

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



This Installation Manual is intended for the following models:

1990-1996

Nissan 300ZX

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 Rear Big Brake Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Caliper - Driver
2	1	Caliper - Passenger
3	1	Rotor - Driver
4	1	Rotor - Passenger
5	1	Brake Pads & Hardware
7	1	300ZX Big Brake Kit Rear Bracket - Driver
8	1	300ZX Big Brake Kit Rear Bracket - Passenger
11	4	M12 x 50mm Bolt
13	4	M12 Lock Washer
14	4	M12 x 24mm OD Flat Washer
Optional Parts		
16	1	Stainless Steel Brake Lines - Z32
17	1	Brake Fluid

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- 14mm Socket/Wrench
- 15mm Socket/Wrench
- Torque Wrench
- Channel Lock Pliers

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:

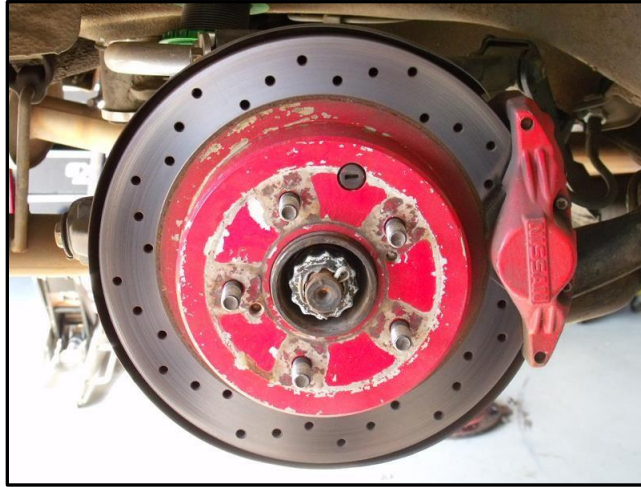
Remove contents from the Z1 Motorsports 300ZX Street Forged/Akebono Rear Big Brake Kit and verify that ALL necessary hardware is present.

PROCEDURE:

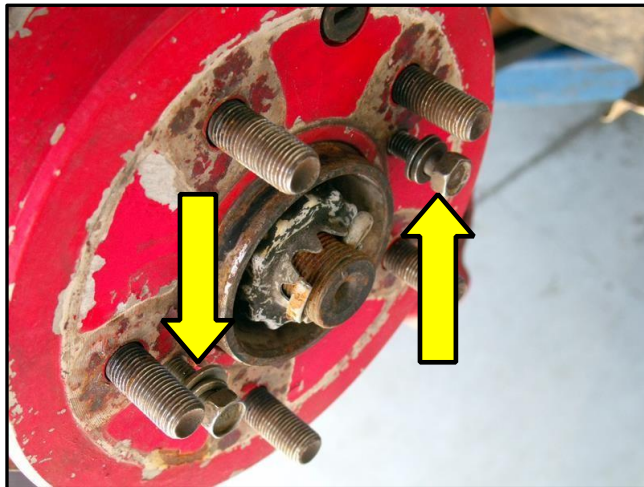
Disassembly:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission).
2. Loosen lug nuts on rear wheels but DO NOT remove them.
3. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.

4. Raise the vehicle's Hood (This step will help out later when brake fluid will be added while bleeding the brake system.)
5. Remove Rear Wheels
6. With the Rear Wheels removed, begin the disassembly of the stock 300ZX brake system:



- a. Disconnect the Rear Brake Lines from the Brake Caliper. (Use Caution when handling Brake Fluid)
- b. Unbolt the TWO 19mm Bolts securing the Brake Caliper to the knuckle. Save these bolts as they will be reused!
- c. Remove the stock calipers.
- d. Remove the stock Brake Rotors from the Hub Assembly. To do so, you will need two M8 x 1.0 Bolts ~ 50mm in length. Screw the two bolts into the threaded holes on the rear brake rotors. While applying an even amount of pressure, slowly turn tighten the bolts down. This will press the rear rotor OFF of the hub assembly. Refer to the image on the following page:



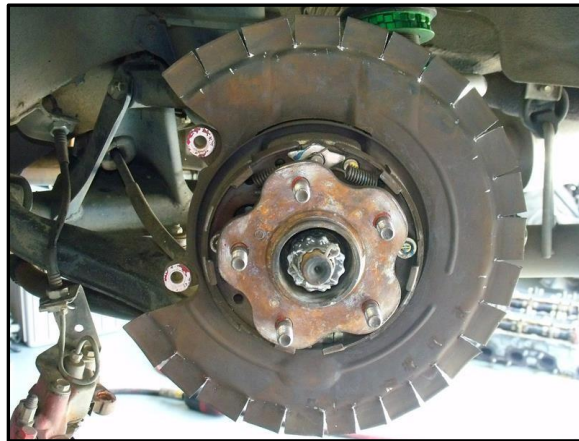
Installation Note #1:

At this point, if you are planning on installing new, aftermarket or the optional Z1 Motorsports SS Brake Lines, it would be recommended that they are installed now before continuing on with the installation.

Installation:

In order to install the Z1 Motorsports 300ZX Big Brake Kit Brake Caliper Adapter Brackets, the factory dust shields must either be removed completely or cut to clear the new calipers, brackets and bolts. It is not necessary to remove the dust shields in order to properly install this big brake kit.

Referring to the images below, two sections of the dust shield must be trimmed away:



7. Locate the two Z1 Motorsports 300ZX Big Brake Kit Rear Brake Caliper Adapter Brackets and the Stock Brake Caliper bolts removed in Step #5B.

Installation Note #2:

The Z1 Motorsports 300ZX Big Brake Kit Brake Caliper Adapter Brackets can only be installed one way. There is a RIGHT SIDE and a LEFT SIDE. Make sure that the Welded Spacers are facing towards the outside of the vehicle. Be sure to line up the threaded holes on the adapter bracket with the holes on vehicle's Rear Knuckle (The factory mounting points for the OEM 300ZX Brake Caliper).

8. After positioning the Brake Caliper Adapter Bracket, insert the factory Nissan brake caliper bolt through the original mounting points for the stock brake caliper. Evenly torque the two bolts in repeating series to ensure that the bracket is bolted on properly.

Installation Note #3:

It may be necessary to trim away material on the rear dust shields near the mounting bolts in facilitate a proper installation. Refer to the following image:



9. Locate the two 370Z Sport Rear Rotors.
10. Install the rotors, using 2 or 3 lug nuts to secure the rotors to the vehicle. This will also allow the rotors to be completely vertical, preparing you for the next step. BE SURE TO TIGHTEN DOWN THE LUG NUTS! You will have to “press” the calipers into place, performing the opposite of Step #5D.

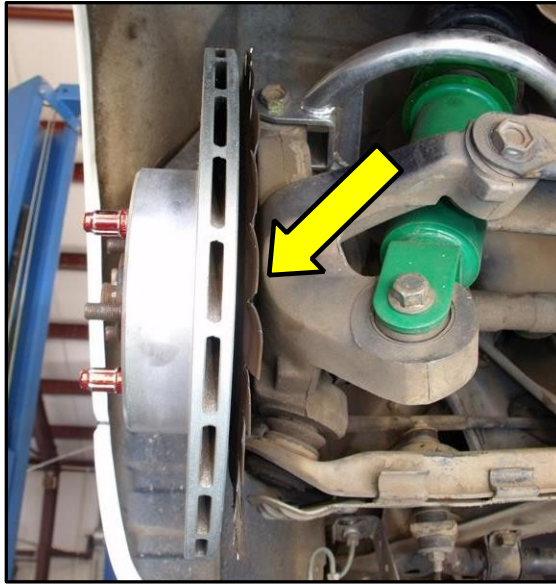


Installation Note #4:

If you opted to remove the factory front caliper dust shield, you may skip to Step #12 to continue the installation.

11. Position yourself so that you are looking at the rear wheel. (Facing towards the rear of the vehicle.)

12. Slowly rotate the brake rotor. While doing so, note the gap between the top edge of the dust shield and the inside face of the brake rotor. Ensure that the dust shield IS NOT touching the brake rotor. If it is touching the Brake Rotor, you can pry the dust shield away. This may take a little adjusting to make the gap sufficient.



13. Locate the following pieces:
- a. Big Brake Kit Rear Brake Calipers (x2)
 - b. Retaining Clips (x4)
 - c. Retaining Pins (x4)
 - d. Big Brake Kit Brake Pads (x1)
 - e. Big Brake Kit Rear Brake Caliper Installation Kits (x2)

14. Assemble the Front Brake Calipers before installing them onto the vehicle.

Installation Note #5:

If you are using an upgraded, NON-Nissan Brake Pad, you will NOT use the included shims. These shims are for OEM Nissan and NISMO Brake Pads only.

It is recommended that some sort of Brake Disc Quiet Compound is placed on the back side of the brake pads. This can be purchased from any local auto parts store.

15. Locate the two 22mm Brake Caliper Adapter Bolts supplied in the kit.
16. Attach the assembled Big Brake Kit Brake Caliper to vehicle and bolt it down using the supplied 22mm Brake Caliper Adapter Bolts. (Be sure to bolt the calipers where the Bleeder Screw is facing UP). If it is not, then relocate that caliper to the opposite side.
17. With the Caliper bolted down, reposition yourself so that you can see both the top and bottom of the Big Brake Kit Brake Caliper. Carefully inspect the gap between the brake caliper and rotor. The gap should be roughly even. If it is not, you may need to shim one side in order to properly locate the caliper. Use on of the supplied Washers to do so. Re-inspect the calipers alignment after adding the washer.
18. Re-attach the OEM Metal Brake Line to the Big Brake Kit Brake Calipers.
19. Double check all fasteners and fittings.

20. Bleed the brake system (Remember: The new Big Brake Kit Brake Calipers have **TWO BLEED SCREWS PER CALIPER**. Following the standard procedure of beginning with the wheel furthest from the Brake Master Cylinder and working closer. Begin each wheels outside bleeder screw and then move to the inside one. This step will need to be repeated a few times for a proper bleed)
21. Re-install the rear wheels and the previously removed brake line brackets.
22. Perform a final test drive of the vehicle.

END

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