

CorkSport Performance

GEN-3-412-pads-XXXX Brake Pad Replacement for Big Brake Caliper

Installation Instructions for the changing brake pads on the CorkSport Performance Big Brake Caliper

Written By: Quintin Gunn



INTRODUCTION

In this installation guide we have provided step by step instructions to remove the existing brake pads, and install new brake pads in the CS Big Brake Calipers.

Advisory:

- Working under the vehicle requires a safe and sturdy location for the vehicle to sit on jackstands.
- Pad bedding must be done properly to prevent braking issues. Follow the instructions carefully to prevent vehicle damage or personal injury.

All CorkSport big brake calipers that have the **-412** in the part number can use this guide for brake pad replacement.

The following brake pads series may operate with the CorkSport Big Brake Calipers. Other brake pad manufacturers may have pad designs for this configuration that is not listed here:

Hawk – HB110 (HB110F.654 HPS, HB110B.654 HPS 5.0, HB110N.654 HP+, HB110W.654 DTC-30, HB110U.654 DTC-70)

G-Loc – GPX6

Brembo – B52

AP Racing – AP5200 & CP3215

Carbotech – CTCP3215

TOOLS:

- [Hydraulic Jack](#) (1)
- [Jack Stand](#) (2)
- [3/8" Drive Ratchet](#) (1)
- [5mm Allen Key Socket](#) (1)
- [1/2" Drive Breaker Bar](#) (1)
- [Lug Nut Socket](#) (1)
- [Torque Wrench](#) (1)
- [Flathead Screwdriver](#) (1)

PARTS:

- [CorkSport Replacement Brake Pads](#) (1)

Step 1 — Getting Started



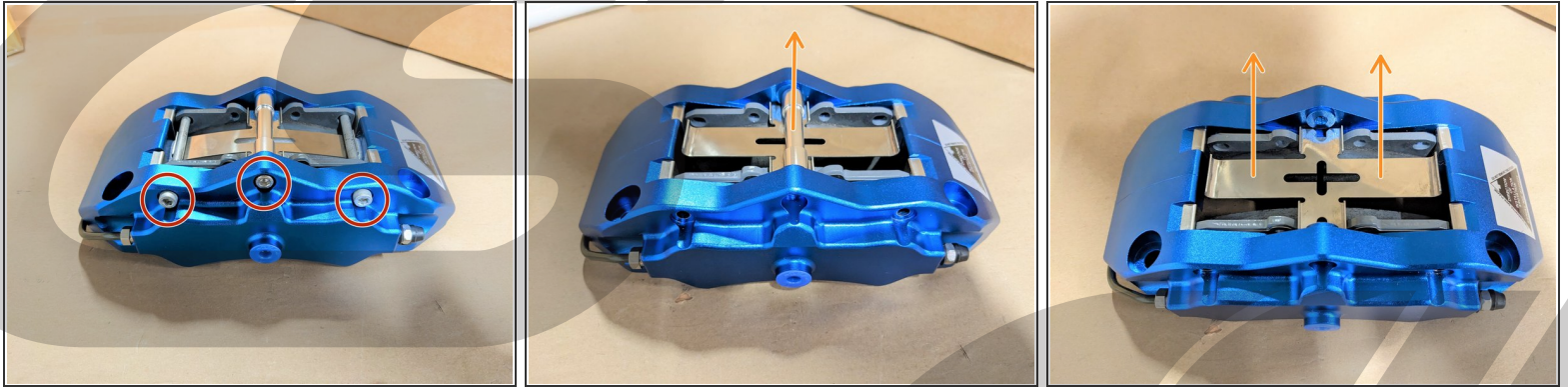
- First and foremost; **THANK YOU** for becoming a part of the CorkSport Family. We hope to bring you the highest level of Parts, Customer Service, & Support
- ⓘ How To Use These Instructions
 - The instruction format will relate colored marking in the image to the color dot in the text to the right of the image
- ⓘ Caliper shown removed and on a bench for clarity. Caliper can remain installed on the vehicle during brake pad swap.

Step 2 — Lifting the Car & Removing the Front Wheel



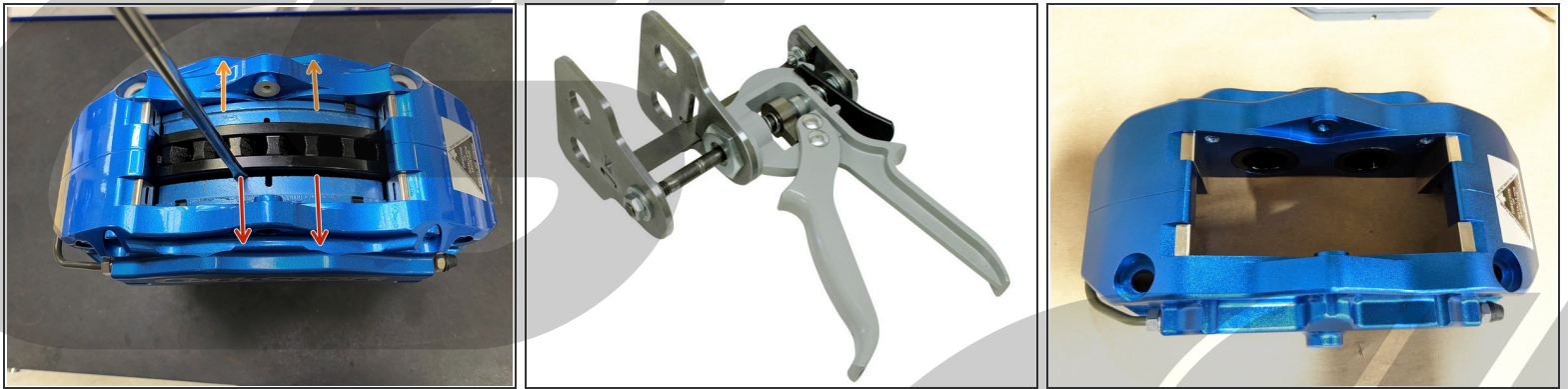
- ⚠** Ensure the vehicle is parked on a level surface before proceeding.
- Start by lifting up the front of the car using the hydraulic jack and jack stands.
- ⚠** Be sure to reference your owners manual for jack points and the jack manufacturer's instructions for proper practices.
- Remove the front wheel from the vehicle using the 1/2" drive breaker bar or impact gun and 17mm or 21mm socket.
- i** 17mm or 21mm lug nuts present depending on year and trim level of your vehicle.
- i** A different socket may be required if you have aftermarket or locking lug nuts.

Step 3 — Old Brake Pad Removal Part 1



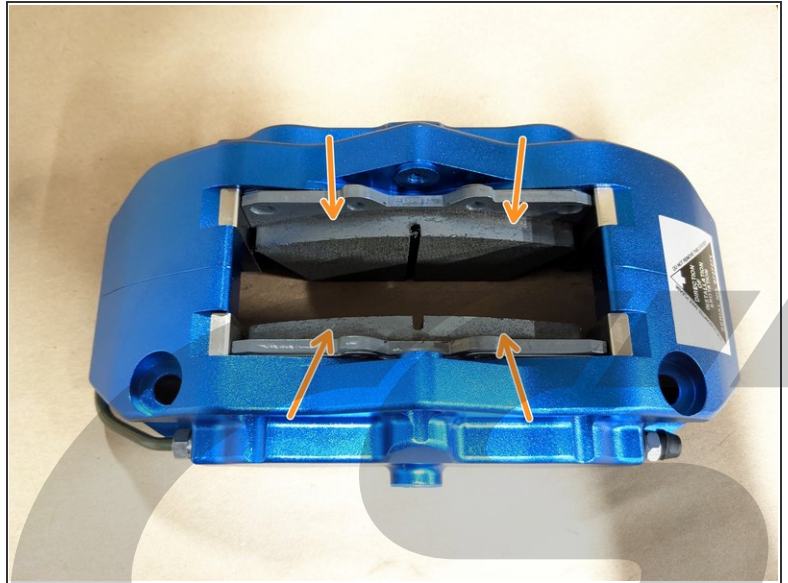
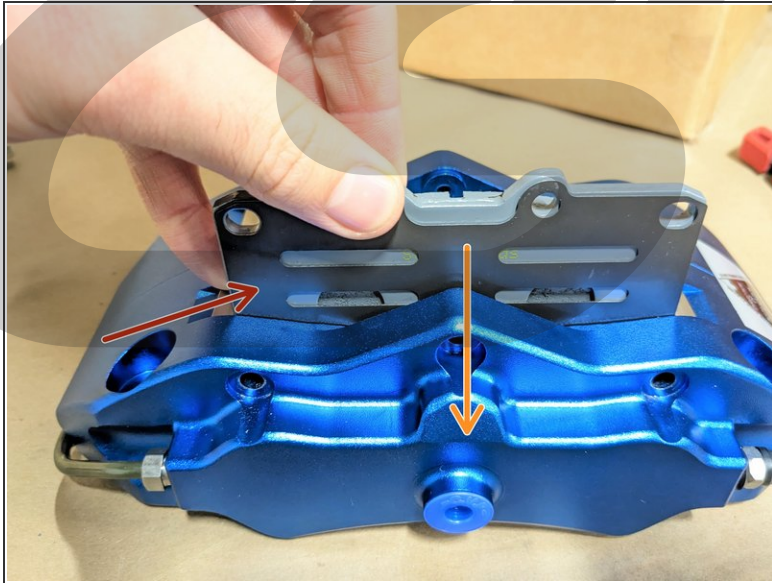
- Remove the **Three(3) pad retaining bolts** at the back side of the caliper using a **5mm Allen wrench/socket**
 - ⓘ Keep track of each bolt's original location as the side bolts are different from the center bolt
- Remove the Center Rod and Brake Pad Retaining Plate from the Caliper

Step 4 — Old Brake Pad Removal Part 2



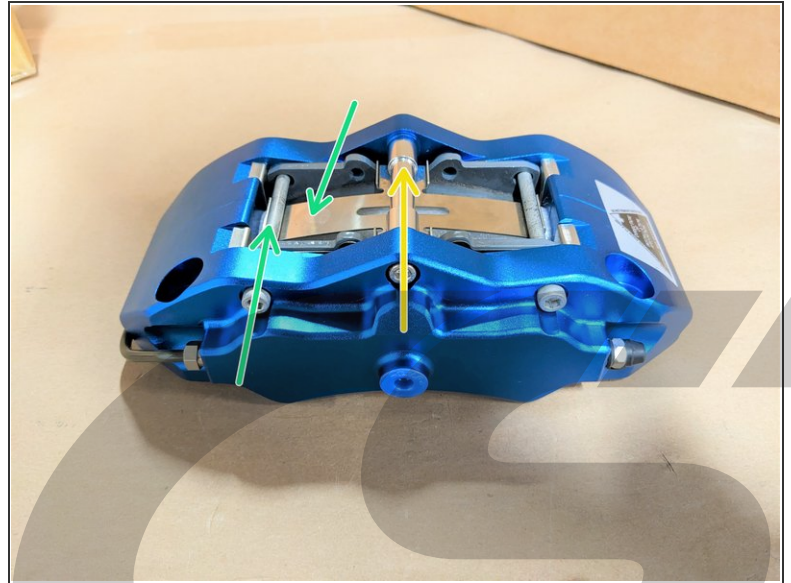
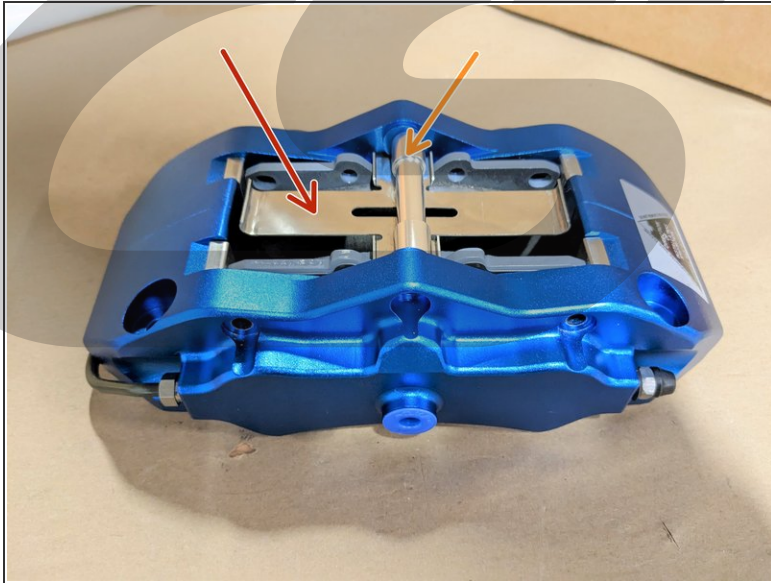
- ❗ Before installing the new brake pads, the caliper pistons must be compressed back into the caliper. This is done most easily (and without special tools) with the old pads still in place
 - Using a large screwdriver, pry between the old brake pad and the rotor as shown
 - ❗ There is also a special tool that can be used that is specifically made for compressing multi-piston calipers as shown in the second image
 - After pistons have been compressed into the caliper, the old pads can be removed by lifting them straight out or pushing upwards from the bottom of the caliper
 - After pad removal, caliper will appear as shown in the third image
- ❗ Do not discard pad backing plate on Brake Pads

Step 5 — New Brake Pad Installation Part 1



- Remove the Backing Plate from the old Brake Pads and place it onto the backside of the new Brake Pads
- Insert the New Brake Pads into the Brake Caliper
 - ⓘ Ensure the New Pad is fully seated, straight, and backed firmly against the wall of the caliper
 - ⓘ Ensure the Friction Material is facing the Brake Rotor

Step 6 — New Brake Pad Installation Part 2



- Reinstall the Brake Pad Retaining Plate as shown
 - ⓘ Ensure that the ends of the plate are facing upward, as shown in the images
- Reinstall the Center Rod
- Loosely Install the Center Bolt, ensuring it goes through the Center Rod
- While pushing down on one side of the Brake Pad Retaining plate, insert and loosely install the Side Bolt
 - ⓘ Pushing on the end of the bolt with thumb pressure will help guide the Bolt into place
 - Repeat for the other Side Bolt
- Tighten all Three(3) bolts until snug with a 5mm Allen Wrench/socket

Step 7 — Repeat for Opposite Side



- Repeat steps 2-6 on the opposite side of the vehicle



Step 8 — Brake Bleeding Part 1



- ☑ Brake bleeding is typically not required for a simple pad change. We include this info for reference as it is never a bad idea to double check
- ⓘ We strongly recommend getting a friend to help you bleed your brakes. It makes the whole process much faster & easier
- Locate the brake master cylinder under the hood of your vehicle
- ⓘ Throughout the bleeding process we will reference this unit
- Locate the two bleed screws at the top of each of your calipers. They will be covered with black rubber dust boots
- Instead of buying a fancy brake bleeder, we recommend getting a plastic bottle and a short section of 5/32" (4mm) hose. Pour some brake fluid in the bottle and place the hose in the bottle like shown in the third image. Ensure the hose is sticking into the brake fluid
- ⓘ The bottle will catch excess brake fluid during the bleeding process

Step 9 — Brake Bleeding Part 2



i For proper brake bleeding, always start with the bleed screw furthest from the master cylinder. In this case we start with the outer bleed screw on the passenger side, then passenger inner, driver outer, and finally driver inner.


! Take care when loosening & tightening the bleed screws to not scratch your fresh calipers!

- Lift the rubber dust boot from each bleed screw and then, using a 10mm wrench, tighten each bleed screw until snug
- Place a 10mm wrench onto the hex of the outer passenger bleed screw
- Place the other end of your 5/32" hose onto the outer passenger bleed screw. The setup will look like the second image
- Have your friend pump the brakes hard 3-5 times, then hold the brake pedal down
- While your friend holds the pedal, loosen the outer passenger bleed screw. Fluid and air will come out of the bleed screw and the pedal will travel to the floor
- Once the pedal is on the floor, re-tighten the bleed screw. Once tight, your friend can lift their foot from the pedal

Step 10 — Brake Bleeding Part 3



- Repeat the pumping & holding procedure from the previous step 3-5 times or until no more air bubbles are coming out of the bleeder hose
- Check fluid level in the master cylinder. Top off with SAE J1703 DOT3 fluid as needed
- Repeat the bleeding procedure on the inner passenger's side bleed screw, then outer driver, and finally inner driver

 **Top off brake fluid as needed between each bleed screw**

- Once complete with all bleed screws, complete one final pumping & holding procedure on all bleed screws. Use the same order as before
- By this stage, there should be no air coming from the brake bleed screws and the brake pedal should be firm
- Verify there are no brake fluid leaks and top off your fluid one final time before moving on
- Clean your brake rotors with brake parts cleaner

Step 11 — Final Reassembly



- Reinstall your wheels onto the vehicle
- Torque your wheels in a star pattern to 80-90ft-lbs using a 17mm or 21mm socket and torque wrench
- ⓘ If you have aftermarket wheels you may need a different socket

Step 12 — Brake Pad Bedding



- ① In order for your brake pads & rotors to wear evenly, you must complete the following procedure to "bed" in the pads & rotors
- ① Carefully drive to an open road with no cars around. You will be performing many accelerations & stops. Do not attempt to stomp on the brakes right after install
- ① You may notice a brake smell and/or some smoke during this operation. This is normal as the brakes will get very hot during bedding
 - Accelerate until ~30MPH. Brake smoothly and evenly until almost stopped and then again accelerate to ~30MPH
 - Repeat the previous step ~10 times
 - Accelerate to ~45MPH. Brake much more aggressively until almost stopped. Then accelerate again until ~45MPH
 - Repeat the previous step ~3 times
 - Drive the car around for 15 minutes to let the brake system cool. The less you use the brakes the better

Step 13 — Installation Complete



- After bedding, you are now able to drive normally!
- This completes your installation of the replacement brake pads for you CorkSport Big Brake calipers.
- Contact us with any questions or concerns at sales@corksport.com or (360) 260-2675.
- Please leave a review here: <https://corksport.com>
- Share your experience using #CorkSport on Instagram, Facebook, and Twitter.