



**Z1 Motorsports 1200 Carrollton Villa Rica Hwy Carrollton GA 30116 770.838.7777**

## **Z1 Motorsports 300zx Brembo Brake Bracket Installation Manual (Front)**



### **Parts Included:**

- 2 Z1 Motorsports 300zx Brembo Brake Brackets (Pair)**
- 1 Z1 Motorsports 300zx Brembo Brake Bracket Installation Manual**
- 4 M12 x 1.25mm x 70mm Grade 8.8 Hex Cap Bolts**
- 4 ½" ID Split Lock Washers**
- 4 ½" ID 0.010" Stainless Steel Shim Washers**

### **Additional Parts Needed (Optional\*):**

- 1 OEM Brembo Nissan 350Z/Infiniti G35 Front Brake Rotors (New; Used or Aftermarket)**

*\* Optional hardware may also be purchased from Z1 Motorsports*

**WARNING!** Extreme caution should be taken when performing ANY 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 the installation or the various components included with the Z1 Motorsports 300zx Brembo Brake Bracket Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

**BRAKE FLUID WARNING!** Please be aware that Brake Fluid will damage any painted surfaces if left for an extended period of time. Use extreme caution when handling parts or painted body panels after coming into contact with Brake Fluid. Clean up spills or leaks as quickly as possible to prevent damage to the finish of the various suspension and body components.

**\*BEFORE YOU BEGIN!**

Remove all contents from the Z1 Motorsports 300zx Brembo Brake Bracket Kit and verify that ALL necessary hardware is present.

1. Properly raise and support your 300zx using jack stands and the proper jacking points on your vehicle's chassis (Refer to vehicle's Owner's Manual)
2. Apply the Parking Brake
3. Raise the vehicle's Hood
4. Remove both Front Wheels
5. With the Front Wheels removed, begin the disassembly of the stock 300zx brake system:
  - a. Unbolt the TWO 19mm Bolts securing the Brake Caliper to the King Pin. Save these bolts as they will be reused!
  - b. Remove the stock Brake Rotors from the Hub Assembly.
  - c. Depress the brake caliper pistons so that they are at their widest position.

**Installation Note #1:**

*Be careful when depressing the brake caliper pistons. DO NOT damage the brake caliper piston dust seals. Pay close attention to the Brake Master Cylinder Reservoir. Displaced brake fluid will fill up the reservoir. If fluid has been added the system it may leak out onto the body panels. Be sure to clean up all Brake Fluid spills immediately.*

6. Locate the two Z1 Motorsports 300zx Brembo Brake Brackets and the Stock Brake Caliper bolts removed in Step #5A.

**Installation Note #2:**

*The Z1 Motorsports 300zx Brembo Brake Brackets can be installed on either side. There is NOT a specific RIGHT SIDE or LEFT SIDE bracket. 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 King Pin (The factory mounting points for the OEM 300zx Brake Caliper).*

7. After positioning the Brake Caliper Adapter Bracket, insert the factory Nissan brake caliper bolts through the original mounting points for the stock brake caliper. It is recommended that a thread locking compound (Loctite ®) is used. Evenly torque the two bolts in repeating series to ensure that the bracket is bolted on properly.

The OEM Brake Caliper Bolts must be torque to between 72 ~ 87 ft/lbs.

8. Install the OEM Brembo Brake Rotor onto the hub assembly. Using a set a few lug nuts and spare washers, torque the lug nuts to between 72 ~ 87 ft/lbs. This will ensure that the rotor is properly seated during the installation of the brake caliper. This is required so that the proper spacing is achieved between the brake caliper and the rotor.
9. Using the supplied M12 brake caliper bolts; install the brake caliper as shown below. DO NOT apply thread locking compound at this time. Torque the bolts to 70 ft/lbs.

10. Refer to the image below. While looking at the brake disc, check for proper clearance around the brake disc between the disc itself and the caliper. If the clearance is too tight, use one of the supplied shim washers to correct the clearance issue.

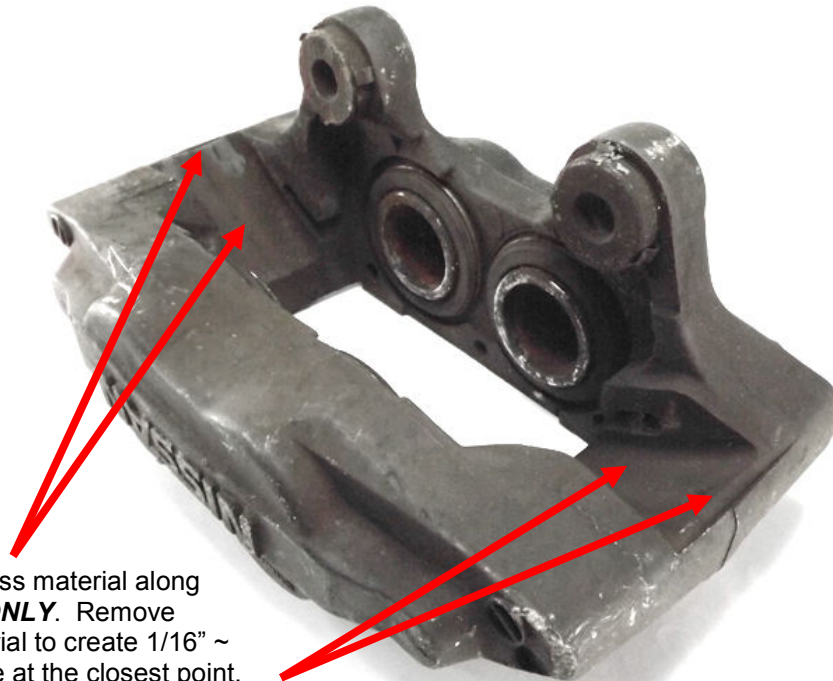
Make sure equal spacing is present between both disc faces and the brake caliper itself.



- a. Adding a shim washer between the Brake Caliper and the Z1 Bracket will shift the caliper to the OUTSIDE of the vehicle.
- b. Adding a shim washer between the Z1 Bracket and the Knuckle assembly will shift the caliper to the INSIDE of the vehicle.

Add shims as needed. Generally shims ARE NOT needed, however due to casting differences between brake rotors, OEM pieces, rust/oxidation formation, machining tolerances and shims can be used to realign the rotor within the caliper.

If there is a lack of clearance between the outer edges of the brake caliper and the disc, some material removal will be required. Use a file or pneumatic grinding tool to carefully remove material.



Remove excess material along these faces **ONLY**. Remove enough material to create 1/16" ~ 1/8" clearance at the closest point. Majority of the material will only need to be removed along the extreme edges of the calipers.

11. Once the calipers have been adjusted and clearance finalized, be sure to torque the M12 caliper bolts to 70 ft/lbs.
12. Before reinstalling the front wheels, check the clearance between the rotor disc and the front brake dust shield. If you see that the disc is coming in contact with the dust shield, simply pry/bend the shield away to create the appropriate amount of clearance.
13. Re-install any previously removed hardware and wheels.
14. Perform a final test drive of the vehicle.

**NOTES:**

