

# Z1 350Z / G35 VQ35DE PLENUM SPACER INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2003-2006	Nissan 350Z
2003-2007	Infiniti G35 Coupe
2003-2006	Infiniti G35 Sedan
2003-2008	Infiniti FX35

## 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 VQ35DE Plenum Spacer, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Z1 Plenum Spacer
2	1	Plenum Gasket
3	3	M6 x 70mm Bolt
4	8	M6 x 40mm Bolt
5	6	M6 Washer w/ Bonded Seal
6	8	M6 Flat Washer
7	12	M12 Flat Washer (for strut bar)

## **TOOLS REQUIRED:**

- Ratchet
- 10mm Deep Well Socket
- 14mm Deep Well Socket
- Ratchet Extensions
- Inch-Lb Torque Wrench

## **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.

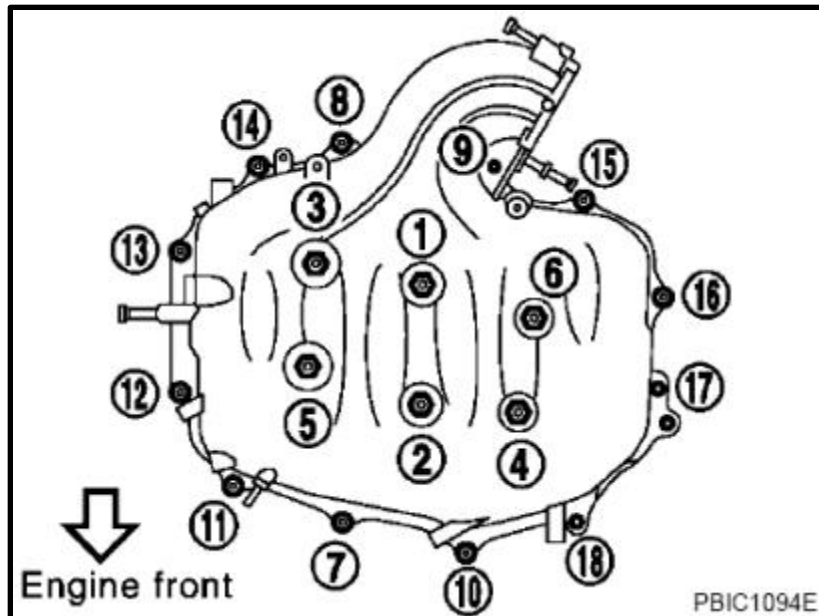
## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Motorsports VQ35DE Plenum Spacer Kit 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.
4. Remove nuts and bolts that mount the strut tower brace to the vehicle. Remove strut tower brace.
5. Remove nuts and bolts that mount engine cover. Remove engine cover.

6. Remove all bolts from plenum, as shown in diagram below:



Note: Carefully lift plenum upwards. It is not necessary to remove it completely. You may need assistance in holding the plenum while inserting the plenum spacer.

7. Position the Z1 Motorsports plenum spacer on top of the lower plenum, making sure that the OEM gasket is properly positioned below the spacer.

Note: Be sure that the thicker side of the plenum spacer faces the front of the vehicle.

8. Place the new plenum gasket on top of the Z1 Plenum spacer, making sure that it is properly aligned. Lower the plenum back into position. Assure that gaskets remain aligned and do not slip out of position.

9. Hand thread all bolts and ensure that they do not cross thread:

Replace bolts #1, 3, & 6 with the supplied **M6 x 70mm bolts** with **M6 washers w/ bonded seals**.

Reuse factory bolts from holes #1, 3, & 6 for bolt holes #2, 5, & 4 using supplied **M6 washers w/ bonded seals**.

For bolts #7, 10, 11, 13, 16, & 18 please use the supplied **M6 x 40mm bolts**.

For bolts #8, 14, & 15 reuse OEM M6 x 25mm bolts.

For bolt hole #9, reuse OEM bolt.

Studs #12 & 17 can be removed or left installed. They will no longer be used.

**Tighten all bolts to 44-61 inch-lbs.**

10. Replace engine cover using OEM fasteners.

11. Reposition strut bar to check for clearance. Add supplied **M12 flat washers** between strut bar and chassis to gain required clearance. Reinstall OEM strut tower brace fasteners. Hand thread all bolts and ensure that they do not cross thread.

**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