

# Z1 VR30 HOTBOX PERFORMANCE TUNER INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2016+	Infiniti Q50 (3.0L)
2017+	Infiniti Q60 (3.0L)
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 VR30 HotBox Performance Tuner, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Assembled HotBox Tuner
2	1	Wiring Harness
3	1	Mounting Bracket
4	3	M4 x 6mm Pan Head Screw

## **TOOLS REQUIRED:**

- Ratchet
- Ratchet Extension(s)
- 10mm Socket/Wrench
- #2 Phillips Head Screwdriver

## **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.

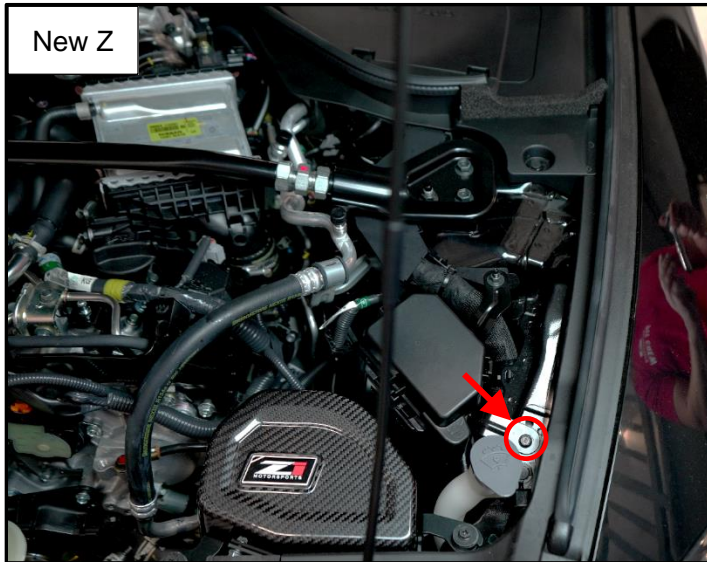
## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Motorsports VR30 HotBox Performance Tuner and verify that ALL necessary hardware is present.

## **PROCEDURE:**

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Unlatch and raise vehicle's hood.

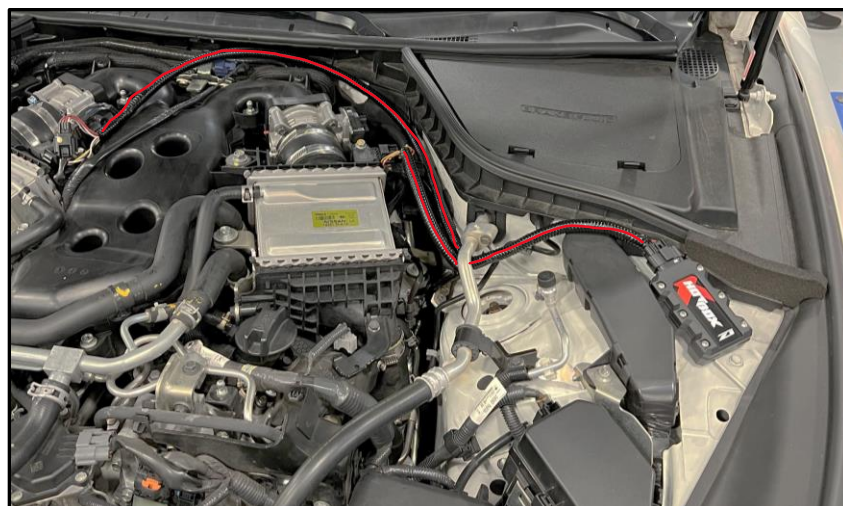
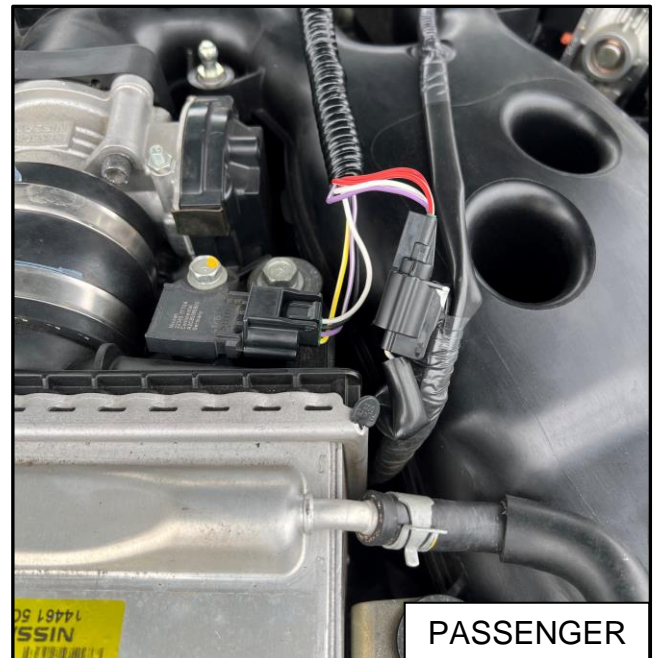
- Remove (1) bolt on the driver side of the engine bay connecting the fender to the chassis for Q50 / Q60 or securing the fuse box to the chassis for new Z (circled below).



- Locate Z1 assembled HotBox tuner and mounting bracket. Remove the (3) M4 screws on bottom side of HotBox tuner.
- Attach mounting bracket to bottom of HotBox tuner with (3) M4 screws (as shown below). It is recommended to leave these screws a little loose, in order to clock the HotBox how you'd like once positioned in the engine bay.
- Secure HotBox bracket onto mounting hole with the bolt the was removed in step # 3 (as shown below).
- The mounting bracket's holes are slotted to allow you to rotate the HotBox slightly for the best fitment for your vehicle. Position the HotBox where you'd like and using your index finger and thumb hold them in that position while you unscrew the bolt securing the bracket to the vehicle (as shown below).



8. While still holding the HotBox and bracket in the same position, using a phillips head screwdriver, tighten the (3) screws securing the bracket to the HotBox enclosure.
9. Reattach the mounting bracket to vehicle.
10. Locate Z1 HotBox wiring harness. Attach the main 12-pin connector to the HoxBox connector.
11. If you didn't follow the safety requirements noted above, please disconnect your battery at this time. If the ECU isn't fully asleep when you disconnect the TMAP sensors, it could throw a code. Best way to ensure that the ECU is asleep is to disconnect the battery. With the battery disconnected, disconnect the electrical connectors on both MAP sensors on the back right of the intercoolers.
12. Route the rest of the harness towards the engine. Then route the shorter end towards the rear of the driver side intercooler and the longer end towards the rear of the passenger side intercooler. The images below are of a Q50 but the routing for a Q60 or a new Z is the same. For new Z's, you can choose to route the wiring harness under the strut bar or around the back of it.
13. Connect the male ends of the Z1 harness to the OEM female ends that used to connect to the MAP sensors (as shown below).
14. Connect the female ends of the Z1 harness to the OEM map sensors just behind the intercoolers (as shown below).





**Note:** The below circled male expansion plug is not used and can be secured with a zip tie.



15. Ensure all electrical connectors are secure and the mounting bolt on the bracket is tight.
16. Inspect vehicle for loose tools/items.
17. Lower hood of vehicle.
18. Perform a final test drive of the 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