

Z1 300ZX STREET FORGED/AKEBONO FRONT BIG BRAKE KIT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

1990-1996

Nissan 300ZX (Z32)

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 300ZX 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	Driver Side Caliper
2	1	Passenger Side Caliper
3	1	Driver Side Rotor
4	1	Passenger Side Rotor
5	1	Brake Pads w/ Hardware
6	2	Brake Hard Line
7	1	Front Left Adapter Main
8	1	Front Left Adapter Secondary
9	1	Front Right Adapter Main
10	1	Front Right Adapter Secondary
11	2	M12 x 1.25 Flanged Hex Head Screw, 55mm
12	2	M14 x 1.5 Hex Head Screw, 75mm
13	2	M14 x 1.5 Hex Head Screw, 65mm
14	2	M12 x 1.25 Hex Head Screw, 80mm
15	4	M14 Washer
Optional Parts		
16	1	Stainless Steel Brake Line Kit
17	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
- Cutoff Wheel/Dremel

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 300ZX 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 the lug nuts on the front wheels, but do not remove them yet.
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 lug nuts and wheels.
5. Starting on the Driver Side of the vehicle, disconnect the Brake Line from the Caliper. Brake fluid will leak out, so prepare a bucket, rag, or cap to catch leaking fluid. Clean up any spilled Brake Fluid immediately as it will damage painted surfaces. Disconnect the Hardline from the soft line. *Figure 1.*

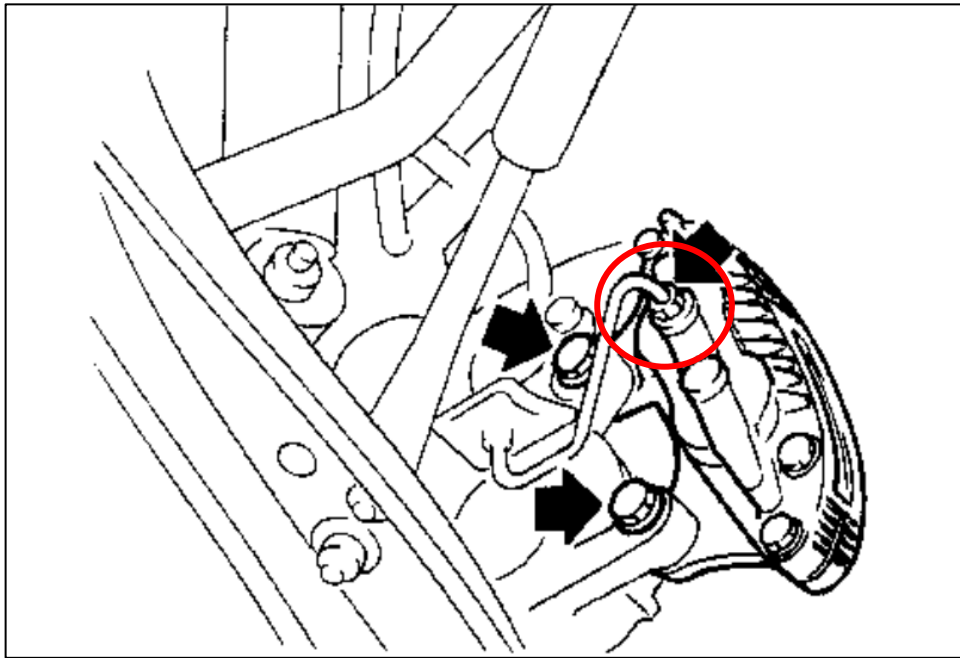


Figure 1

6. Remove the (2) two Caliper Mounting Bolts and remove the Caliper from the vehicle. Retain this hardware. *Figure 2.*

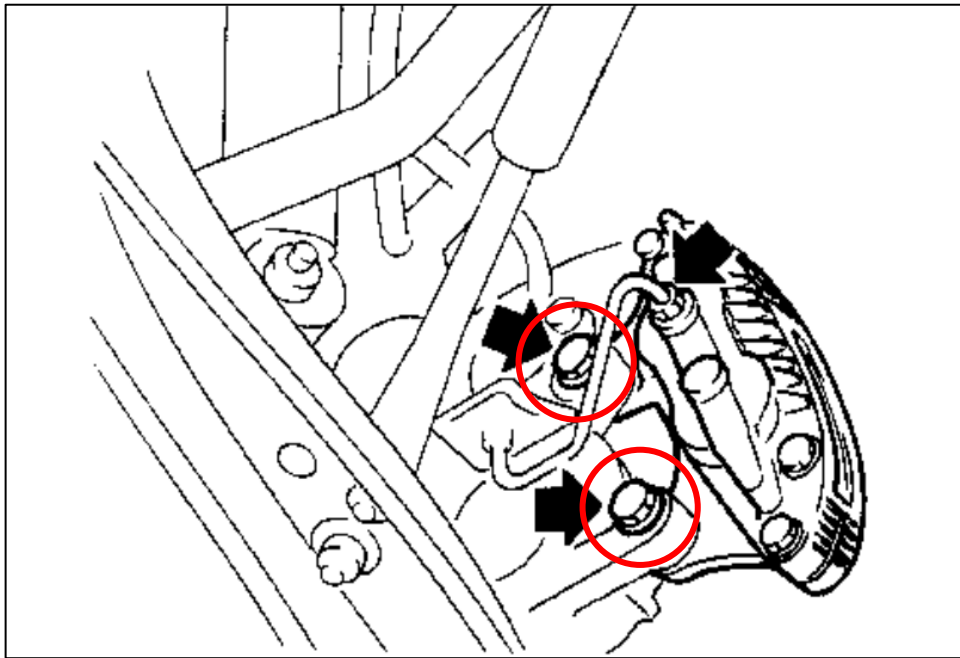


Figure 2

7. Remove the Brake Rotor from the vehicle.
8. The Dust Shield will need to be trimmed or completely removed to clear the Bracket and larger Brake Rotor. Using a Cutoff Wheel, Dremel, Tin Snips or similar tool, trim the Dust Shield as shown below. *Figure 3.*

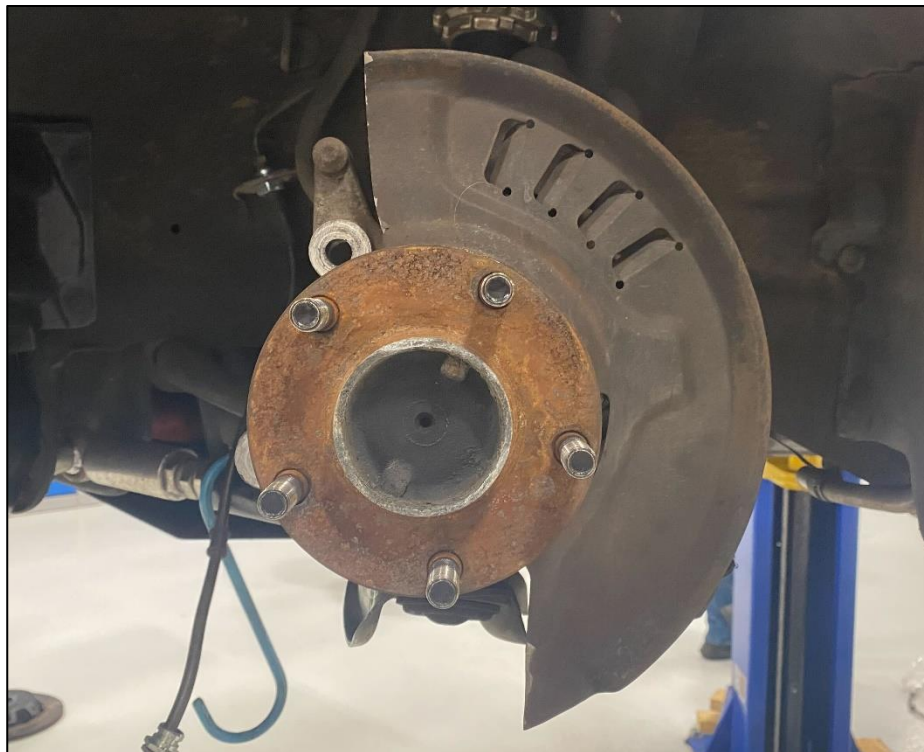


Figure 3

9. Locate the Driver Side Rotor. Install the Rotor onto the Wheel Hub. Secure with (1) one or (2) two Lug Nuts to prevent the Rotor from falling.
10. Spin the Rotor and check the gap between the Rotor and the Dust Shield. Trim or bend the Dust Shield as necessary to prevent contact. *Figure 4.*

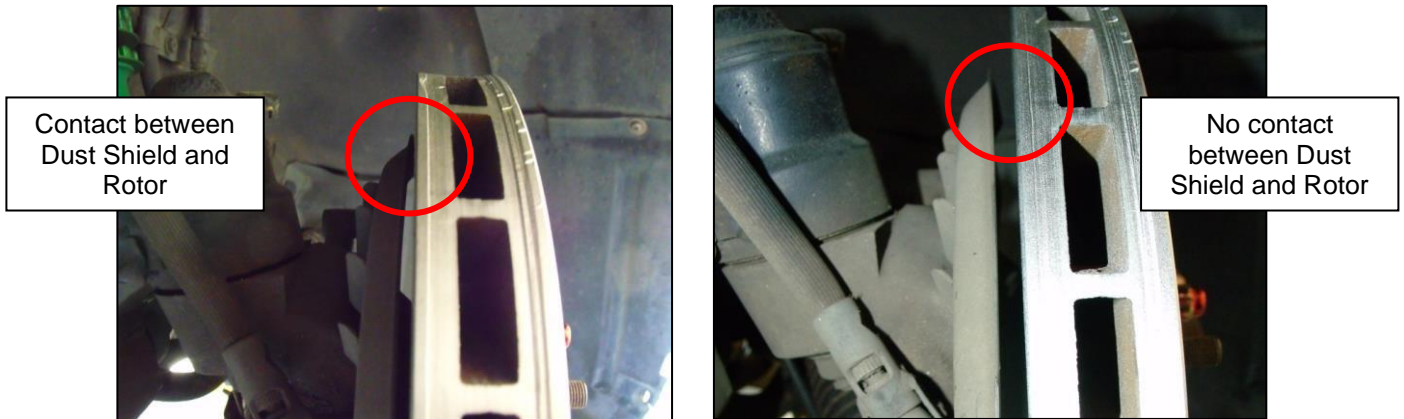


Figure 4

11. Remove the Rotor from the Wheel Hub.
12. Locate the Front Left Adapter Main, Front Left Adapter Secondary, (1) one M12 x 1.25 Flanged Hex Head Screw, 55mm and (1) one M12 x 1.25 Hex Head Screw, 80mm. Position the Front Left Adapter Main onto the inboard side of the OE Caliper Mounting Points. Secure the lower mounting point with the M12 Flanged Hex Head Screw. *Figure 5.*

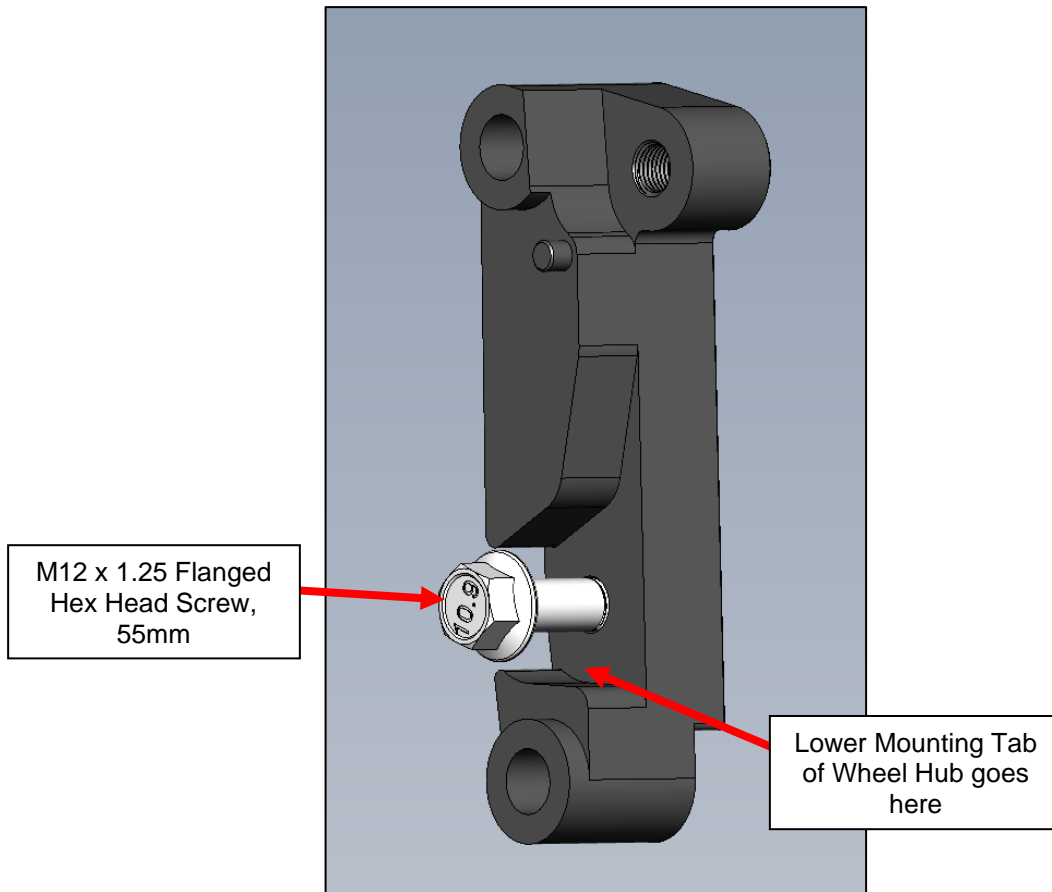


Figure 5

13. Position the Secondary Adapter on the outboard side of the upper Caliper Mounting Point. Align the Secondary Adapter with the tab on the Main Adapter. Secure with the M12 Hex Head Screw. *Figure 6.*

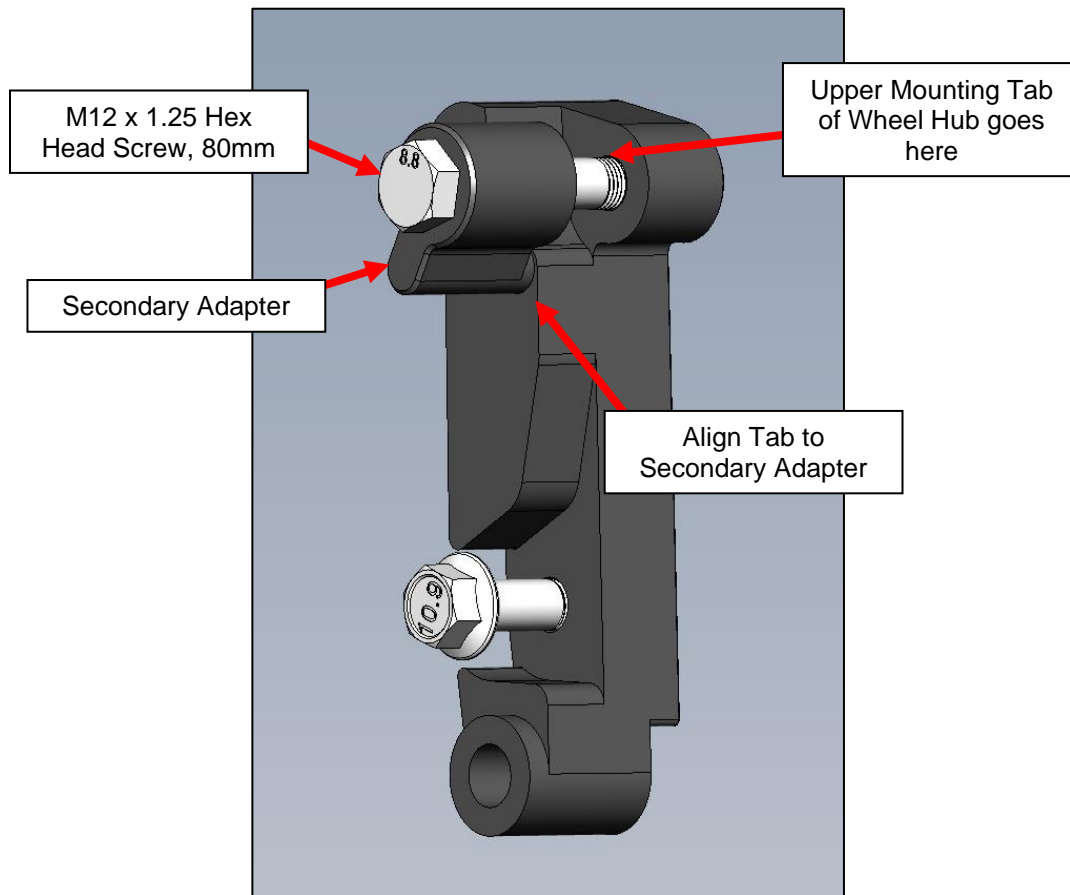


Figure 6

14. Torque the M12 Bolts to **72-87 ft-lbs.**
15. Reinstall the Front Rotor. Install a lug nut or two to secure the rotor.

16. Locate the Driver Side Caliper, (1) one M14 x 1.5 Hex Head Bolt, 75mm, (1) one M14 x 1.5 Hex Head Bolt, 65mm and (2) two M14 Washers. Position the Caliper over the Rotor with the mounting points between the Rotor and the Adapter Bracket. Secure the top of the Caliper to the Adapter with the 75mm Bolt and a Washer. Secure the bottom of the Caliper to the Adapter with the 65mm Bolt and a Washer. Torque bolts to **91 ft-lbs.** *Figure 7.*

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

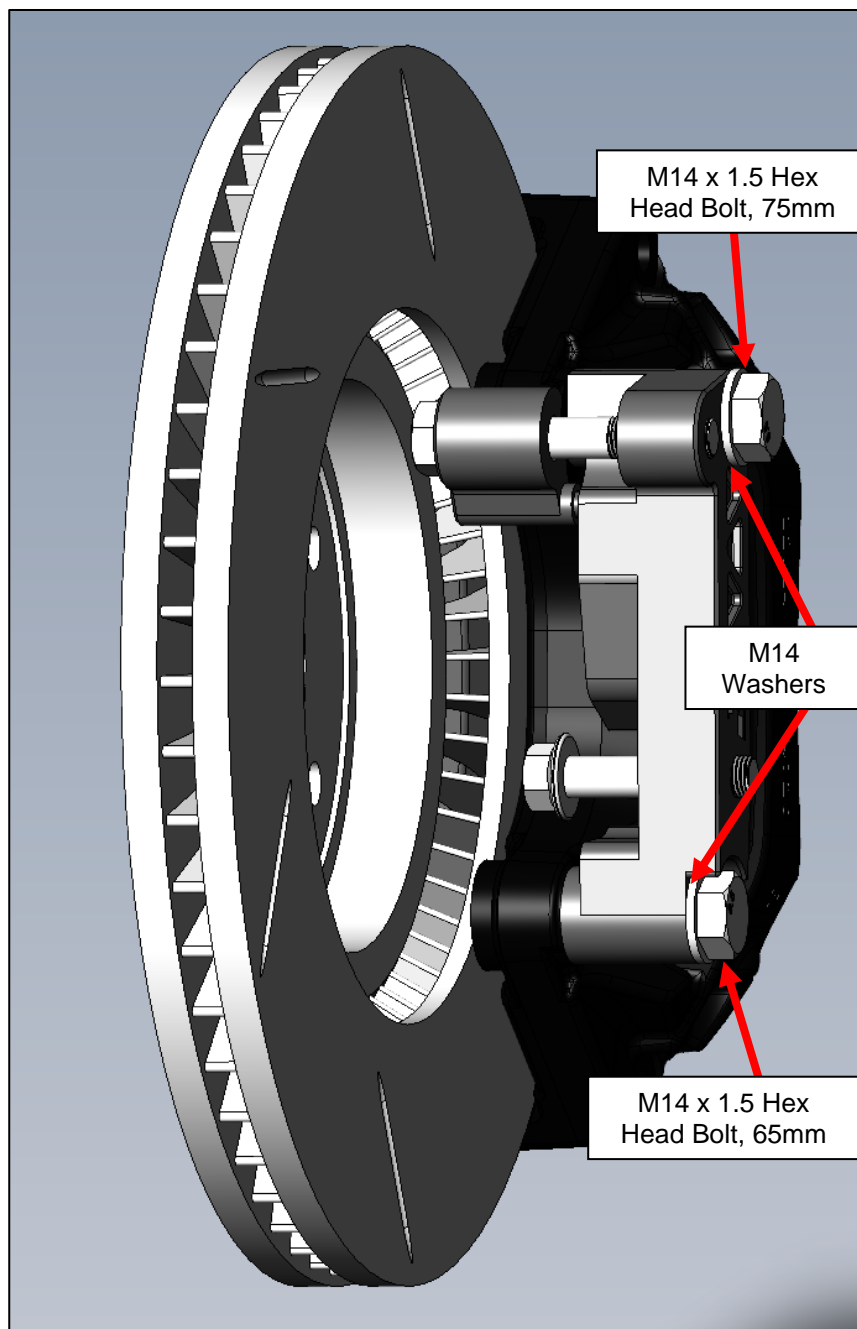


Figure 7

17. If you are NOT installing new Stainless Steel Brake Lines, skip to *Step 20*. Remove the OEM Brake Line. It will be held on by (4) four Retaining Clips. Remove the Retaining Clips with Pliers and unbolt the Soft Line from the Hardline on the Frame. More Brake fluid will most likely leak out. *Figure 8*.

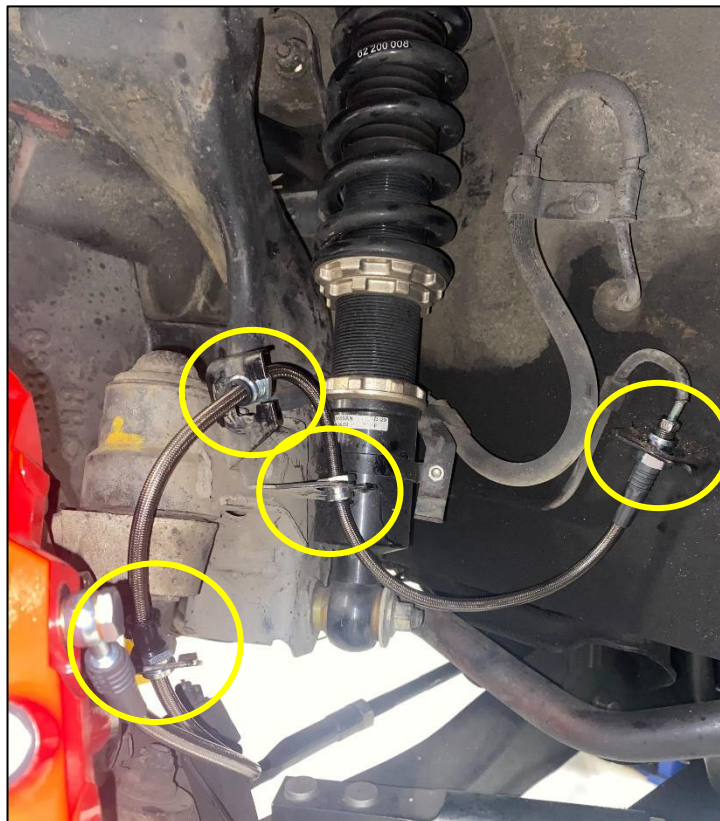


Figure 8

18. Locate the new Brake Line. If you have both Front and Rear Brake Lines, the Front Lines are the longer ones. Install the open end into the Brake Hard Line on the chassis and secure it with an OEM Retaining Clip. *Figure 9*.

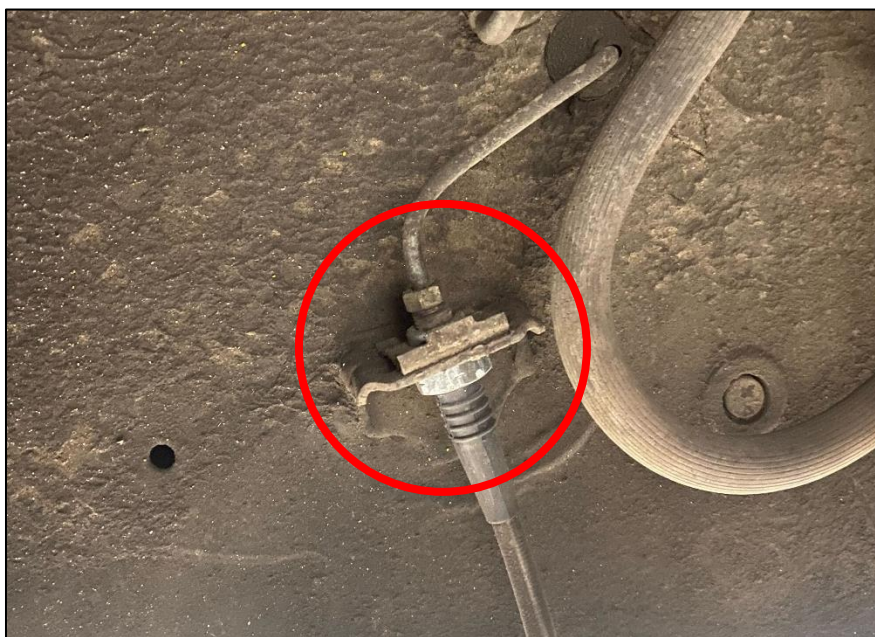


Figure 9

19. Route the rest of the Brake Line through the other (3) three Mounting Points. The Mounts on the Brake Line can be moved to fit the Brackets as necessary. Secure the Line with the OEM Retaining Clips. *Figure 10.*

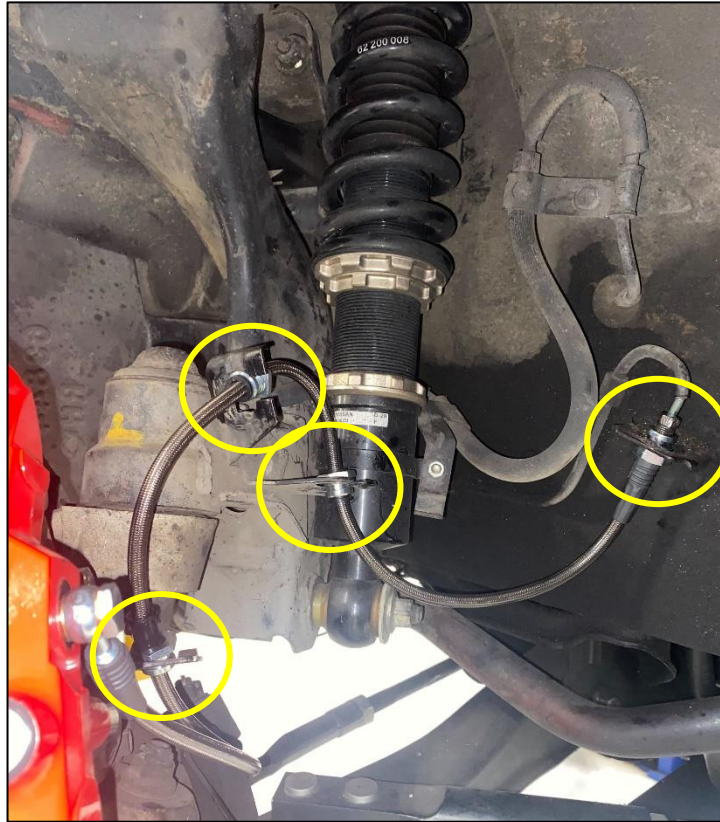


Figure 10

20. Locate (1) one Brake Hard Line. Install it into the back of the Caliper and into either the OE Soft Brake Line or the new Stainless Steel Brake Line.

21. 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 11.*

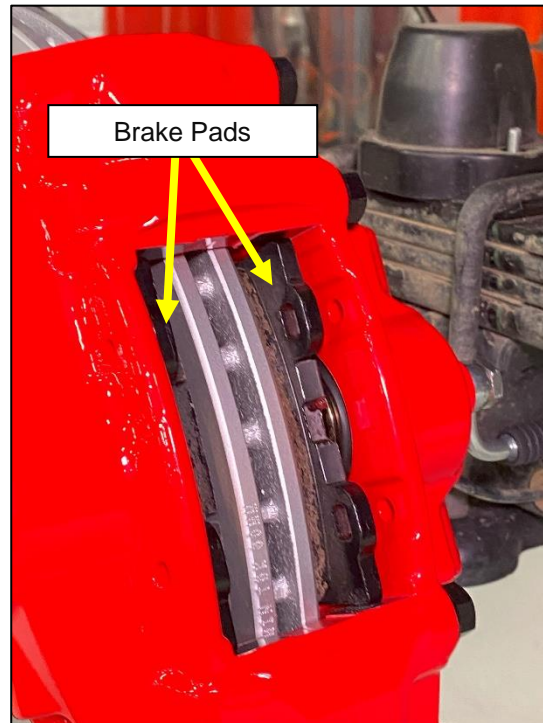


Figure 11

22. Locate (1) one Front Brake Pad Retainer from the Hardware Kit. Install it onto the Brake Pads and Caliper as shown below. *Figure 12.*



Figure 12

23. 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 13.*

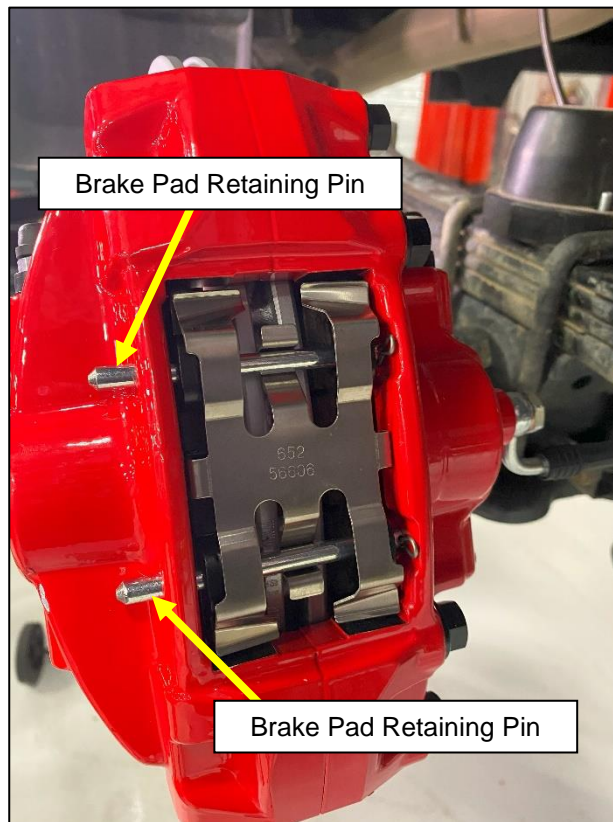


Figure 13

24. Locate (2) two Cotter Pins. Insert them through the Brake Pad Retaining Pins installed in *Step 23*. The Retaining Pins may need to be rotated to allow access to the Cotter Pin Holes. *Figure 14.*

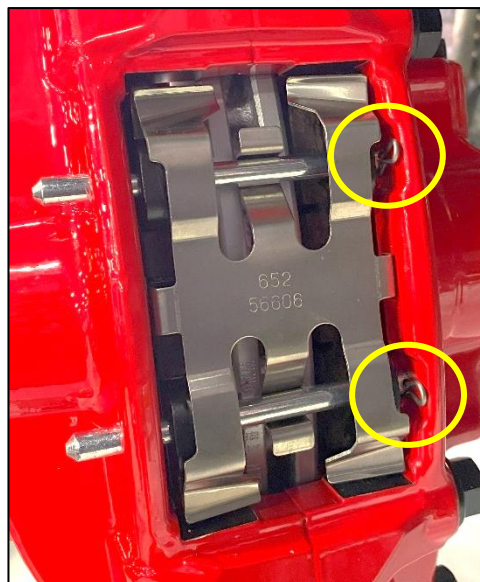


Figure 14

25. Repeat *Steps 5-24* for the other side of the vehicle.
26. Bleed the Brakes in accordance with the Factory Service Manual (FSM), 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, bleed both starting with the inside Bleeder.
27. Once Brakes have been bled, reinstall the wheels and lug nuts.
28. Safely lower the vehicle from jack stands.
29. Take your vehicle for a test drive. Bed your Brake Pads in accordance with the Pad Manufacturer instructions.

END

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