

Z1 MOTORSPORTS VQ35DE 75MM THROTTLE BODY UPGRADE KIT 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 75mm Throttle Body Upgrade Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

Parts Included:

Item	Quantity	Description
1	1	Wiring Harness Adapter
2	1	Throttle Body Adapter
3	1	Throttle Body Side Gasket (Larger Gasket)
4	1	Intake Manifold Side Gasket (Smaller Gasket)
5	4	Socket Head Bolt, M6 x 1.0, 20mm
6	4	Socket Head Bolt, M6 x 1.0, 55mm
7	1	Z1 75mm Throttle Body

TOOLS REQUIRED:

- Ratchet
- Ratchet Accessories
- Screwdriver
- 5mm Allen Bit

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 75mm Throttle Body Upgrade Kit and verify that ALL necessary hardware is present.

DO NOT TOUCH THE BUTTERFLY VALVE OF THE NEW THROTTLE BODY. TOUCHING OR MOVING THE BUTTERFLY VALVE CAN AFFECT THE CALIBRATION OF THE THROTTLE BODY, MAKING IT INOPERABLE.

PROCEDURE:

1. Ensure 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. Raise and support the hood of the vehicle.
4. Remove the Air Intake Piping from the vehicle. This will slightly vary depending on your vehicle.
5. Remove the OE Throttle Body from the Intake Manifold by disconnecting the Wiring Harness from the Throttle Body and removing the (4) four socket head bolts that secure it. *Figure 1.*

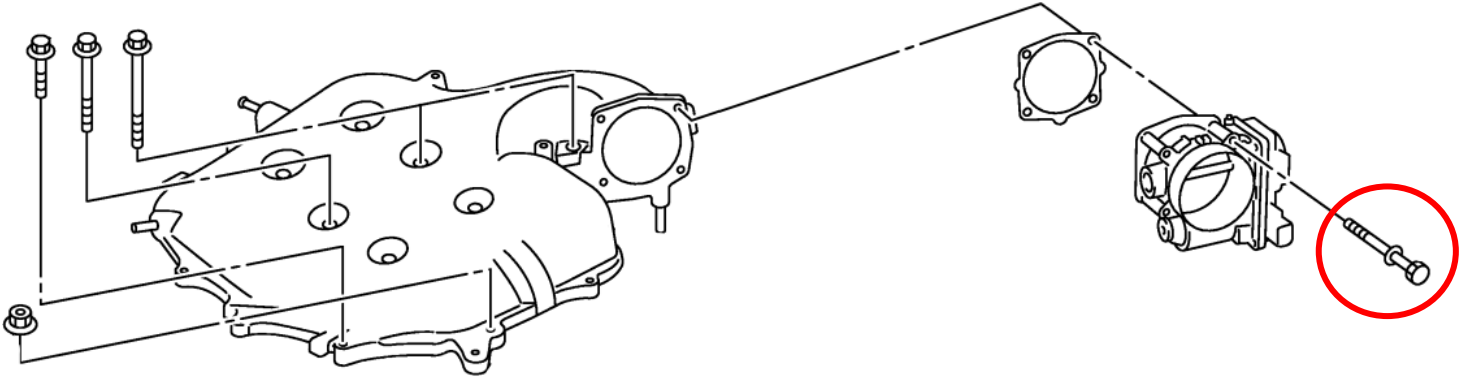


Figure 1

DO NOT TOUCH THE BUTTERFLY VALVE OF THE NEW THROTTLE BODY. TOUCHING OR MOVING THE BUTTERFLY VALVE CAN AFFECT THE CALIBRATION OF THE THROTTLE BODY, MAKING IT INOPERABLE.

6. Locate the Throttle Body Adapter, Intake Manifold Side Gasket, and (4) four M6 x 1.0 Socket Head Bolts, 20mm. Install the Throttle Body Adapter with the Intake Manifold Side Gasket to the Intake Manifold with the M6 Socket Head Bolts. Torque the Bolts to **7 ft-lbs**. *Figure 2.*

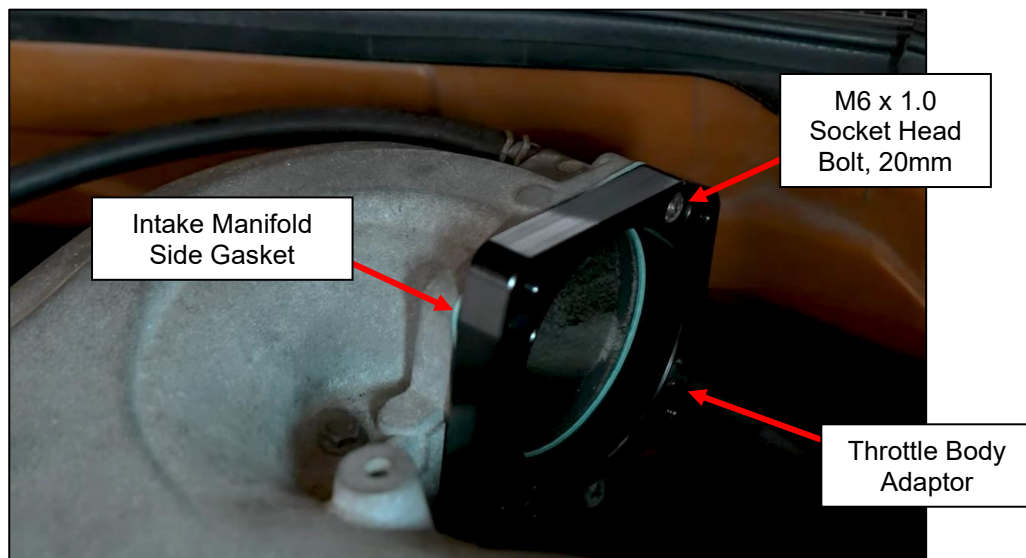


Figure 2

7. Locate the 75mm Throttle Body, Throttle Body Side Gasket and (4) four M6 x 1.0 Socket Head Bolts, 55mm. Install the new Throttle Body and Throttle Body Side Gasket to the Throttle Body Adapter. Secure with the (4) four M6 Bolts. Torque the M6 Bolts to **7 ft-lbs**. *Figure 3*.

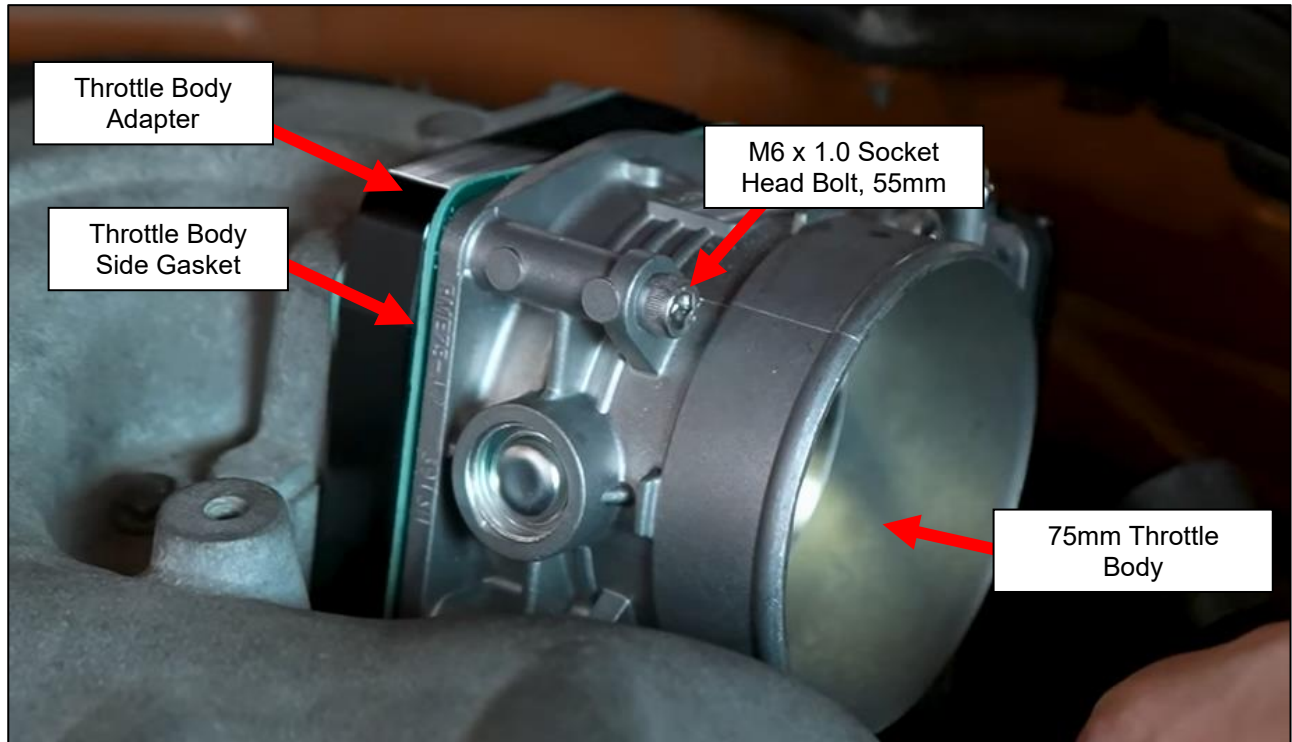


Figure 3

8. Locate the Wiring Harness Adaptor. Plug the **GREEN** Connector of the Wiring Harness Adaptor into the Stock Throttle Body Wiring Harness. *Figure 4*.

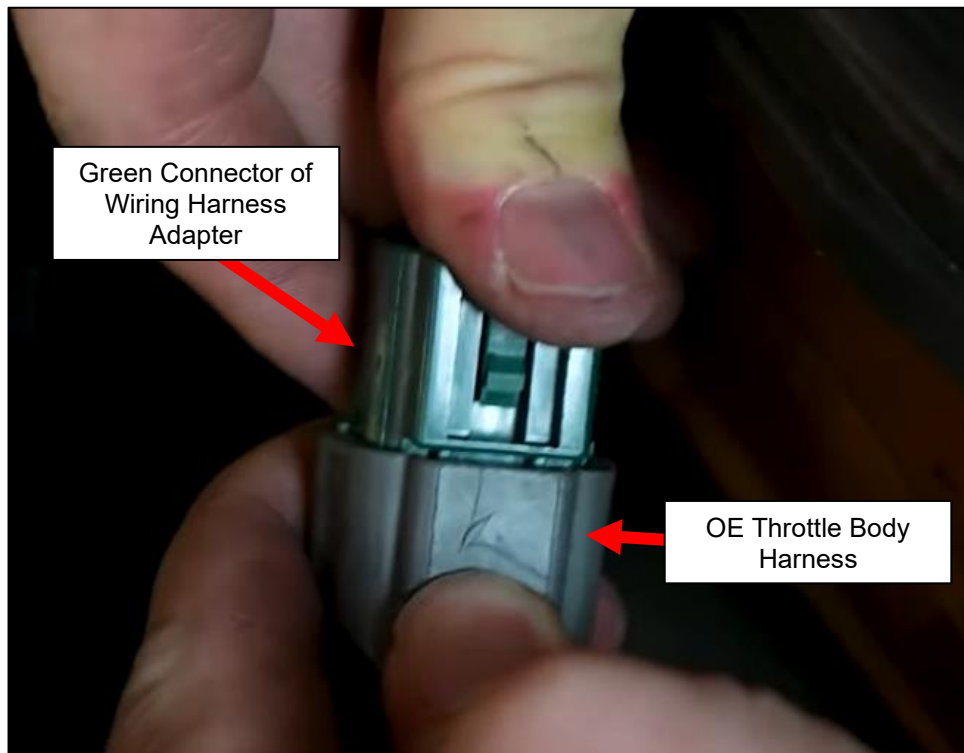


Figure 4

9. Plug the **BLACK** connector of the Wiring Harness Adapter to the 75mm Throttle Body. *Figure 5.*



Figure 5

10. Reinstall the Intake System. Make sure all clamps are tight, and that the MAF Sensor is plugged back in.
11. Perform the Accelerator Pedal Released Position Learning, Throttle Valve Closed Position Learning, and Idle Air Volume Learning procedures by following the steps provided in your [Factory Service Manual \(FSM\) starting on page 91](#). This can be found in the “EC” section of your vehicles FSM, under the “Basic Service Procedures” section. Please note this process involves doing a timed “Pedal Dance” inside of the car and may take a couple of tries to get correct.
12. Perform a final test drive of the vehicle.

END

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