

# Z1 Z34/RZ34 SOLID STEERING RACK BUSHINGS INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2009-2020	Nissan 370Z
2008-2015	Infiniti G37
2014+	Infiniti Q50
2014+	Infiniti Q60
2023+	Nissan Z

## 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 Z34/RZ34 Solid Steering Rack Bushings, consult with a Professional Mechanic, or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	4	Solid Steering Rack Bushing
2	1	M12 x 1.75 Hex Nut
3	2	M12 Washer
4	1	M12 x 1.75 Hex Head Screw, 110mm

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Wrenches
- Assorted Metric Sockets
- Torque Wrench
- Channel Lock Pliers
- Cleaning Brushes

## **SAFETY REQUIREMENTS:**

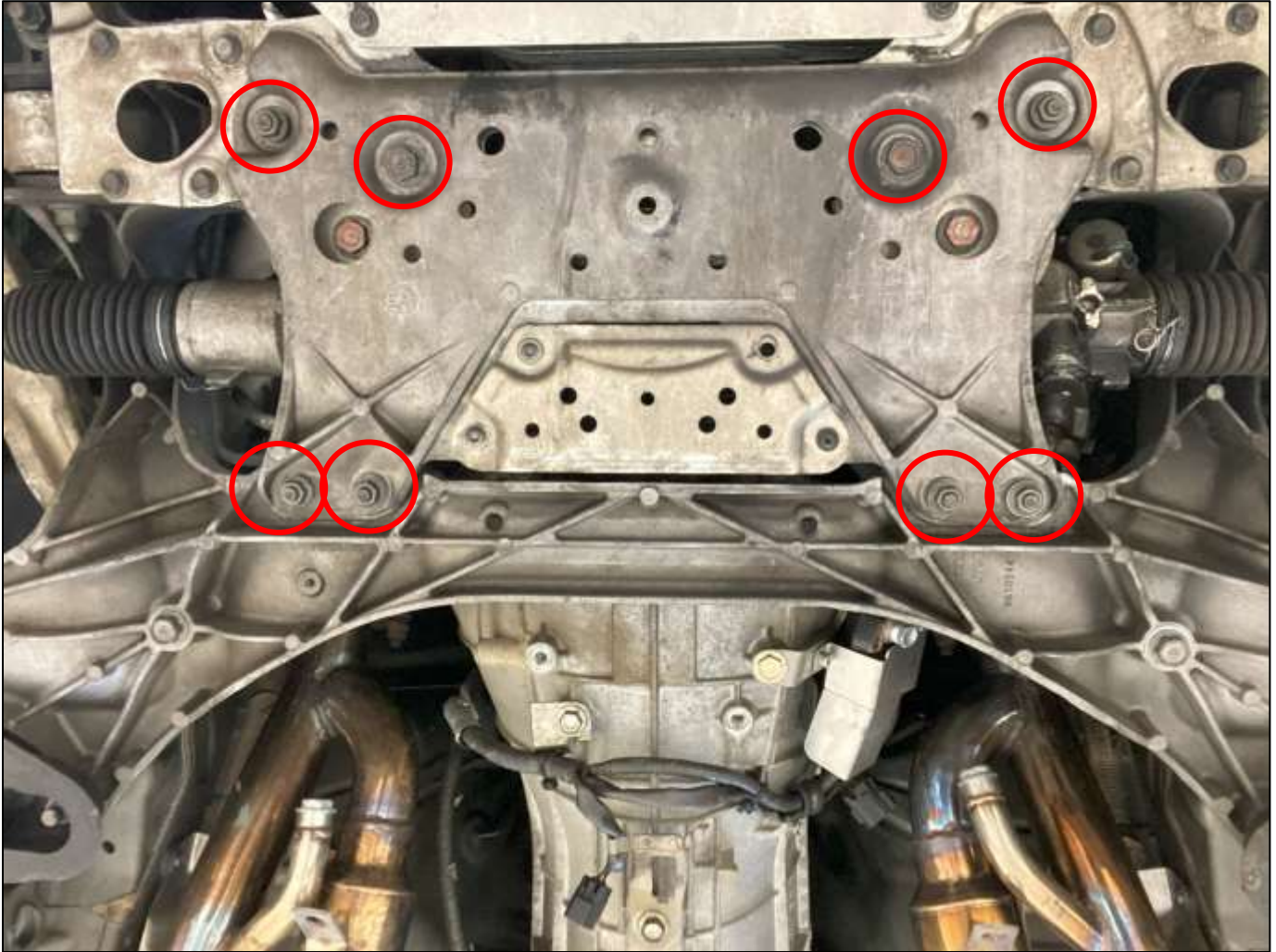
- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Always use properly rated jack stands when working under your vehicle.
- 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 370Z/G37 Solid Steering Rack Bushings and verify that ALL necessary hardware is present.

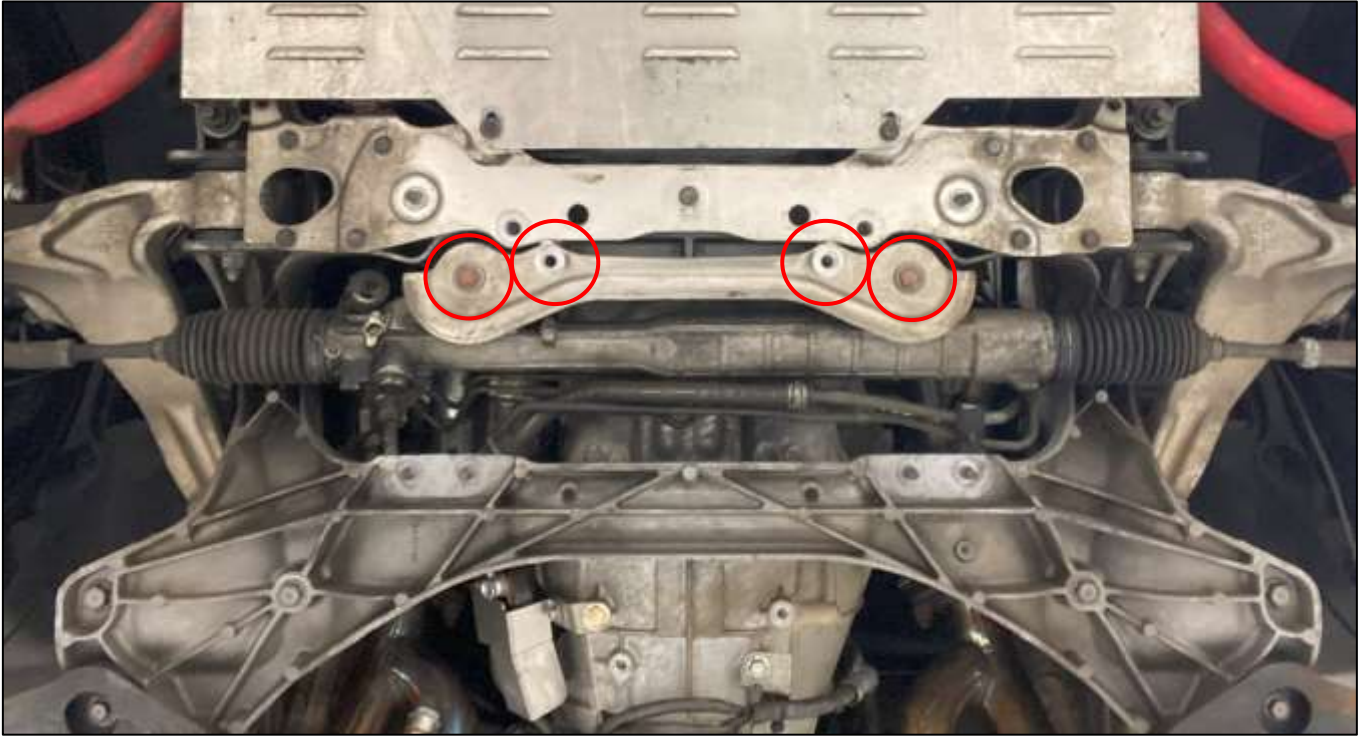
## **PROCEDURE:**

1. Place your Solid Steering Rack Bushings in a freezer. Allowing them to freeze will help ease installation in the later steps.
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. Remove the Front Suspension Stay covering the Steering Rack. It is held on by (6) six nuts and (2) two bolts. Retain this hardware. *Figure 1.*



*Figure 1*

5. Remove the (4) four bolts holding the Steering Rack Stay to the Steering Rack. The (2) two outside bolts are held on by a nut on the top of the Steering Rack. Retain this hardware, as it will be reused. *Figure 2.*



*Figure 2*

6. The Rack will now be able to fall freely but will be supported by the Tie Rods.
7. Using Channel Lock Pliers, grip the outside lip of the bottom OE Rack Bushings, and twist back and forth. This will cause the rubber inside of the rack to rip and allow you to remove the bushings. Prying underneath the bushing with a pry bar or screwdriver can help push the bushing out as well. *Figure 3.*



*Figure 3*

8. Find a suitable punch or socket and insert it through the bottom of the steering rack and hammer out the top OE Rack Bushings. You can also use pliers to remove the bushings as well. *Figure 4.*



*Figure 4*

9. Thoroughly clean the inside mating surface for the new Rack Bushings to ensure proper fitment. Leftover rubber and dirt will most likely be caked to the surface. We used a combination of files and flap wheels to remove all of the debris. *Figure 5.*



*Figure 5*

10. Remove (2) two bushings from the freezer. By hand, insert them into the top and bottom of one side of the Steering Rack, making sure they are going in straight and are not crooked. *Figure 6.*



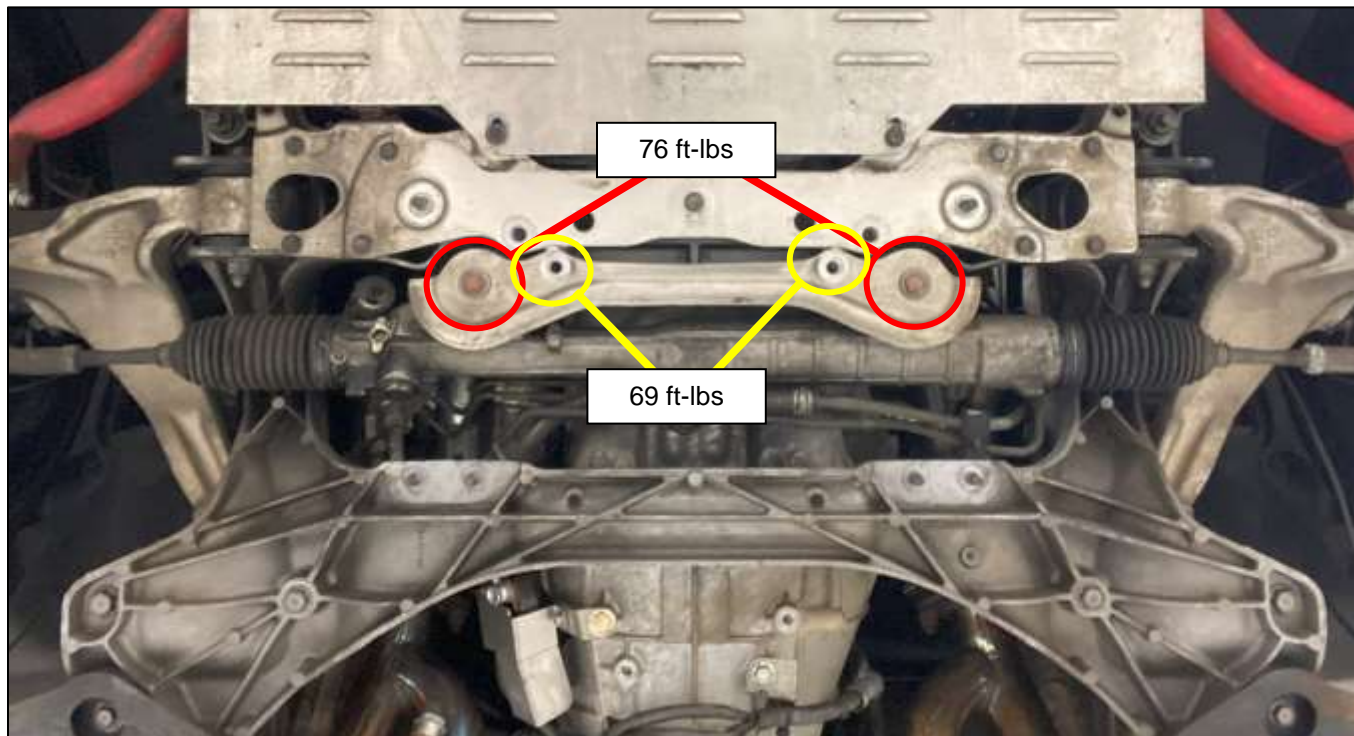
*Figure 6*

11. Locate the M12 Hardware. Place (1) one M12 Washer on the M12 Bolt, then place the bolt through the bushings, and secure with the nut and washer on the other side. Tighten the bolt and nut with a ratchet or impact gun SLOWLY to bring the Bushings into the rack. Ensure that they are going in straight when tightening. *Figure 7.*



*Figure 7*

12. Repeat *Steps 10-11* for the other side of the Steering Rack.
13. Position the Steering Rack back into position, and reinstall the Steering Rack Stay and Hardware removed in *Step 4*. Torque the (2) two outer bolts to **76 ft-lbs**, and the (2) two middle bolts to **69 ft-lbs**. Make sure there is no contact between the Steering Rack Stay and the Steering Rack. *Figure 8*.



*Figure 8*

14. Reinstall the Front Suspension Stay removed in *Step 4*. Torque hardware to **30 ft-lbs**.
15. Safely lower vehicle from jack stands.
16. Have your vehicle aligned.

**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