

Z1 2023+ Z BOV Conversion Kit INSTALLATION MANUAL



This Installation Manual is intended for the following models:

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 2023+ Z BOV Conversion Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

PARTS INCLUDED:

Item	Quantity	Description
OEM Diverter Valve Conversion Kit		
1	2	Diverter Valve Billet Adapter
2	2	OE Diverter Valve Delete/Relocation Plate
3	1	BOV Adapter Silicone - Driver
4	1	BOV Adapter Silicone - Passenger
5	2	Clamp
6	2	Throttle Body Coupler
7	6	M6 x 12mm Socket Head Cap Screw
Pneumatic BOV Kit		
1	2	Pneumatic BOV (HKS or Turbosmart)
2	2	Diverter Valve Delete/Relocation Plate
3	2	Diverter Valve Simulator
4	1	BOV Adapter Silicone - Driver
5	1	BOV Adapter Silicone - Passenger
6	2	Clamp
7	2	Throttle Body Coupler
8	6	Zip Ties
9	1	Equal Tee Fitting 3/16"
10	1	Reduction Tee 3/8" -> 1/4"
11	2	Clamp
12	60"	5mm Vacuum Hose
13	12"	8mm Vacuum Hose

TOOLS REQUIRED:

- Ratchet
- 7mm Socket/Wrench
- 8mm Socket/Wrench
- 12mm Socket/Wrench
- T30 Torx Bit
- Needle Nose Pliers
- Snips/Scissors

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 2023+ Z BOV Conversion Kit 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. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack and jack stands.
3. Unlatch and raise vehicle's hood. Apply hood prop.
4. Remove Strut Tower Brace from vehicle and set aside.
5. Remove the Engine Cover by lightly pulling up at each corner.
6. Remove the (8) eight bolts securing the Intercoolers to the Intake Manifold.
7. Disconnect the electrical connectors at the Intercoolers.
8. Remove the (2) two clamps securing the Intercooler Outlet to Throttle Body Coupler.
9. Remove the (2) two clamps securing the Turbo Outlet to the Intercooler Inlet Coupler.
10. Remove the Intercooler to Throttle Body Coupler.
11. Remove the Turbo to Intercooler Coupler.

12. OEM Diverter Valve Customers:

- a. Remove the (4) four screws securing the Passenger Side Wastegate Actuator. This is necessary to allow movement and removal of the OE Diverter Valve in the upcoming steps. *Figure 1.*

NOTE: *Figure 1* below shows an engine removed from the vehicle. The Wastegate Actuator can be removed with the engine still in the vehicle.



Figure 1

- b. Remove the (3) three T30 Torx screws securing each OE Diverter Valve to the OE turbos. Then remove the Diverter Valves from the Turbos. The Diverter Valve is shown below on a turbo off the vehicle.
Figure 2.

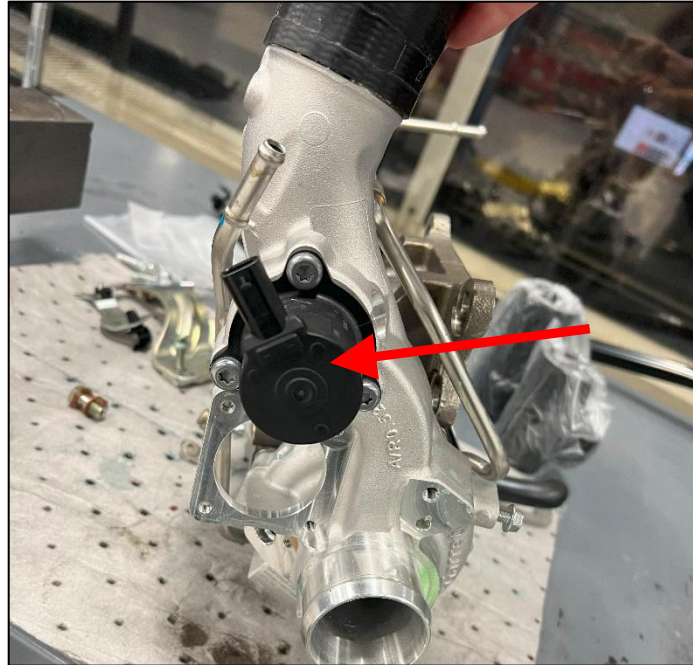


Figure 2

- c. Using the (3) OE Torx bolts, install the Z1 Diverter Valve Delete/Relocation Plate into the opening on the OE turbos.
- d. Reinstall the (4) four screws and the Passenger Side Wastegate Actuator.
13. **Pneumatic BOV Customers:** Plug in the OE Diverter Valve Wiring Harnesses into the Z1 Diverter Valve Simulators (small metal box with Z1 logo).
14. Locate the Silicone Couplers and BOV Hose set.
15. Re-using your OEM clamps, install the Z1 Silicone Throttle Body to Intercooler Outlet Couplers.

16. Re-using your OEM clamps, install the Z1 BOV couplers. Refer to figures 1 and 2 for proper orientation. Depending on if you have stock or Z1 upgrade turbos you will receive different BOV silicone couplers, each coupler should have a small label indicating its part number. Stock turbo customers will receive **22057-B** (passenger) and **22057-C** (driver). Z1 VRX70 customers will receive **22057-D** (passenger) and **22057-C** (driver). *Figure 3.*

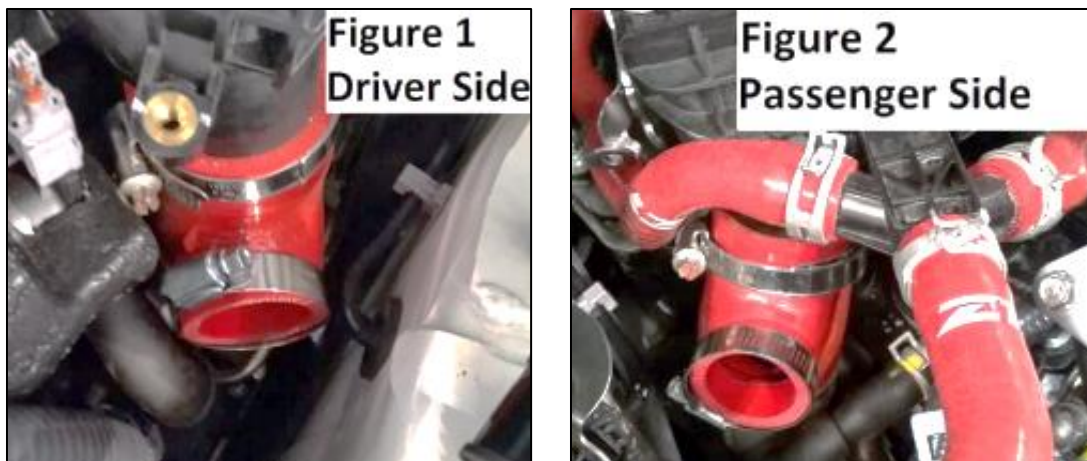


Figure 3

17. Once the Z1 BOV couplers are in the correct position, tighten clamps.
18. Place a supplied clamp onto the Silicone BOV Adapter.
19. Install BOV's into the Silicone Couplers following the instructions below for your BOV choice. Refer to *Figure 4* for proper orientation for Pneumatic BOV's.

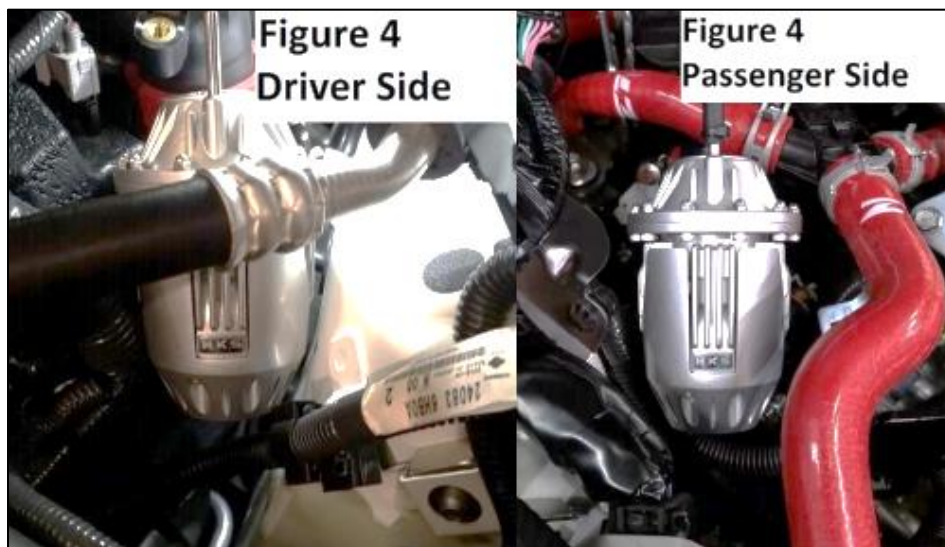
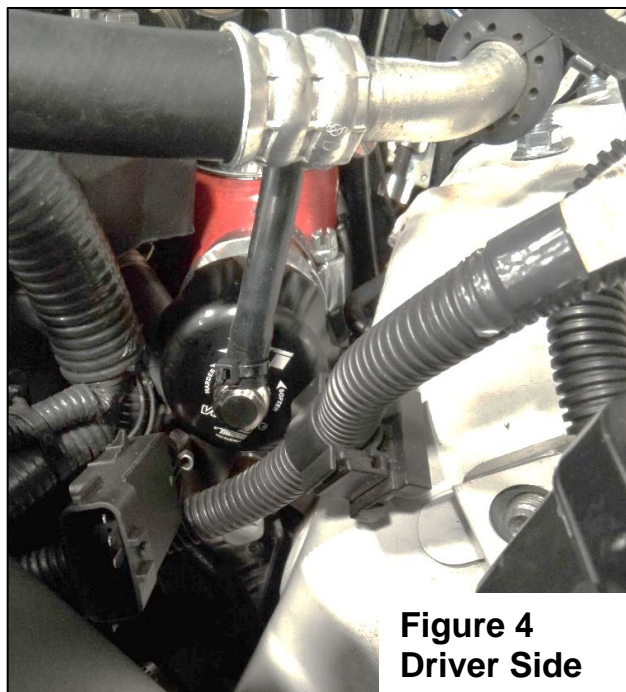


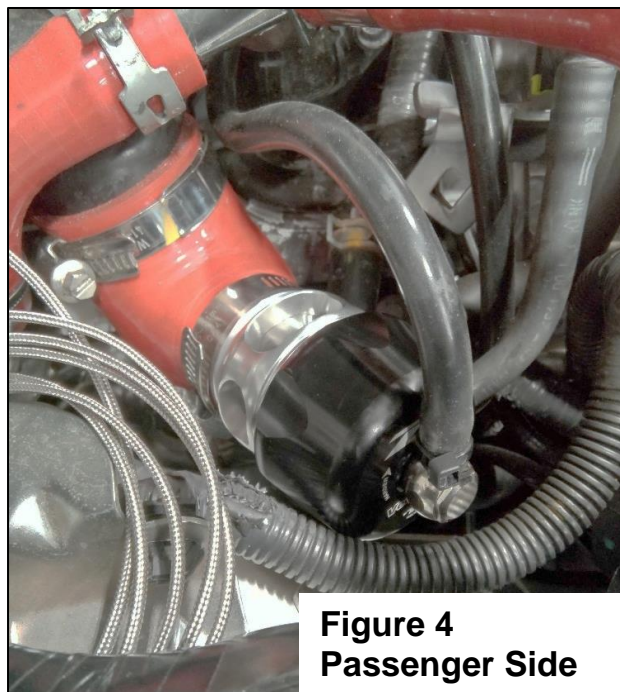
Figure 4

Turbosmart Customers: Install the Turbosmart BOV's directly into the Silicone Couplers (as shown below).

HKS Customers: Install the HKS BOV's into the Silicone Couplers as shown below. *Figure 5.*



**Figure 4
Driver Side**



**Figure 4
Passenger Side**

Figure 5

OE Diverter Valve to BOV Conversion Customers: Install the Z1 Diverter Valve Billet Adapters into the Silicone Couplers. Then install the OE Diverter Valves that were removed in *Step 12* into the Billet Adapters with (3) three provided M6 bolts on each side.

For all BOV's: Be sure there is adequate space around the BOV so that it is not rubbing the body or pinching a wiring harness. You may need to loosen the clamps and clock the silicone.

OE Diverter Valve to BOV Conversion Customers: If unplugged before, plug the OE Diverter Valve Wiring Harness back into the Diverter Valve.

Steps 20-28 are only for Pneumatic BOV Customers. Customers who purchased the Diverter Valve to BOV Conversion Kit can skip to Step 28.

20. Once BOV's are installed and positioned correctly, tighten all clamps.

21. Locate the supplied T-fittings and Silicone Vacuum Hose.

22. Locate OEM vacuum hose at the back of the Intake Manifold. Remove the OEM vacuum hose. *Figure 6.*



Figure 6

23. Place an 8" section of Z1 8mm Silicone Vacuum Hose on the hardline, secure with a clamp or zip tie.

24. Place an 8" section of Z1 8mm Silicone Vacuum Hose on the Intake Manifold Vacuum Nipple, secure with a clamp or zip tie.

25. Connect each section of silicone hose using supplied reduction T-fitting. Secure with zip ties. *Figure 7.*



Figure 7

26. Place a 26" section of Z1 5mm Silicone Vacuum Hose onto the open T and route under the Intake Manifold towards the front of vehicle. *Figure 8.*



Figure 8

27. Place the supplied Equal T-fitting into the 5mm Silicone Hose.
28. Run the 5mm Vacuum Hose from the T-fitting to each BOV. Secure the hose using supplied zip ties.
29. Reinstall each Intercooler, and ensure all electrical connectors are back in place.
30. Reinstall the engine cover.

NOTE: Trimming of the Engine Cover may be needed to clear the BOV.

31. Reinstall the Strut Tower Brace.
32. Perform a final check of the installation process and make sure all clamps are tight and there is no contact between the BOV and the body or wiring harness.
33. 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