

Z1 350Z (HR) RACE COLD AIR INTAKE KIT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2007-2008	Nissan 350Z
2007-2008	Infiniti G35 Sedan

NOTICE:

The following kit has been developed and tested with US Model 350Zs. Repositioning, modification, and/or removal of front-end components may be required when used on a Nismo Edition Model 350Z or other models.

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 350Z / G35 (HR) Race Cold Air Intake Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	2	Silicone Reducer, 2-3/4" to 2-1/2"
2	2	Silicone Reducer, 3" to 2-1/2"
3	12	Hose Clamp, 2-1/3" to 3-1/4"
4	4	Hose Clamp, 2-13/16" to 3-3/4"
5	1	Air Intake Pipe – Driver Side
6	1	Air Intake Pipe – Passenger Side
7	2	2.5" Metal Union/Joiner
8	1	Silicone L-Hose – Passenger Side
9	1	Silicone L-Hose – Driver Side
10	1	PCV Hose 70mm 5/8" Dia. – Driver Side
11	1	PCV Hose 115mm 5/8" Dia. – Passenger Side
12	1	5/8" Hose Union
13	4	Constant Tension Clamps
14	2	3" Pop Charger Filter Element with Clamp
15	2	3" Metal Union/Joiner
16	1	Carb E.O. Sticker

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Wheel Chock
- Flat-head Screwdriver
- Philips-head Screwdriver
- Gloves
- Saw
- Silicone Spray
- 8mm Nut Driver
- 10mm Socket
- 14mm Socket
- Pliers
- Needle-nose Pliers

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 350Z / G35 (HR) Race Cold Air Intake Kit and verify that ALL necessary hardware is present.

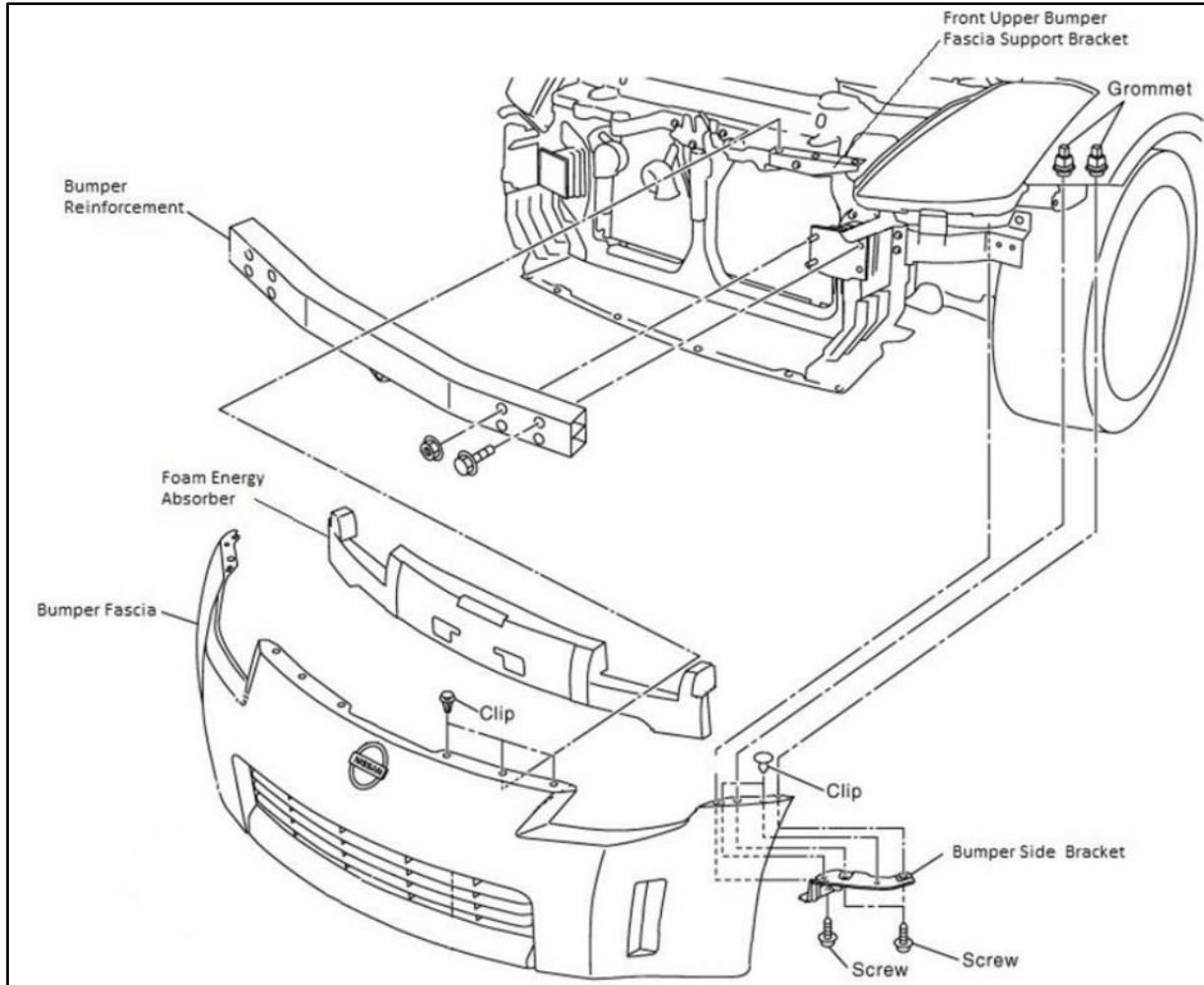
PROCEDURE:

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. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
4. Unlatch and raise vehicle's hood. Apply hood prop.

Use the Diagram below as reference for the following steps.

Note: Steps 5-11 refer to 350Z models. Please refer to the Factory Service Manual for other models.

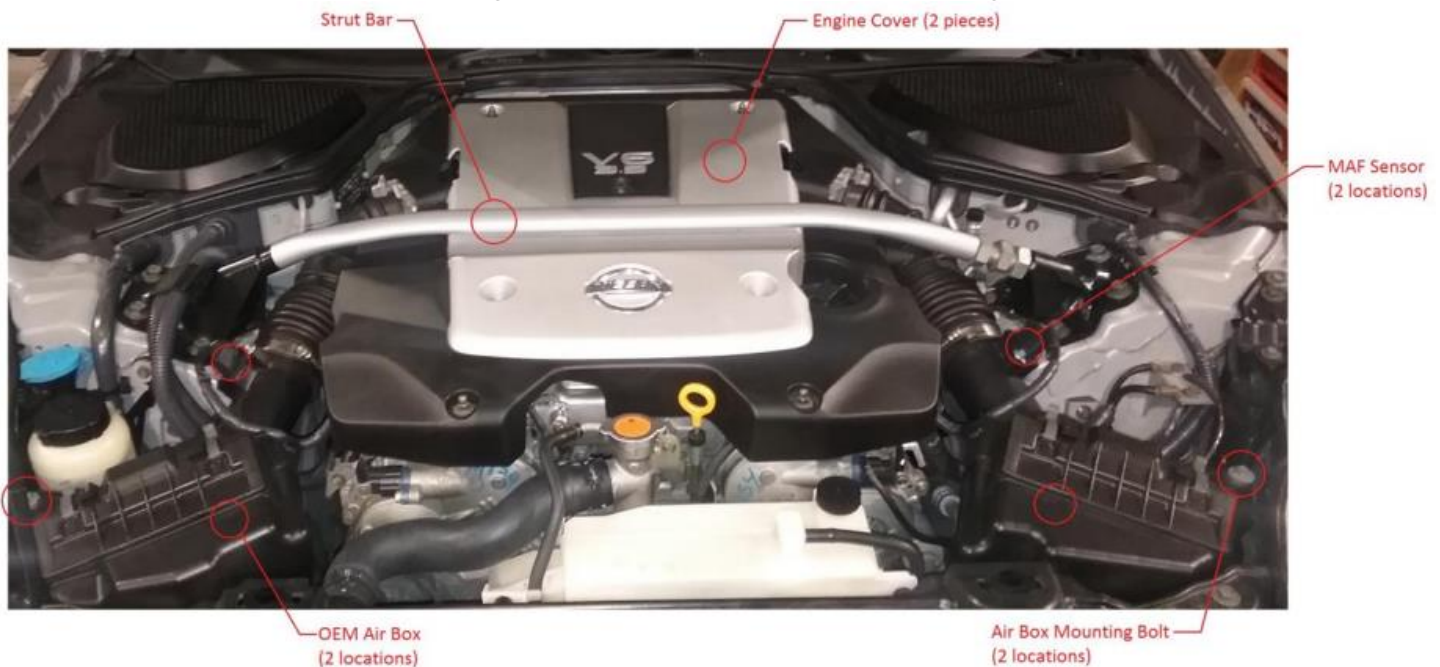


5. Remove (6) plastic clips which attaches bumper to top center of composite radiator core support.
 6. Peel back front wheel liner with flat-head screwdriver and remove (2) screws which mount front bumper fascia to the vehicle's bumper side bracket.
- Note: Turn wheels of vehicle to the inside of the side you are working on for increased accessibility.
7. Repeat step #6 on opposite side of vehicle.
 8. Remove (10) bolts which attach lower windage tray to bumper fascia.
 9. Carefully pull Front Bumper Fascia off from vehicle.



10. Remove driver and passenger front upper bumper fascia support brackets.
11. Remove foam energy absorber from vehicle.

Use the diagram below as reference for the following steps:



12. Remove (6) bolts and (2) hex nuts which attach strut bar to chassis. Remove strut bar and set aside.

Note: Loosen vehicle's electric harness clips at each side.

13. Locate and unplug (2) MAF sensor connectors as well as its plastic harness clips.
14. Remove (2) acorn nuts and (2) bolts which attach the 2-piece engine cover to engine. Remove cover and set aside.
15. Remove bolt which attaches passenger side baffle to intake plenum.
16. Remove bolt which mounts each OEM air box to chassis.
17. Separate passenger and driver side baffle from each throttle body hose.
18. Loosen hose clamp at each throttle body.
19. Remove plastic clip which attaches air intake duct to composite radiator core support near each OEM air box. Remove air intake ducts.
20. Using a light pull motion, loosen OEM air boxes from vehicle.
21. Remove air boxes and MAF hoses from vehicle as shown.



22. Temporarily remove and modify driver side baffle, as shown in picture below. Reinstall driver side baffle.



23. Locate 70mm long hose and (2) constant tension clamps. Slide clamps over hose. Install hose over nipple of driver side baffle. Secure hose at baffle with a clamp.

24. Locate (2) 2.75"-2.5" reducers and (2) hose clamps. Position reducer and loose hose clamp over each throttle body. Tighten hose clamps (as shown).



25. Remove (2) bolts which mount each MAF sensor to the OEM air intake assembly. Transfer sensors and bolts to MAF sensor mounting boss of Z1 Air Intake Pipes. Tighten mounting bolts.

Notes: Be sure to install MAF sensor onto air intake pipe facing the same direction removed from factory air intake box. There is an arrow on each MAF flange showing the direction of airflow.

26. Locate driver side air intake pipe and hose clamp. There is a left and right intake pipe. The MAF sensor should be on the bottom side of the air intake pipes, with the arrow showing the direction of airflow pointing towards the throttle bodies. Position loose clamp over throttle body reducer and slide in air intake pipe. Do not tighten hose clamp at reducer yet.

Note: Slide nipple of air intake pipe into hose at driver side baffle. Secure with constant tension clamp.

27. Locate driver side silicone L-hose. To differentiate the driver and passenger L-hoses, when oriented with the Z1 logo on top, the longer side will have a slight bend towards the throttle bodies, the passenger side will form an "L" and the driver side will form a backwards "L". Insert hose through composite radiator core support at driver side.

Note: Silicone hose will conform to profile of through hole, however removing material from composite radiator support is advised for optimal performance.

28. Once through core support, position loose hose clamp over silicone hose and fit onto air intake pipe. Do not tighten clamp yet.
29. Install 2.5" metal union at the end of silicone L-Hose and secure with hose clamp.
30. Install 3"-2.5" silicone reducer onto metal air filter union at end of silicone L-hose, secure with clamp.
31. Install 3" metal union at the end of the 3" reducer and secure with hose clamp.
32. Orient reducers, air intake pipe, and silicone L-hose to relieve any structural stresses. Once complete, tighten hose clamps located at throttle body and a silicone L-hose and air intake pipe.
33. Plug MAF sensor harness back into MAF sensor.
34. Locate 5/8" hose union, 115mm long hose, and (2) constant tension clamps. Slide union into intake crossover pipe at passenger side (as shown) and secure with clamp. Slide 115mm hose over union and secure with clamp.
35. Repeat steps #27 through #32 on opposite side of vehicle.
36. Reference the Factory Service Manual for removal of the OEM Crash Bar.

Note: Refer the diagram on pg. 3 of this manual to assist.

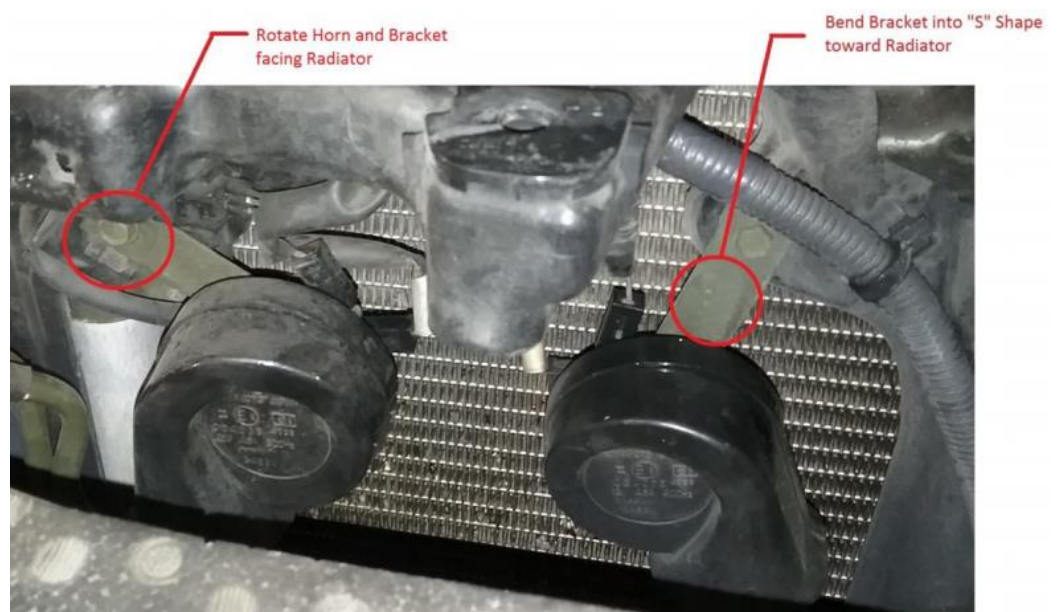
37. Install modified front crash bar.

Note: See images provided at the end of this manual for specifications on how to modify the OEM Front Crash Bar. Z1 also offers a modification service with 10 day lead time. Do NOT drive your vehicle without a front crash bar.



38. Locate Z1 air filters.
39. With a clamp, slide filters onto 3" air filter union and tighten clamp.

Note: Horns at passenger side may interfere with air filter assembly. To resolve this issue, simply bend horn mounting bracket towards the radiator until horn is clear of air filter (as shown).



40. Follow steps #5 through #11 in reverse order to reinstall front bumper fascia.
41. Reinstall engine cover (if desired).
42. Reinstall strut bar.
43. Properly lower vehicle from jack stands.
44. Inspect vehicle for loose tools/items
45. Start vehicle. While at idle, check for leaks or faulty operation of air intake kit.
46. Locate the C.A.R.B. exemption sticker. The sticker must be readily visible under the hood in order for an emissions inspector to easily see it when the vehicle is required to be tested for emissions. It is NOT recommended to affix the label to any equipment that is easily removable from the vehicle.



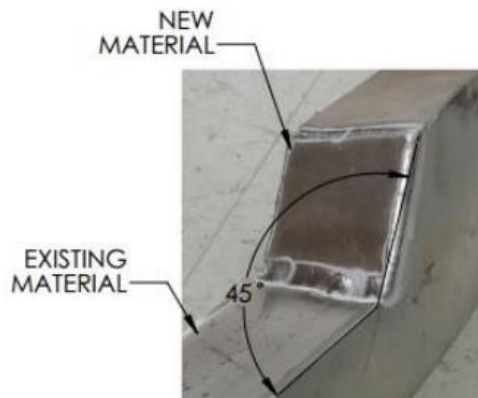
47. Select a suitable location (strut tower, underside of hood, radiator shroud or core support, etc.). Clean the area to remove all debris and dust. Apply the sticker to vehicle.
48. Lower hood of vehicle.
49. Perform a final test drive of vehicle.

END

Additional Technical Support:

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

350Z Crash Bar Modification Specifications



WELDING DETAIL

