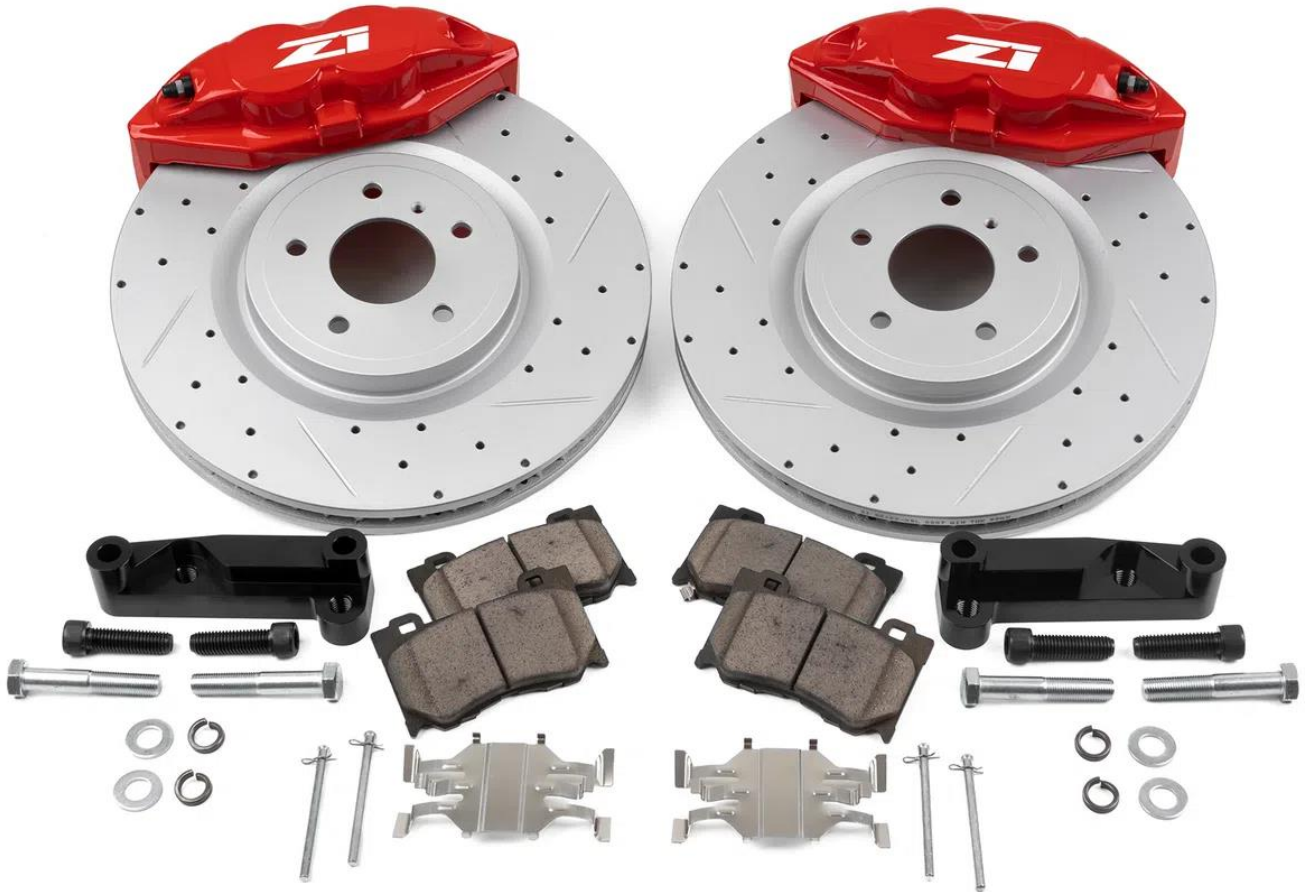


Z1 MOTORSPORTS 350Z/G35 STREET FORGED/AKEBONO FRONT BIG BRAKE KIT INSTALLATION MANUAL



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 Pad Set and Hardware
2	1	Brake Rotor - Driver
3	1	Brake Rotor - Passenger
4	1	Brake Caliper - Driver
5	1	Brake Caliper - Passenger
6	1	Front Brake Bracket - Driver
7	1	Front Brake Bracket - Passenger
8	4	M14-1.5 x 80mm Hex Cap Screw
9	4	M14 Flat Washer
10	4	9/16" Lock Washer
11	4	9/16"-12 x 2" Socket Cap Screw
12	2	Reusable Zip Tie
Optional Parts		
1	2	Short Banjo Bolts
2	4	Copper Washers (for banjo bolts)
3	1	Z1 Stainless Steel Brake Lines
4	1	Brake Fluid

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Brake Line Flare Nut Wrench
- 8mm Socket/Wrench
- 10mm Socket/Wrench
- 14mm Socket/Wrench
- 15mm Socket/Wrench
- 22mm Socket/Wrench
- 7/16" Allen/Hex Bit or 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 350Z/G35 Street Forged / Akebono Front 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). Apply the parking brake.
2. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
3. Raise the vehicle's hood
4. Remove front wheels
5. With the front Wheels removed, begin the disassembly of the stock brake system:
 - a. Disconnect the front brake lines from the brake caliper (use caution when handling brake fluid as it will damage any painted surface)
 - b. Unbolt the TWO 22mm bolts securing the brake caliper to the spindle. Save the washers for these bolts as they will be reused!
 - c. Remove the stock brake rotors from the hub assembly.

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 the installation

Installation:

6. Locate the two Z1 Motorsports 350Z Brake Caliper Adapter Brackets and the stock brake caliper bolts removed in Step #6B. You will need the 2 washers from the factory caliper bolts for the next step

Installation Note #2:

The Z1 Motorsports 350Z/G35 Brake Caliper Adapter Brackets can only be installed one way. There is a RIGHT SIDE and a LEFT SIDE. Make sure that machined standoffs 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 spindle (The factory mounting points for the OEM brake caliper).

7. After positioning the brake caliper adapter bracket, slide the factory washers over the black oxide Allen head bolt. Insert the bolt through the original mounting points for the stock brake caliper, but from the outboard side into the bracket (the bolts are a tight fit into the factory spindle). Evenly torque the two bolts in repeating series to ensure that the bracket is bolted on properly. Torque the bolts to 75ft-lbs.
8. Clean the hub surface with a wire brush before mounting the new rotor. Install the left and right side accordingly
9. 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 #11.

Installation Note #3:

If you opted to remove the factory front caliper dust shield, you may skip to step #13 to continue the installation.

10. Turn the steering wheel so that you are looking at the rear of the brake assembly (You should be looking at the dust shield and out tie rod end).

11. 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.
12. Locate the following pieces:
 - a. Akebono Front Brake Calipers
 - b. Retaining Clips
 - c. Retaining Pins
 - d. Akebono Brake Pads
13. Assemble the Front Brake Calipers before installing them onto the vehicle.

Installation Note #4:

It is recommended that some sort of brake disc quiet compound or grease is placed on the back side of the brake pads. This can be purchased from any local auto parts store. Some pad kits will include it.

14. Locate the (2) 22mm brake caliper adapter bolts and (2) thick lock washers.
15. Slide a lock washer on each bolt and then attach the assembled brake caliper to the brake caliper bracket that was installed in step # 7 using the 22mm bolts. Torque to 98ft-lbs.
16. Locate the Z1 Motorsports brake line adapters. Using the appropriate sides, attach the adapter to the caliper and brake line.
17. Double check all fasteners.
18. Bleed the brake system.
19. Re-install the front wheels and the previously removed brake line brackets. Factory lug-nut torque 80ftlbs. for aftermarket lug nuts or conical seat lug-nuts torque to 93ft-lbs.
20. Test brake pedal pressure and perform a final test drive of the vehicle. Re-check lug-nut torque after test drive.

END

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