

# Z1 MOTORSPORTS 350Z / G35 BRAKE MASTER CYLINDER BRACE INSTALLATION MANUAL



This Installation Manual is intended for the following models:

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

## 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 Brake Master Cylinder Brace, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

## **Parts Included:**

Item	Quantity	Description
1	2	Custom Barrel Nut, M8-1.25
2	1	Base, Machined
3	1	Arm, Casting
4	2	Flanged Hex Bolt, M6-1.0 x 20mm
5	2	Flanged Hex Bolt, M6-1.0 x 40mm
6	4	Flat Washer, M6
7	4	Lock Washer, M6
8	4	Hex Nut, M6-1.0
9	1	Jam Nut, M12-1.25
<b>Note:</b> All 350Z and (2002-2004) model G35's will be provided the following:		
10	1	Hex Bolt, M12-1.25 x 30mm
11	1	Hex Bolt, M12-1.25 x 60mm
<b>Note:</b> (2005-2007) Model G35's will be provided the following:		
12	1	Hex Bolt, M12-1.25 x 120mm

## **TOOLS REQUIRED:**

- Ratchet
- Ratchet Extension
- 12mm Deep Well Socket
- 19mm Socket
- (2) 10mm Wrench
- (2) 19mm Wrench
- Flat-head Screwdriver
- Red Loctite (or equivalent)
- Telescoping Magnet (optional)

## **SAFETY REQUIREMENTS:**

- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- 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.

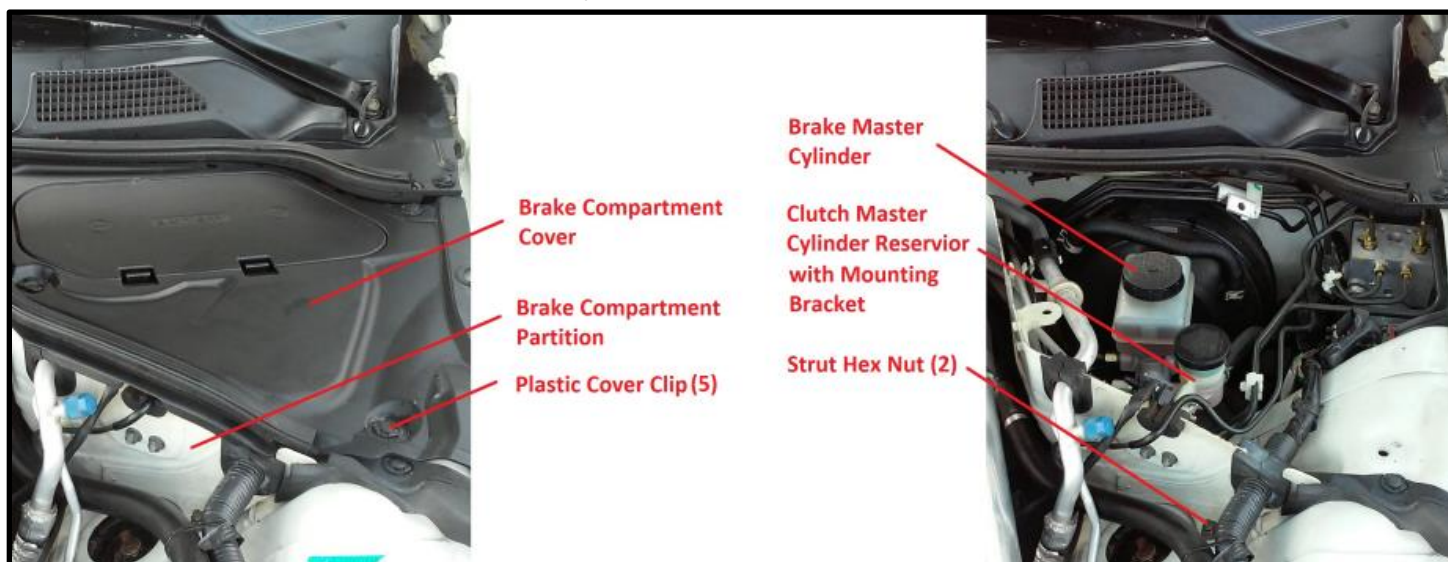
## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Motorsports 350Z / G35 Brake Master Cylinder Brace and verify that ALL necessary hardware is present.

## **PROCEDURE:**

1. Assure the car's ignition is in the OFF position and the NEGATIVE (-) battery terminal is disconnected.
2. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.

3. Unlatch and raise vehicle's hood. Apply hood prop. The brake compartment should look similar to this:



4. Using a flat-head screwdriver, remove (5) plastic clips which attaches the plastic cover to brake compartment. Remove plastic brake compartment cover (if applicable).

Note: If your vehicle is equipped with an automatic transmission, please proceed to step #7.

5. Remove (2) M10 bolt, lock washer, flat washer, and hex nut which attaches clutch master cylinder reservoir to mounting bracket. Set clutch master cylinder reservoir to the side.

Note: Assure that reservoir cap is secured to reservoir. Carefully place loose reservoir in a position so that fluid does not leak.

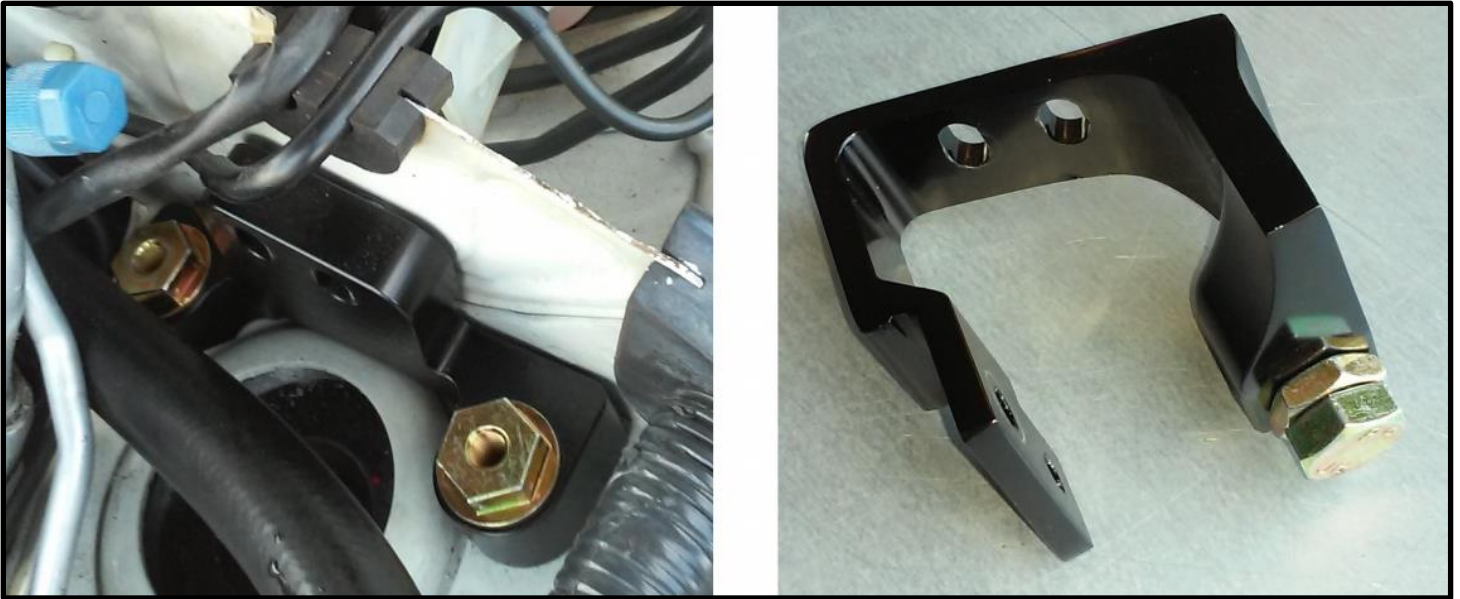
**CLUTCH FLUID WARNING!** Please be aware that clutch fluid will damage any painted surfaces if left in contact for an extended period of time. Use extreme caution when handling parts or painted body panels after coming into contact with clutch fluid. Clean up spills or leaks as quickly as possible to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

6. Remove (2) M10 hex nut, lock washer, and flat washer which attaches clutch master cylinder reservoir mounting bracket to brake compartment partition. Remove mounting bracket.
7. Remove (2) M12 hex nuts closest to brake compartment partition which attach driver-side strut to vehicle.
8. Locate machined master cylinder base. Position brace over exposed strut studs with mating surface facing toward brake compartment partition.
9. Place (2) master cylinder brace barrel nuts through machined master cylinder brace and thread onto strut studs. Torque to no greater than 26ft-lbs, using a 19mm socket.

Note: Please be cautious not to damage other automotive systems (air conditioning, electrical) located near brake master cylinder brace.

10. Locate master cylinder arm casting. Fully insert M12-1.25 bolt with jam nut into casting threads.

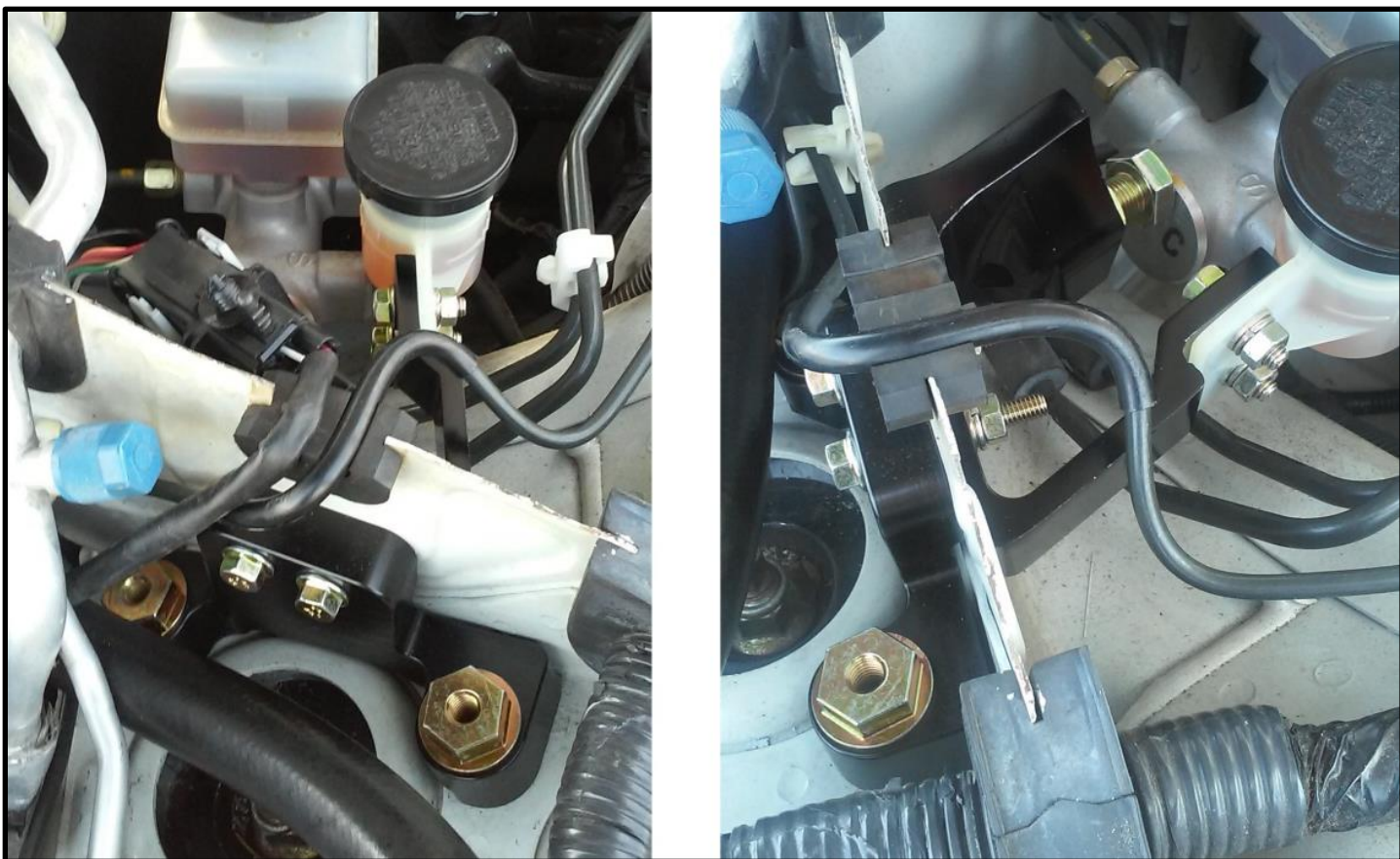
**Note:** Nissan utilized a total of 7 different brake master cylinders for the 350Z / G35 platform between 2002 and 2008; varying in length. For this reason, Z1 Motorsports has provided in your master cylinder brace kit as many as 2 different length M12-1.25 bolts, in accommodation to the variety of brake master cylinder lengths. Please select the M12-1.25 bolt which fits best with your application and discard the others. Assure there is a minimum of 12mm of thread engagement inside the arm casting.



11. Position arm casting inside the brake compartment, with M12-1.25 bolt facing towards the brake master cylinder. Assure that clutch master cylinder reservoir mounting holes are to the right of brake master cylinder.
12. Insert (2) M6-1.0 x 40mm hex bolts through machined base, partition, and arm casting. Place (1) flat-washer and (1) lock washer over each hex bolt. Thread (1) M6-1.0 hex nut onto each bolt. Tighten.  
  
Note: As you tighten M6-1.0 bolts, the brake compartment partition will flex slightly toward the machined base. This is to be expected.
13. Unthread M12-1.25 bolt from arm casting until head is flush against brake master cylinder. Using a 19mm wrench, turn head of bolt clockwise 90°, applying a slight load to the brake master cylinder brace.
14. Thread M12-1.25 jam nut against arm casting. Tighten with 19mm wrench.  
  
Note: Apply a small amount of Red Loctite to M12-1.25 bolt near arm casting before threading M12-1.25 jam nut.  
  
Note: Place a second 19mm wrench onto head of M12-1.25 bolt so that bolt does not loosen against brake master cylinder while tightening jam nut.
15. Position clutch master cylinder reservoir to mounting holes of casting arm.
16. Insert (2) M6-1.0 x 20mm hex bolts through casting arm and reservoir. Place (1) flat washer and (1) lock washer over each hex bolt. Thread (1) M6-1.0 hex nut onto each bolt. Tighten.



17. Completed brake master cylinder brace should be assembled as the following:



18. Re-install plastic brake compartment cover. Insert plastic clips.

19. Lower and latch hood of vehicle.

20. Perform a final test drive of vehicle.

**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

