

Z1 2023+ Z BOV CONVERSION KIT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2023+	Nissan Z
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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.

Since there are a few different variations of BOVs and turbos, there are small differences in what parts you will receive and the procedure for installing everything. In some steps below there will be an underlined prefix that will mention if that step only applies to certain customers. For example, "Stock turbo customers:" is a step only customers with stock turbos need to follow, "Pneumatic BOV customers:" is only for those who purchased pneumatic BOVs like the Turbosmart or HKS option.

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 & jack stands.
3. Unlatch and raise vehicle's hood. Apply hood prop.
4. Remove engine cover by lightly pulling up at each corner.
5. Remove (8) bolts securing intercoolers to intake manifold.
6. Disconnect wiring connections at intercoolers.
7. Remove (2) clamps securing intercooler outlet to throttle body coupler.
8. Remove (2) clamps securing turbo outlet to intercooler inlet coupler.
9. Remove intercooler to throttle body coupler.
10. Remove turbo to intercooler coupler.
11. Stock turbo customers: Remove the (3) 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 at right on a turbo off the vehicle.
12. Stock turbo customers: Using the (3) OE Torx bolts, install the Z1 Diverter Valve Delete/Relocation Plate into the opening on the OE turbos.
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 Z1 Silicone Couplers and BOV Hose set.
15. Re-using your OEM clamps, install Z1 silicone throttle body to intercooler outlet couplers.

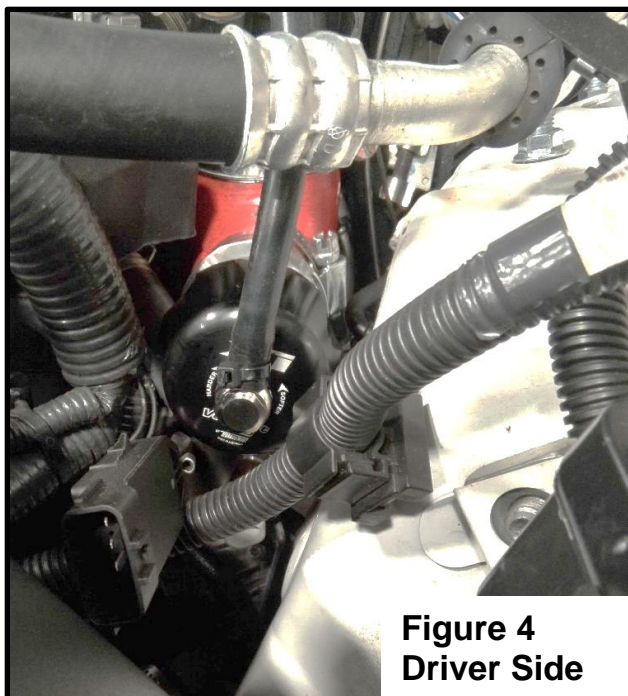


16. Re-using your OEM clamps, install Z1 BOV couplers. Refer to figures 1 and 2 for proper orientation. Depending on if you have stock or Z1 upgrade turbos you will receive different BOV silicone couplers, each coupler should have a small label indicating its part number. Stock turbo customer will receive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

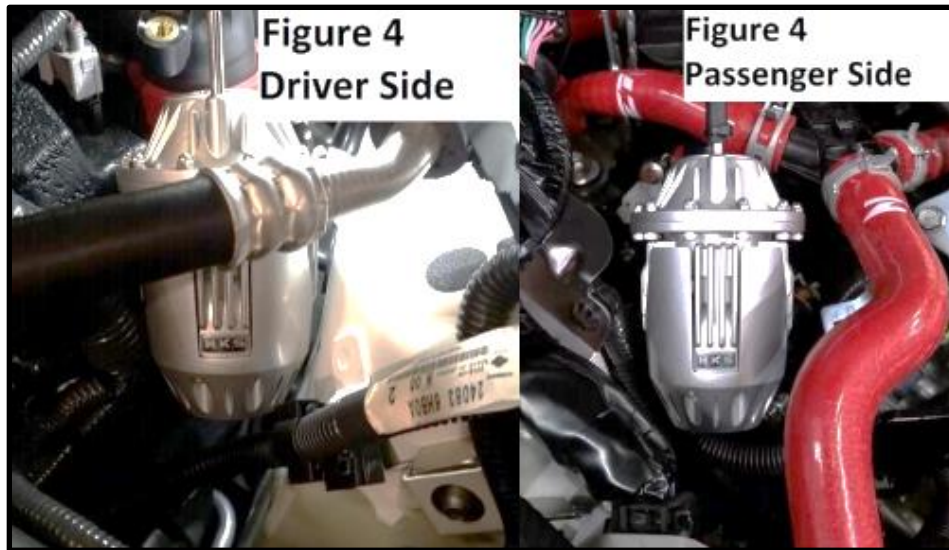


17. Once Z1 BOV couplers are in the correct position, tighten clamps.
18. Place a supplied clamp onto silicone BOV adapter.
19. Install BOV's into silicone couplers following the instructions below for your BOV choice. Refer to figure 4 for proper orientation for pneumatic BOV's.

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).



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 # 11 into the billet adapters with (3) 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.

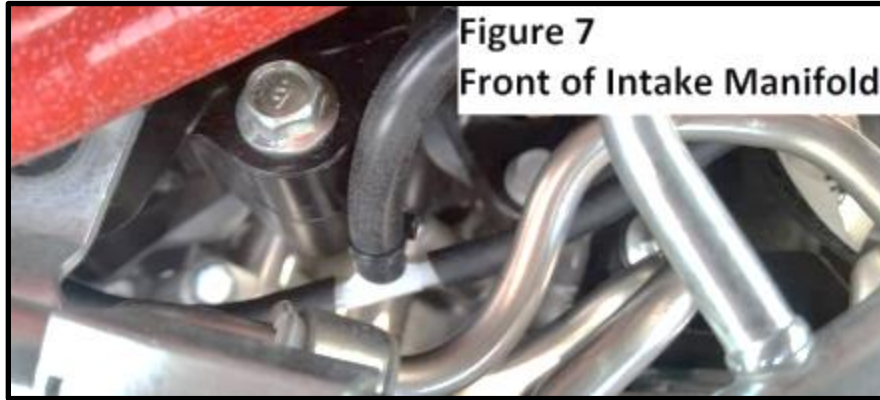
20. OE diverter valve to BOV conversion customers: If unplugged before, plug the OE diverter valve wiring harness back into the diverter valve.

Steps # 21-29 are only for Pneumatic BOV customers. Customers who purchased the diverter valve to BOV conversion kit can skip to step # 30.

21. Once BOV's are installed and positioned correctly, tighten clamps.
22. Locate supplied T-fittings and silicone vacuum hose.
23. Locate OEM vacuum hose at the back of the intake manifold (figure 5). Remove OEM vacuum hose.
24. Place 8" section of Z1 8mm silicone vacuum hose on hardline, secure with clamp or zip tie.
25. Place 8" section of Z1 8mm silicone vacuum hose on intake manifold vacuum nipple, secure with clamp or zip tie.
26. Connect each section of silicone hose using supplied reduction T-fitting. Secure with zip ties (figure 6).



27. Place 26" section of Z1 5mm silicone vacuum hose onto open T and route under intake manifold towards front of vehicle (figure 7).



28. Place supplied equal T-fitting into 5mm silicone hose.

29. Run 5mm vacuum hose from T-fitting to each BOV. Clamp using supplied zip ties.

30. Reinstall each intercooler, and assure all electrical connections are back in place.

31. Reinstall engine cover.

Note: Trimming of the engine cover may be needed to clear the BOV.

32. Perform a final check of the install process and assure 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