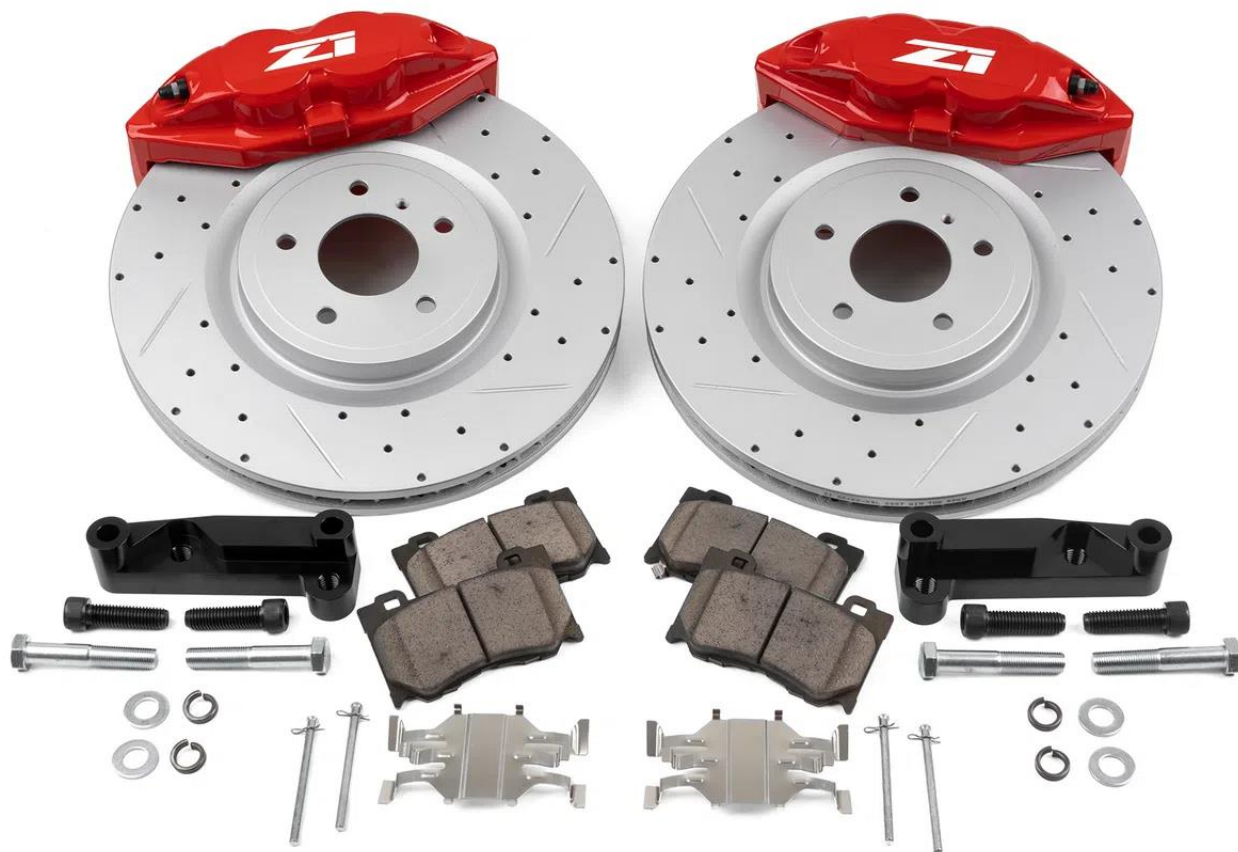


# Z1 350Z/G35 STREET FORGED/AKEBONO FRONT BIG BRAKE KIT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2003-2008	Nissan 350Z
2003-2007	Infiniti G35 (Coupe)
2003-2006	Infiniti G35 (Sedan)

## PROLOGUE:

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

## WARNING!

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Motorsports 350Z/G35 Street Forged/Akebono Front Big Brake Kit, consult with a Professional Mechanic, or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Brake Pads w/ Hardware
2	1	Driver Side Brake Rotor
3	1	Passenger Side Brake Rotor
4	1	Driver Side Brake Caliper
5	1	Passenger Side Brake Caliper
6	1	Driver Side Caliper Bracket
7	1	Passenger Side Caliper Bracket
8	4	M14 x 1.5 Hex Head Bolt, 50mm
9	4	M14 x 1.5 Hex Head Bolt, 80mm
10	4	Lock Washer
11	8	M14 Washer
12	2	Reusable Zip Tie
Optional:		
13	2	Banjo Bolt
14	4	Crush Washer
15	1	Z1 Stainless Steel Brake Lines
16	1	Brake Fluid

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Wrenches
- Assorted Metric Sockets
- Torque Wrench
- Channel Lock Pliers
- Brake Pad Grease
- Hammer

## **SAFETY REQUIREMENTS:**

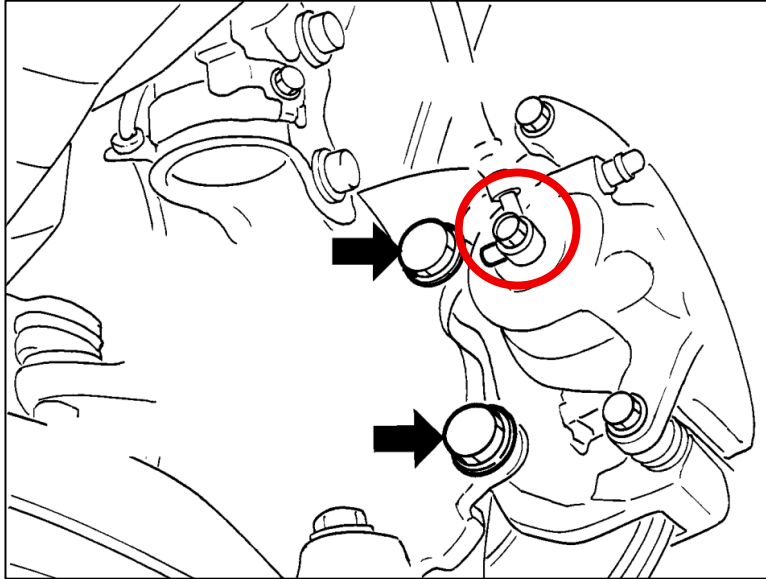
- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Only operate drivetrain in safe space and well-ventilated areas.

## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Motorsports 350Z/G35 Street Forged/Akebono Front Big Brake Kit and verify that ALL necessary hardware is present.

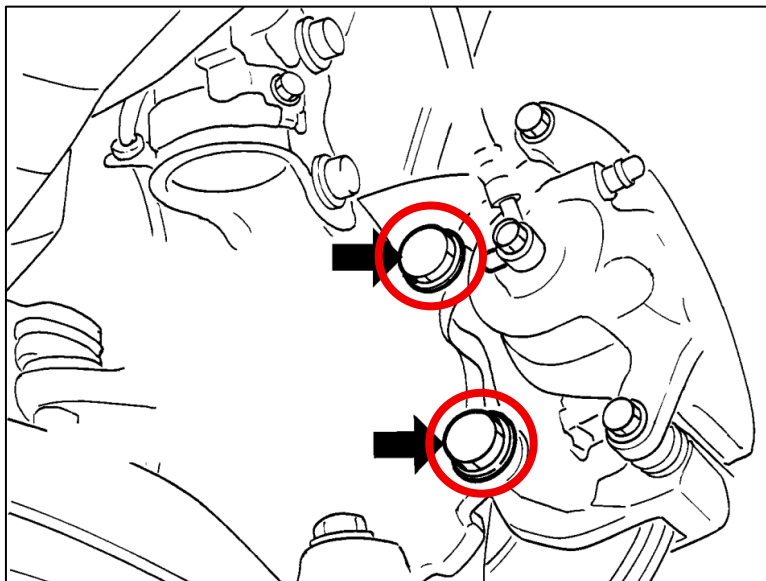
## **PROCEDURE:**

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Loosen but do not remove the Lug Nuts on the Front Wheels.
3. Locate the proper jacking points on the vehicle's chassis (refer to the Vehicle's Owner's Manual). Raise and support the vehicle using a jack and jack stands.
4. Remove the Front Wheels and Lug Nuts.
5. Starting on the Driver Side of the vehicle, disconnect the Brake Line from the Caliper. Brake Fluid will leak out, quickly clean up any spilled fluid as Brake Fluid will damage painted surfaces. *Figure 1.*



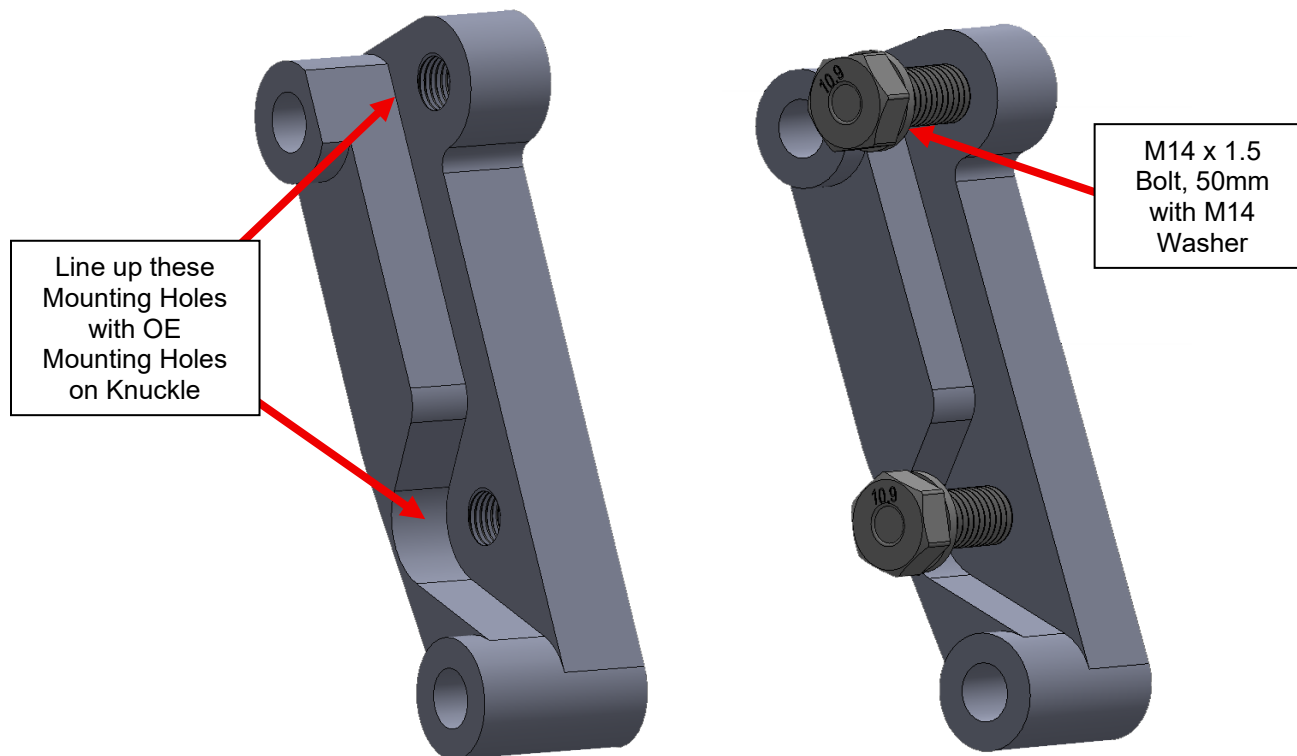
*Figure 1*

6. Remove the (2) two bolts securing the Caliper to the Knuckle and remove the Caliper from the vehicle. *Figure 2.*



*Figure 2*

7. Remove the Brake Rotor from the vehicle.
8. If you are installing new Z1 Stainless Brake Lines, do so at this time. Refer to the [Brake Line Guidelines](#) when installing. Route the Brake Lines the same as the OE Lines.
9. Locate the Driver Side Caliper Bracket, (2) two M14 x 1.5 Hex Head Bolts, 50mm and (2) two M14 Washers. Position the Bracket on the inboard side of Brake Mounting points of the Knuckle and secure with the M14 Bolts with a Washer. Torque the M14 Bolts to **75 ft-lbs.** *Figure 3.*

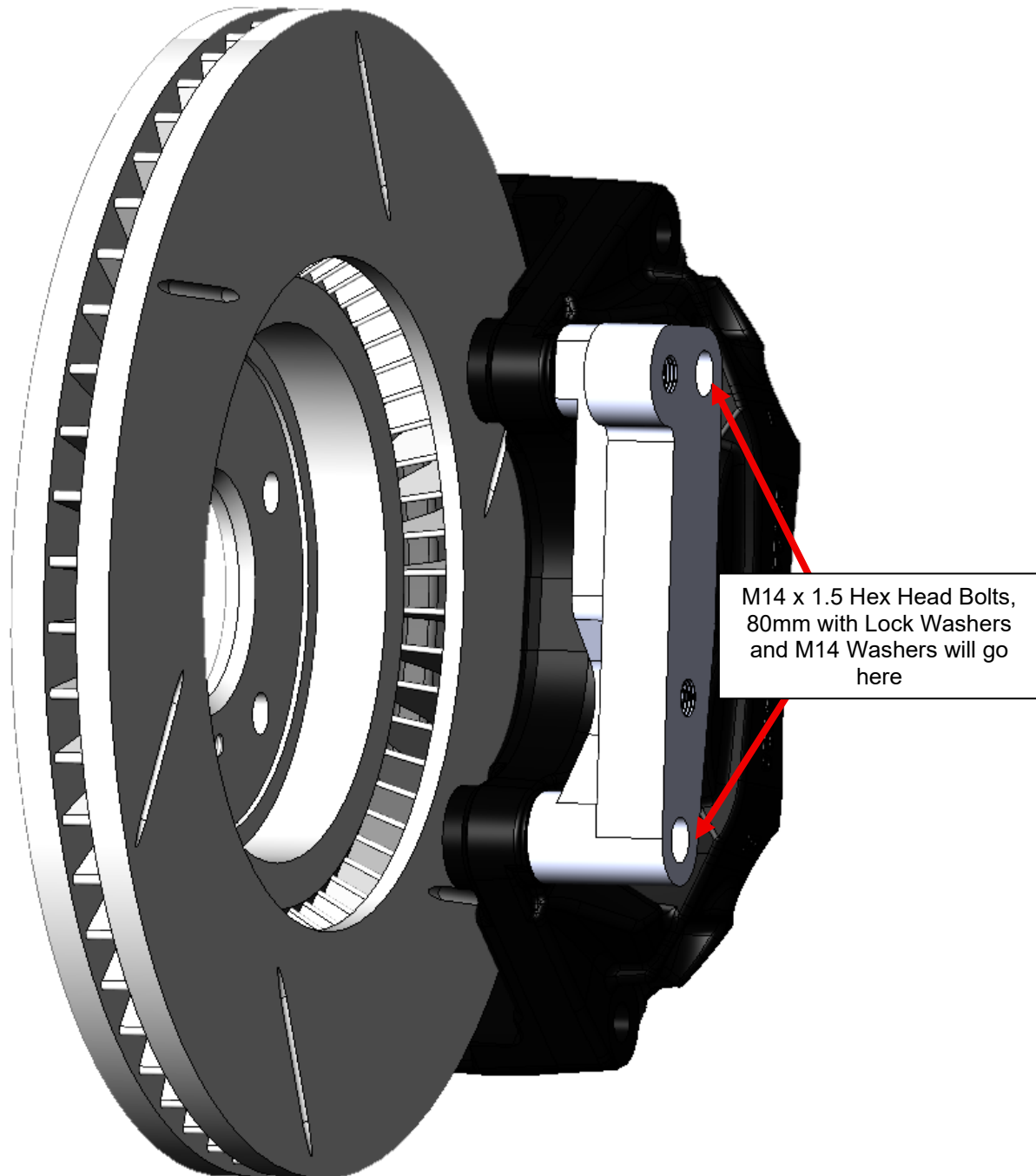


*Figure 3*

10. Locate the Driver Side Rotor. Install the Rotor onto the Wheel Hub and secure it with a few Lug Nuts so it sits flush.

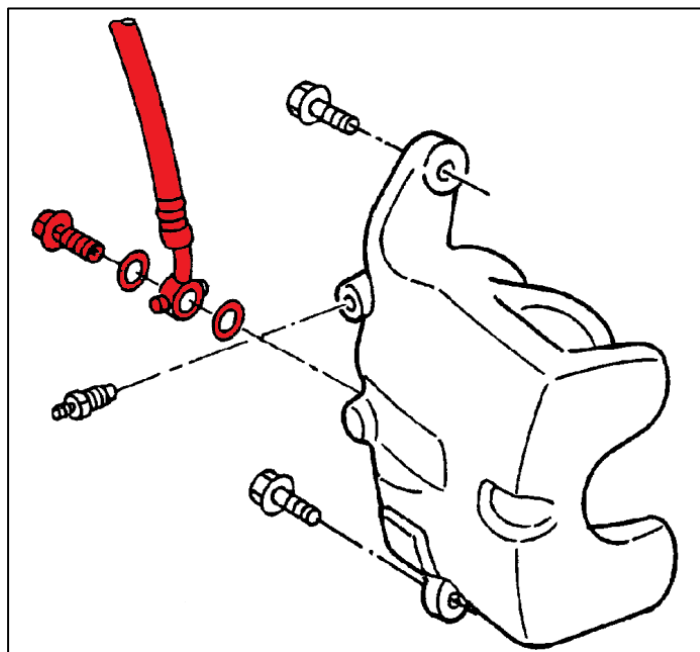
11. Locate the Driver Side Caliper, (2) two M14 x 1.5 Hex Head Bolts, 80mm, (2) two M14 Washers and (2) two Lock Washers. Position the Caliper over the Rotor with the mounting points between the Rotor and the Adapter Bracket. Secure the Caliper to the Bracket with the M14 Bolts, Lock Washer and M14 Washer, in that order. Torque to **98 ft-lbs**. *Figure 4*.

**NOTE:** Ensure the Bleeder Ports of the Caliper are pointed upwards when mounted.



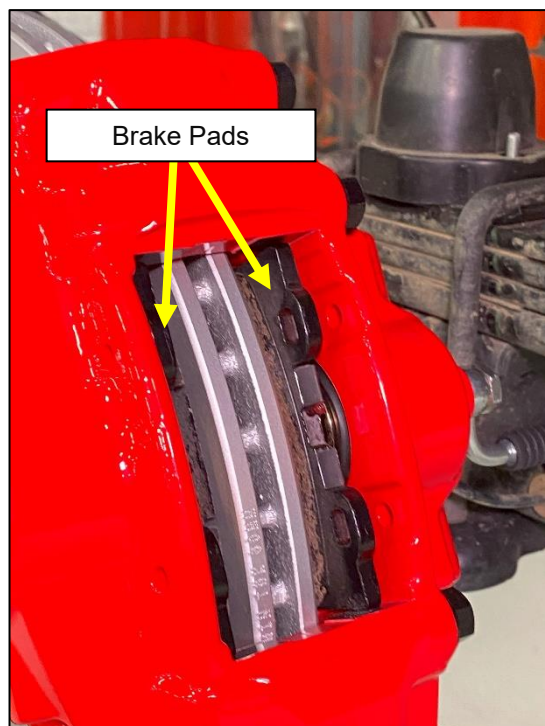
*Figure 4*

12. Spin the Brake Rotor and check for clearance between the Rotor to Caliper and Rotor to Brake Dust Shield. Adjust the Dust Shield if necessary.
13. Install either the OE Brake Line or new Stainless Steel Brake Lines into the back of the Caliper. Make sure to use new Crush Washers if you are reusing the OE Brake Line. *Figure 5.*



*Figure 5*

14. Locate (1) one set of Brake Pads and Pad Hardware. Add a small amount of Brake Grease to the back side of the Brake Pads. Insert (1) one Brake Pad on each side of the Rotor with the pad facing the Rotor. *Figure 6.*



*Figure 6*

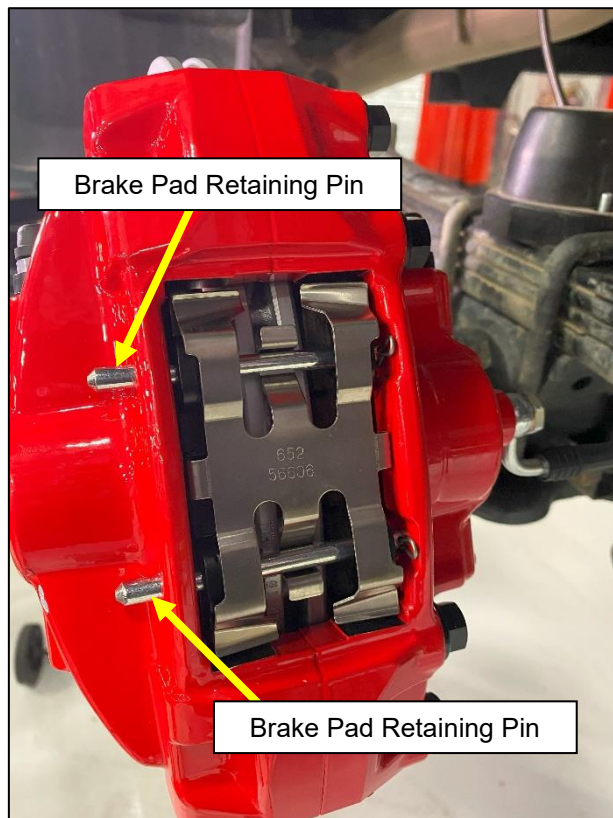


15. Locate (1) one Front Brake Pad Retainer from the Hardware Kit. Install it onto the Brake Pads and Caliper as shown below. *Figure 7.*



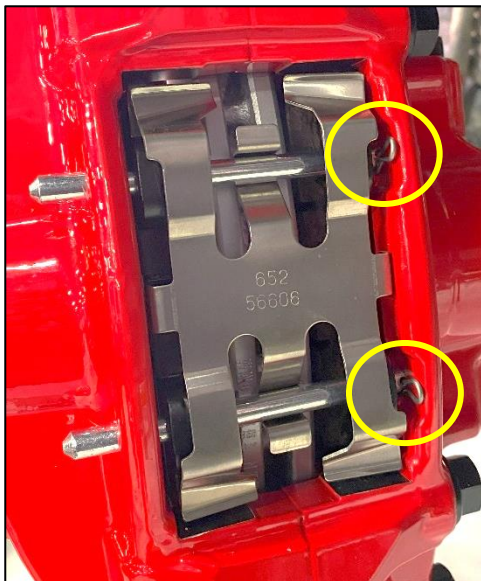
*Figure 7*

16. Locate (2) two Front Brake Retaining Pins. Insert them through the inside of the Caliper as shown. The Pins will go through the Ears of the Brake Pads and over the middle of the Pad Retainer. The Pins may need to be slightly tapped with a hammer to go through the Caliper. *Figure 8.*



*Figure 8*

17. Locate (2) two Cotter Pins. Insert them through the Brake Pad Retaining Pins installed in *Step 16*. The Retaining Pins may need to be rotated to allow access to the Cotter Pin Holes. *Figure 9*.



*Figure 9*

18. Repeat *Steps 5-17* for the Passenger Side of the vehicle.
19. Bleed the Brakes in accordance with the Factory Service Manual, starting with the Rear Passenger Side Caliper. If you are also installing the Z1 Rear Big Brake Kit for your vehicle, wait to bleed the system until they are installed. There are (2) two Bleeders per Caliper, make sure to bleed both starting with the inside Bleeder.
20. Once Brakes have been bled, reinstall the Wheels and Lug Nuts.
21. Safely lower the vehicle from jack stands.
22. Take your vehicle for a test drive. Test Brake function before going on the road. Bed your Brake Pads in accordance with the Pad Manufacturer Instructions.

**END**

**Additional Technical Support:**  
Contact Z1 Motorsports at [info@z1motorsports.com](mailto:info@z1motorsports.com)  
Or call 770-838-7777 between 9am and 6pm ET