

# Z1 SOLID DIFFERENTIAL BUSHING SET INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2003-2008	Nissan 350Z
2009-2020	Nissan 370Z
2003-2007	Infiniti G35
2007-2015	Infiniti G37
2014-2016	Infiniti Q60

## 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 Solid Differential Bushing Set, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

## **Parts Included:**

Item	Quantity	Description
1	1	Rear Solid Differential Bushing
2	2	Front Upper Solid Differential Bushing
3	2	Front Lower Solid Differential Bushing

## **TOOLS REQUIRED:**

- Ratchet
- Assorted Metric Sockets
- Hammer
- Rubber Mallet
- 34mm Deep Well Socket
- Z1 OEM Differential Bushing Removal Tool
- Z1 Solid Differential Bushing Install Tool
- Torque Wrench
- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands

## **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 Solid Differential Bushing Set and verify that ALL necessary hardware is present. Z1 recommends freezing all differential bushings before installation. This will allow the material to contract and ease the installation process.

## **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. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
4. Please refer to Nissan 350Z Factory Service Manual (FSM) for differential assembly removal procedure.

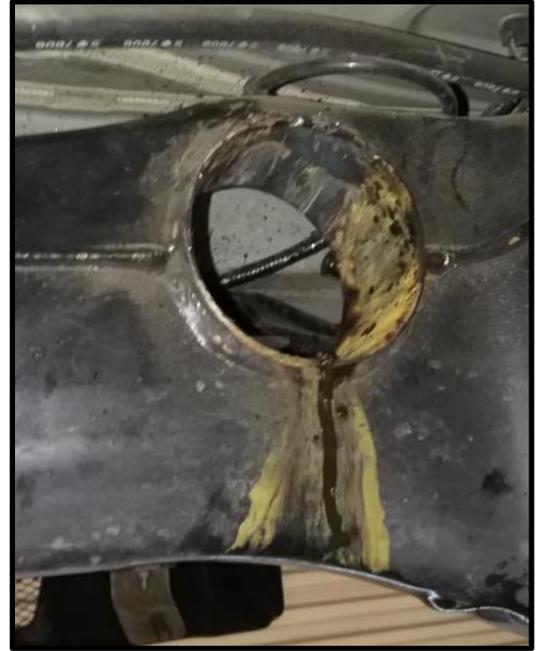
Subframe assembly without differential is as shown:



- Remove factory rear differential bushing. Z1 recommends use of the Z1 OEM Differential Bushing Removal Tool to remove the OEM bushing. If you have purchased a Z1 OEM Differential Bushing Removal Tool, please refer to the instructions provided.

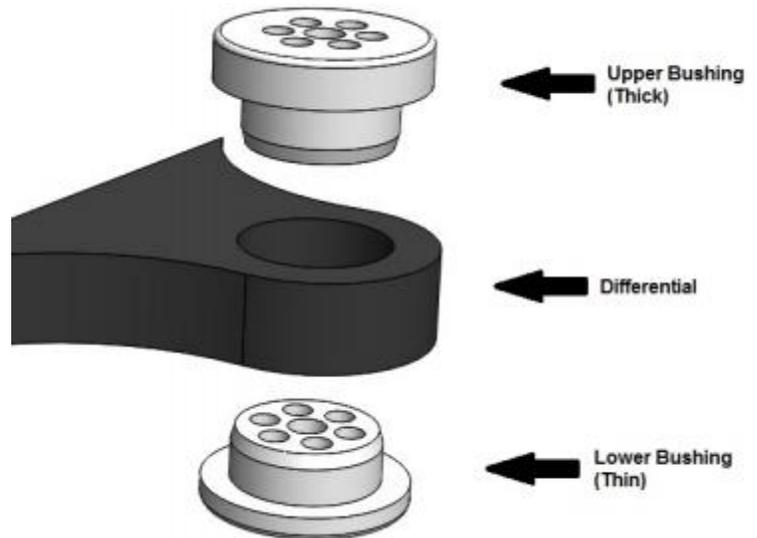
**Note:** Rear bushing is hydraulic-filled and will leak oil once broken.

- Clean bushing area of subframe. Remove sharp edges that may be present
- Locate Z1 Solid Rear Differential Bushing.
- Install solid rear differential bushing. Place bushing at front side of subframe and orient such that tapered end is facing the rear of vehicle. Use of the Z1 Differential Bushing Install Tool is recommended for installation of solid differential bushing. If you have purchased a differential bushing installation tool, please refer to the instructions provided.



**Note:** Do NOT use a hammer to tap solid bushing into position.

- Using a 34mm socket (or equivalent) and hammer, tap factory front differential bushings out of the differential.
- Clean bushing area of differential. Remove sharp edges that may be present.
- Using a rubber mallet, tap Z1 Front differential Bushings into differential (as shown).
- Please refer to Nissan 350Z FSM for differential assembly installation procedure.
- Carefully lower vehicle.
- 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