

CorkSport
MAZDA PERFORMANCE

INSTALLATION INSTRUCTIONS



CORKSPORT 13" BIG BRAKE KIT

2014-2018 Mazda 3
2014+ Mazda 6
2013+ CX-5

PART #: AXM-3-413-1X

Need Help With Your Installation? Call (360)260-CORK



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deliver - every time.*

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CORKSPORT 13" BIG BRAKE KIT

2014-2018 Mazda 3
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PRODUCT DESCRIPTION:

The CorkSport 13" Big Brake Kit for 2014-2018 Mazda 3 provides a drastic improvement to braking by offering improvements to each component present in the stock system. Larger rotors, 4-piston calipers, stainless steel brake lines, upgraded pads, and everything you need to install it on your Mazda is included in this kit. If the factory brakes are not enough for you and your ride, look no further than the CorkSport 13" BBK.

Please let us know your feedback of the by submitting a review at: <https://corksport.com/13-inch-big-brake-kit-for-2014-2018-mazda-3-and-2013-2021-mazda-6.html>

PRE-INSTALLATION NOTES:



Verify that the car is on a level surface before proceeding. Use appropriate load rated jack stands to support the vehicle.



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 2018 Mazda 3. Earlier Mazda 3, 6, and CX-5 will be similar.



There will be slightly increased noise while braking due to the upgraded pads and rotors.



Wheel spacers are required for OE wheels and some aftermarket wheels.

MATERIALS & TIME:

GENERAL INFO:



Time Est:
3hr



Difficulty:
3/5



CEL:
No



Warranty:
2-Year

TOOLING LIST:

- 3/8" Drive Ratchet
- 1/2" Drive Breaker Bar
- 1/2" Drive Torque Wrench
- 17mm Socket
- 21mm Socket
- 10mm Allen Socket
- 12mm Allen Socket
- 10mm Line Wrench
- 17mm Wrench
- 19mm Wrench
- Hydraulic Jack
- Jack Stands
- Pliers
- Flathead Screwdriver
- Drip Pan
- Dead blow hammer
- 5/32" hose
- Brake Fluid
- Plastic Bottle

PARTS LIST:

- One (1) CorkSport Left Side 330mm Brake Rotor
- One (1) CorkSport Right Side 330mm Brake Rotor
- One (1) CorkSport Left Side Brake Caliper
- One (1) CorkSport Right Side Brake Caliper
- Two (2) Caliper Mounting Brackets
- Two (2) Stainless Steel Brake Lines
- Two (2) M10 Banjo Bolts
- Four (4) Crush Washers
- Four (4) M12x35mm Socket Head Cap Screws
- Four (4) M12x60mm Socket Head Cap Screws
- Four (4) Large Washers
- Four (4) Small Washers
- One (1) Bottle of Touch-Up Paint
- One (1) Bottle of thread locker

ORDER OF OPERATIONS & TABLE OF CONTENTS:

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ROTOR ROTATION IDENTIFICATION:

DRIVER SIDE ROTOR



PASSENGER SIDE ROTOR



DETAILED INSTRUCTIONS:

1. OEM Brake Removal



Verify that the car is on a level surface before proceeding. Use appropriate load rated hydraulic jack and jack stands to support the vehicle.

a) Engage the parking brake and raise the front of the vehicle with a hydraulic floor jack, then support with jack stands.



Please refer to the owners manual for proper jack stand location.

b) Remove the driver-side wheel with a 21mm socket and impact wrench/breaker bar. Other sockets may be needed depending on your lug nuts.

c) Free the brake line using pliers or a screw driver to remove the brake line clip that attaches it to the strut. Shown with red circle in Figure 1a.



When releasing brake fluid, catch it with a drip pan. Brake fluid can take off paint and coatings so be cautious if the fluid is spilled. Using a small vacuum cap will prevent any unnecessary fluid leakage.

d) Remove the 10mm brake line bolt using a 10mm line wrench. Brake line bolt shown with red arrow in Figure 1b.

e) Free the brake line using pliers or a screw driver to remove the brake line clip that attaches it to the chassis. Shown with blue arrow in Figure 1b.

Figure 1a

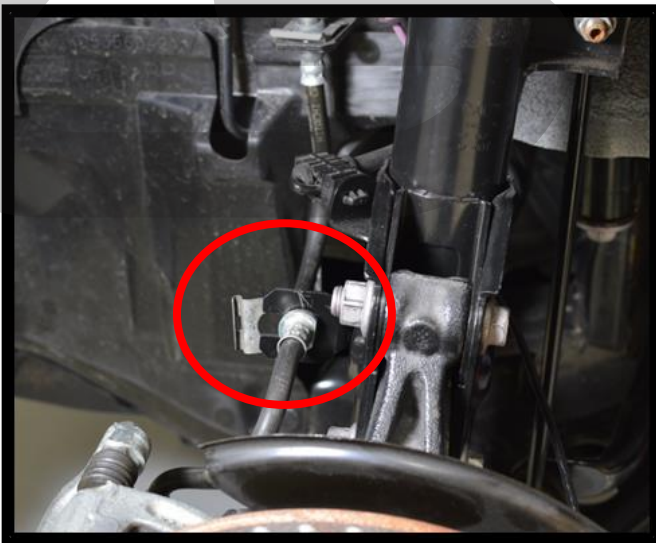
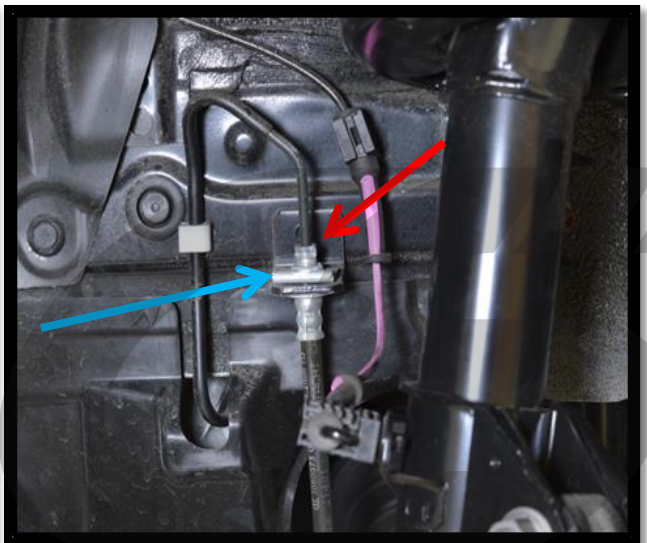


Figure 1b



DETAILED INSTRUCTIONS:

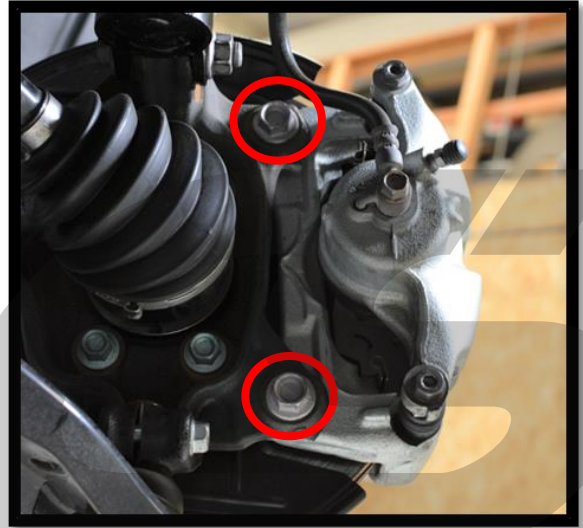
1. OEM Brake Removal (continued)

f) Remove the two 17mm bolts from the back of the caliper using a long 17mm wrench or breaker bar with 17mm socket. Bolts shown with **red circles** in **Figure 1c**.

g) Remove the OEM caliper from the vehicle. The OEM brake line will come with it.

h) Remove the OEM rotor from the vehicle by pulling straight out. You may need to hit the rotor with a dead blow hammer or rubber mallet to help dislodge it from the hub.

Figure 1c



2. CorkSport Rotor & Caliper Install

a) Apply supplied thread locker to 2 of the M14x35mm bolts.

b) Install a CorkSport caliper bracket using a 12mm Allen socket and the hardware from above. Make sure the bolts have the included washers on them. Ensure the flat portion of the bracket faces outward. **Figure 2a** shows the proper bracket orientation. **Torque the bolts to 64-71 ft-lbs.**

c) Install the CorkSport left side brake rotor. **Figure 2b** shows the left rotor installed on the correct (driver's) side of the vehicle. Use a lug nut to keep the rotor fully seated while installing caliper.

Figure 2a

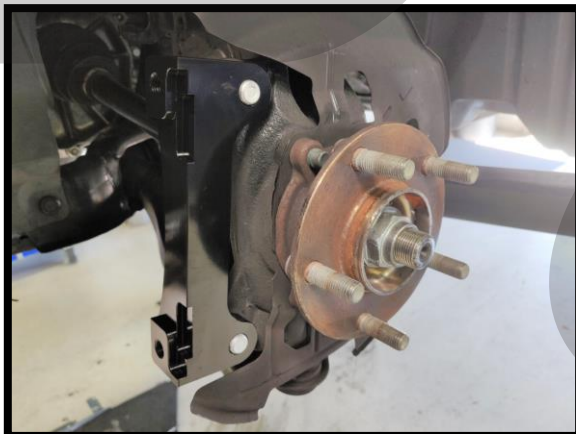
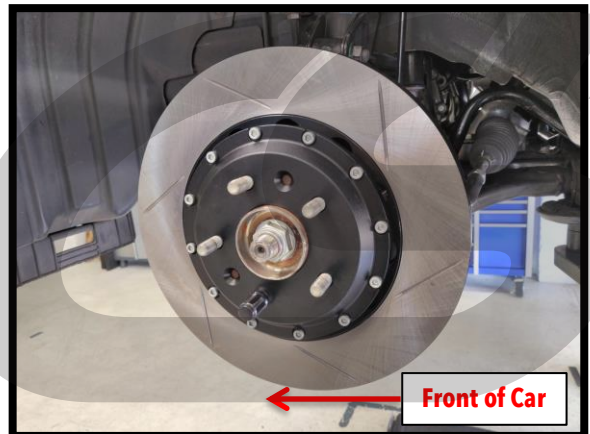


Figure 2b



DETAILED INSTRUCTIONS:

2. CorkSport Rotor & Caliper Install (continued)

d) Apply the supplied thread locker to 2 of the M12x60mm bolts.

e) Install the left side CorkSport brake caliper using a 10mm Allen socket and the hardware from above. Make sure the bolts have the included washers on them. Ensure the bleed screws face upwards and the sticker matches the direction of forward rotation. **Figure 2c** shows the bolt locations with **blue circles** and correct sticker orientation with a **green circle**. **Torque the bolts to 64-71 ft-lbs.**

Figure 2c

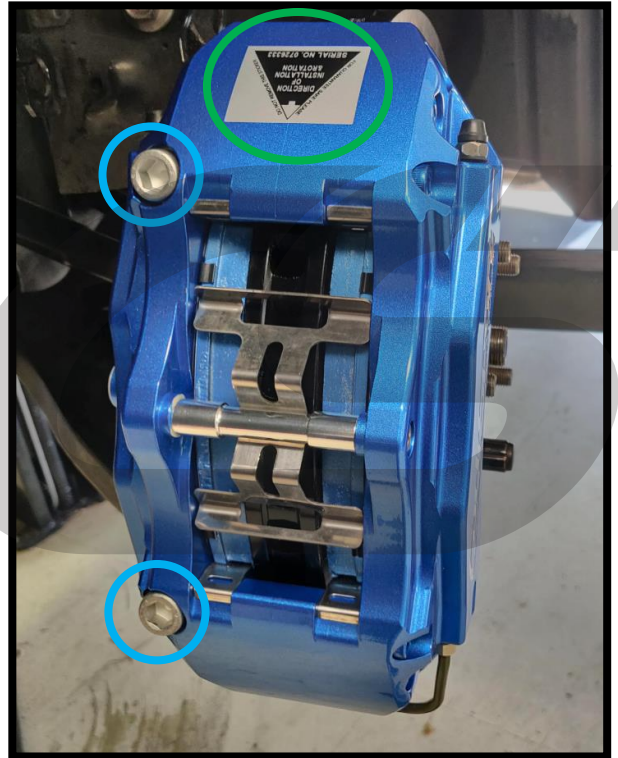
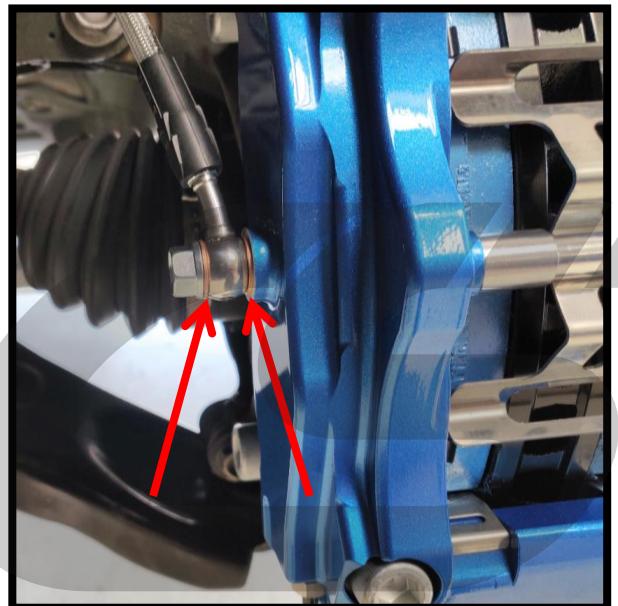


Figure 3a



3. CorkSport Brake Line Install

a) Attach one CorkSport brake line to the caliper using **one supplied banjo bolt and two crush washers**. Ensure the line faces upwards and angles away from the caliper. **Figure 3a** shows the proper line orientation. Ensure there is one crush washer on both sides of the brake line fitting. The **red arrows** in **Figure 3a** show correct crush washer locations.



Improper positioning or failure to use crush washers will cause your brakes to leak and potentially fail.

b) Tighten the banjo bolt to **15-19 ft-lbs** using a 14mm socket. **Do not over tighten.**

DETAILED INSTRUCTIONS:

3. CorkSport Brake Line Install (continued)

c) Remove the 19mm locknut present on the other end of the brake line.

d) Place the locknut over the OEM brake line fitting. **Figure 3b** shows the locknut in the correct location with a **red circle**.

e) Fit the CorkSport brake line through the OEM bracket and attach it to the OEM brake line fitting. Tighten together using a 10mm line wrench and a 17mm wrench to hold the brake line. **Figure 3b** shows what the line should look like after tightening.



Ensure the brake line does not get twisted while tightening.

f) Attach the locknut to the CorkSport brake line. Tighten with a 19mm wrench and a 17mm wrench to hold the brake line. This will lock the brake line to the bracket on the chassis. See **Figure 3c** shows the brake line fully installed.

g) Slide the rubber grommet onto the OEM brake line strut mount. The groove in the rubber will fit snugly within the OEM mount. The **red arrow** in **Figure 3d** shows where the isolator should attach.

h) Repeat sections 1-3 for the opposite side of the vehicle.

Figure 3b



Figure 3c

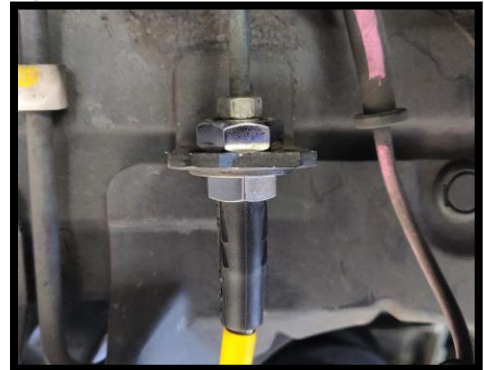
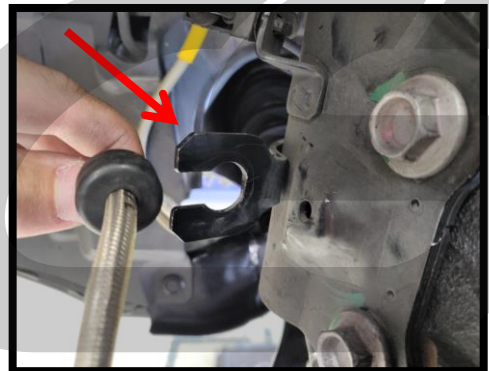


Figure 3d



DETAILED INSTRUCTIONS:

4. CorkSport Brake Bleed



For best results, always start with the bleed screw located the furthest away from the master cylinder and work your way closer. There are two bleed screws for each caliper. Start with the outer bleed screw on the passenger side, then passenger inner, driver outer, and finally driver inner.

Brake Bleeding: You will need a friend, a short section of 5/32" diameter hose, and a plastic bottle. Put one end of the hose on the bleed screw and the other in the bottle. Have your friend pump the brake pedal 3-5 times until there is sufficient pedal pressure. Then, have them hold the brake pedal firmly as you loosen the bleed screw. The pedal will go to the floor while fluid and air will enter the bottle. Make sure your friend holds the pedal down as you retighten the bleed screw. Repeat the procedure around 3 times per bleed screw, or until you are confident there is no air in the system. Check that your brake fluid level is at "full" after each bleed screw.

Once completed, ensure there are no fluid leaks before driving.



Carefully install the wheels onto the studs. Check the clearance between the brake caliper and the wheel spokes. You need a minimum of 2-3mm of clearance between the caliper wheel spoke when the wheel lug nuts are correctly torqued. Torque lug nuts to 66-86ft-lbs.

5. CorkSport Brake Pad Bedding



Follow the steps below to slowly heat and cool the brakes. Do not attempt to stomp on the brakes right after install.

- a) Find an open road and accelerate to about 30MPH.
- b) Brake evenly and smoothly until almost stopped, then accelerate to 30MPH again.
- c) Repeat steps 5a and 5b roughly 10 times.
- d) Repeat steps 5a and 5b but accelerate to 45MPH and stop much quicker.
- e) Repeat step 5d 2-3 times.
- f) Allow 15 minutes for the system to cool. You are now able to brake normally.



This completes the installation of your CorkSport Big Brake Kit.
Enjoy the upgraded braking performance and improved pedal feel!

WHAT'S NEXT?

CorkSport 2014-2018 Mazda 3 Cat-Back Exhaust

Wake up your 2014-2018 Mazda 3 with the CorkSport 80mm Cat Back Exhaust. The next step up in volume from the existing 60.5mm CorkSport exhaust; the 80mm variant offers a great sounding, loud exhaust that doesn't ruin the daily drivability of the MZ3.

More power, better looks, and a sound that changes a boring daily driver into a fun backroads car all come in an easy to install package. Plus, the large diameter piping future-proofs your ride for upcoming CorkSport parts.



CorkSport Steering Wheel

Take hold of your driving experience with the CorkSport Performance Steering Wheel.

Add style to your Mazda interior and control to your driving with the CorkSport performance leather steering wheel. Hand stitched and wrapped around a racing grip design, the perforated genuine leather is comfortable and plush for daily commuting and spirited track driving. Designed to be a direct replacement for the OEM steering wheel, the CorkSport Performance Steering wheel takes 90 minutes for installation.



CorkSport Carbon Fiber Engine Cover

Add a custom style to the engine bay of your Mazda with the CorkSport Carbon Fiber Engine Cover. We replicated the OEM cover's shape out of carbon to give a stylish look with easy fitment. It's available in both woven and forged carbon and with four different CS badge colors so you can really decide what looks best with your build. .

