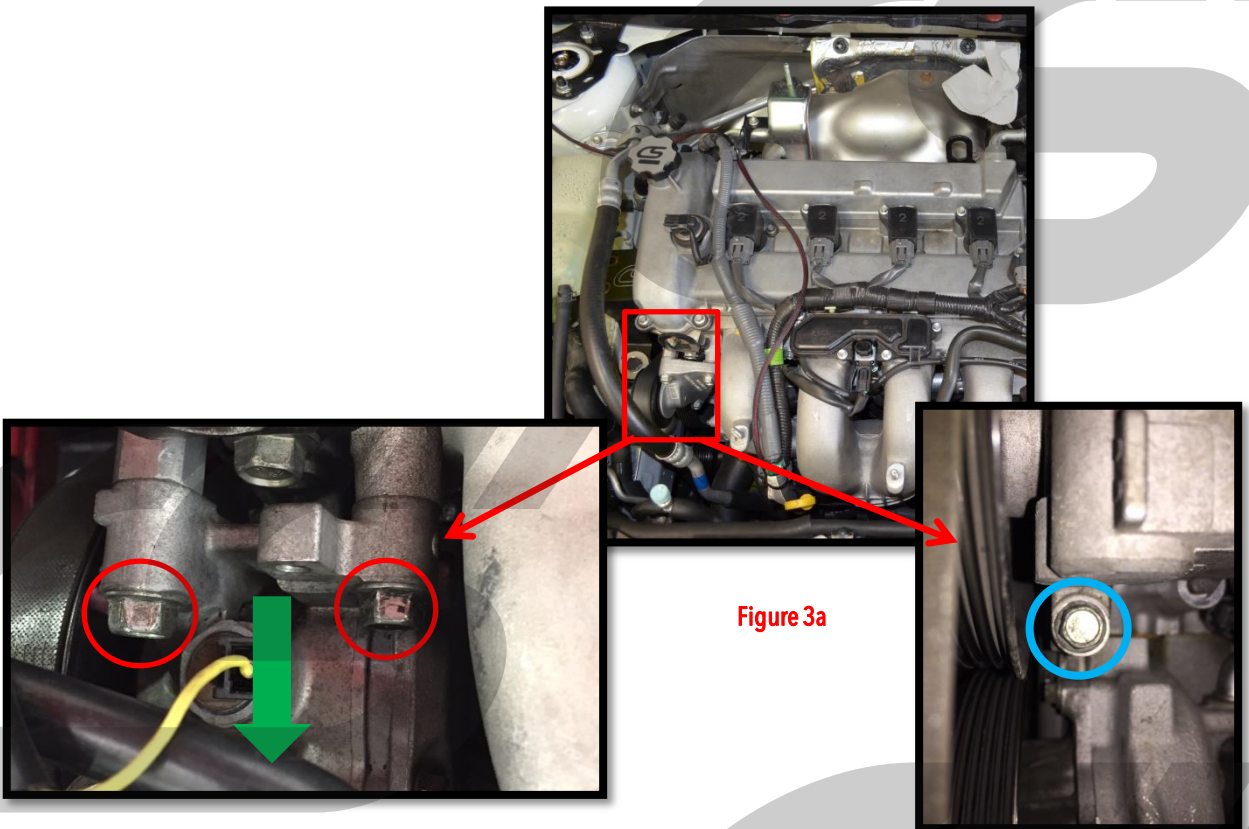


Figure 3a

- b) **Pull the power steering pump in the direction of the green arrow in Figure 3a.** It will rotate away from the intake manifold giving you access to the leftmost intake manifold bolt.

DETAILED INSTRUCTIONS:

3. OEM Intake Manifold Gasket Removal (cont.)

- c) Remove all bolts that hold the intake manifold to the head of the vehicle. Use a 10mm socket and 4" extension on a ratchet to reach the six bolts **circled in red** in **Figure 3b**.

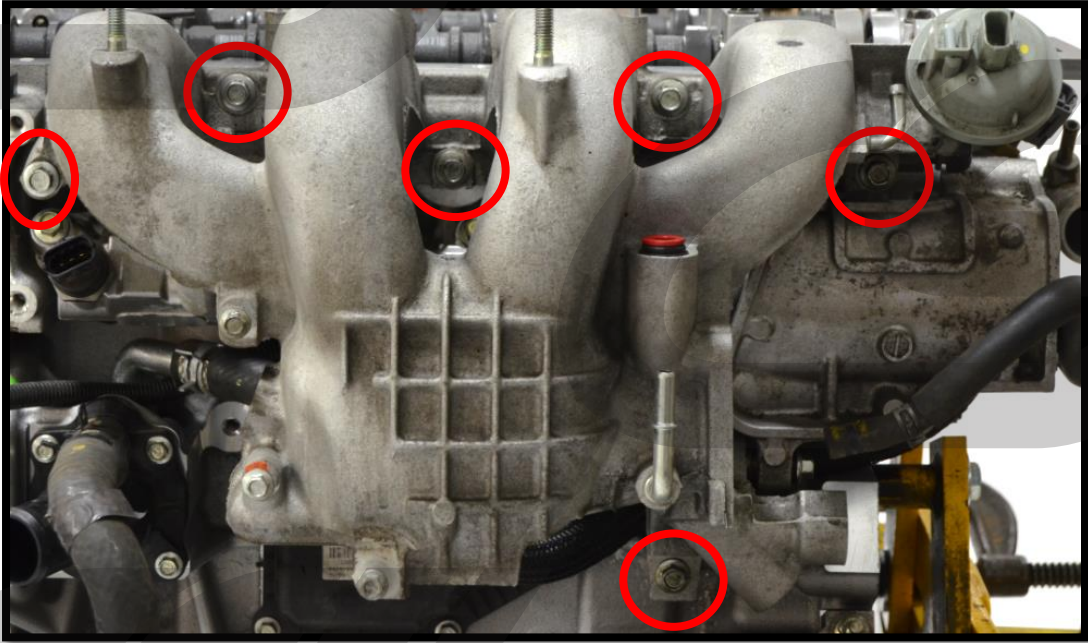


Figure 3b

- d) Pull the intake manifold free from the engine enough so that the OEM gasket can be removed. Remove the OEM gasket. Shown in **Figure 3c**.

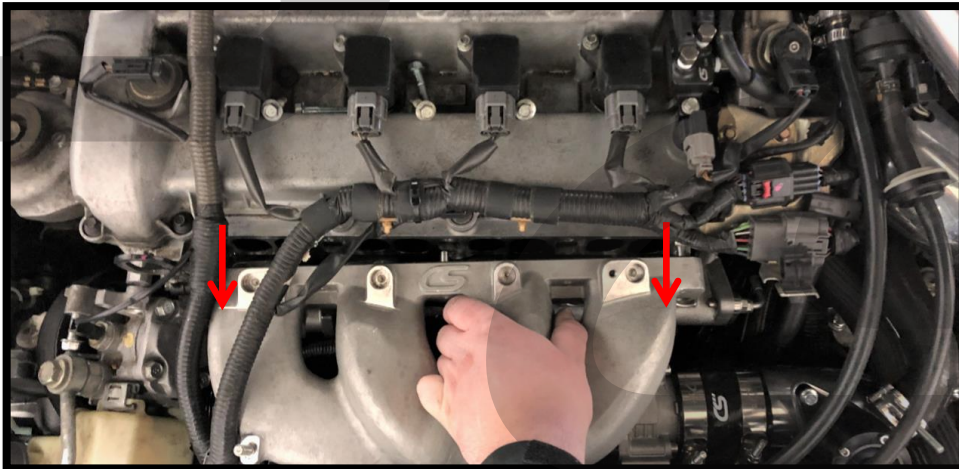
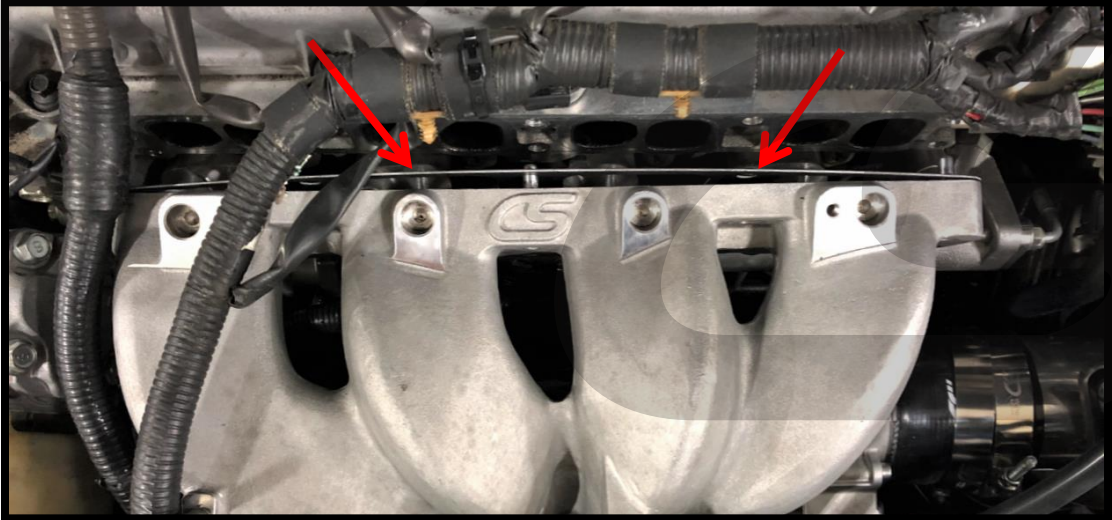


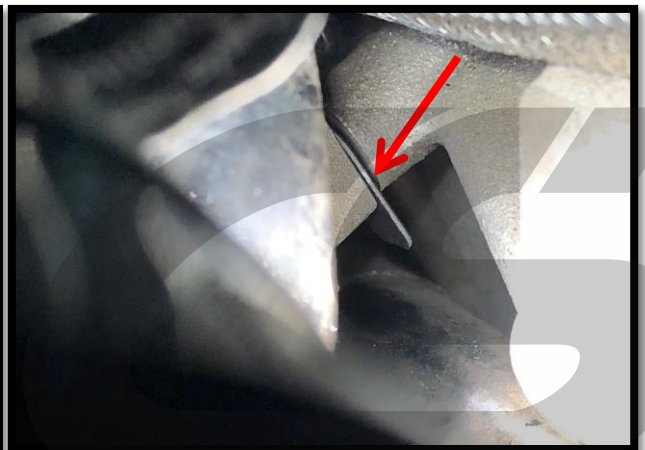
Figure 3c

DETAILED INSTRUCTIONS:**4. CorkSport Intake Manifold Gasket Installation**

- a) Install the CS Intake Manifold Gasket onto the alignment pins of the intake manifold. Shown in **Figure 4a**. If you do not have the alignment pegs, you can use two of the manifold mounting bolts threaded into the head a turn to hold the gasket in position.

**Figure 4a**

- b) Install the lower mounting spacer between lower support of your intake manifold and the engine block. Using long pliers to place the spacer in position while threading in the lower bolt can help with install. Double check the spacer is installed after threading the lower bolt in a few turns. Spacer shown in **Figure 4b** and shown installed in **Figure 4c**.

**Figure 4b****Figure 4c**

DETAILED INSTRUCTIONS:

4. CorkSport Intake Manifold Gasket Installation (cont.)

- c) Reposition your intake manifold onto the head of the engine.
- d) Tighten the six intake manifold bolts to 13-16ft-lbs.

5. Vehicle Reassembly

- a) Follow Sections 1-3 in reverse order to reinstall any components removed during intake manifold gasket install.
- b) Reinstall any additional components removed.
- c) Torque specifications can be seen below:
 - 8mm bolts: 6-8ft-lbs
 - 10mm bolts: 13-16ft-lbs
 - 12mm bolts: 21-25ft-lbs
- d) Start the vehicle. Upon first startup, listen for any noises or rough idle that may indicate that the gasket was installed wrong. If you have an AccessPort, check for abnormal fuel trims.



**This completes the installation of your CorkSport Intake Manifold Gasket!
Enjoy the improved sealing performance and better flow!**

WHAT'S NEXT?

CorkSport CST4 Turbocharger

Give Experience a boost in performance with our drop-in Mazdaspeed turbocharger. It easily bolts in and replaces your undersized OEM turbo with NO mechanical modifications. The CorkSport turbo supports a range of 250-450* horsepower in your Mazdaspeed. If your Mazdaspeed 3 or Mazdaspeed 6 turbo is worn out or is smoking, you need our turbo. Add the power without the hassle today!

FREE MAP SENSOR



CorkSport 72mm Throttle Body

Introducing the first and only performance throttle body for the MZR DISI that offers no sacrifices. By taking a ground-up approach we were able to succeed in making a throttle body that performs better than OE while retaining OE fitment and daily drivability. With easy installation and drop in fitment, you are sure to enjoy the gains from the CorkSport Throttle Body.



CorkSport Camshafts

The CorkSport Mazdaspeed Performance Camshafts are developed with the latest design, manufacturing, and casting technologies and ground to CNC precision for the best performance for your Mazdaspeed. Near factory idling cams for the daily driver and even the aggressive track driver bringing improvement in throttle response and torque to your Mazdaspeed.

