

Z1 350Z / G35 (HR) 3" 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 3" Intake Kit, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

Parts Included:

Item	Quantity	Description
1	2	Z1 3" Intake – Driver Side
2	1	Z1 3" Intake – Passenger Side
3	1	3" Intake Silicone Hose – Driver Side
4	1	3" Intake Silicone Hose – Passenger Side
5	1	3" Post-MAF Silicone Hose (with PCV barb) – Driver Side
6	1	3" Post-MAF Silicone Hose (with PCV barb) – Passenger Side
7	1	PCV Breather Hose – Driver Side
8	1	PCV Breather Hose – Passenger Side
9	1	PCV Vent Hose
10	1	5/8" Tee Connector
11	2	Z1 3" Air Filter
12	2	3" Air Filter Joiner
13	8	Large HD Hose Clamp, 2-13/16" – 3-3/4"
14	2	Medium HD Hose Clamp, 2-1/3" – 3-1/4"
15	8	Small Constant Tension Clamps
16	1	Bumper Bracket – Driver Side
17	1	Bumper Bracket – Passenger Side

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- 8mm Nut Driver
- Assorted Metric Sockets (10mm-19mm)
- Assorted Metric Wrenches (10mm-19mm)
- Ratchet
- Ratchet Extension(s)
- Silicone Spray
- 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 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:

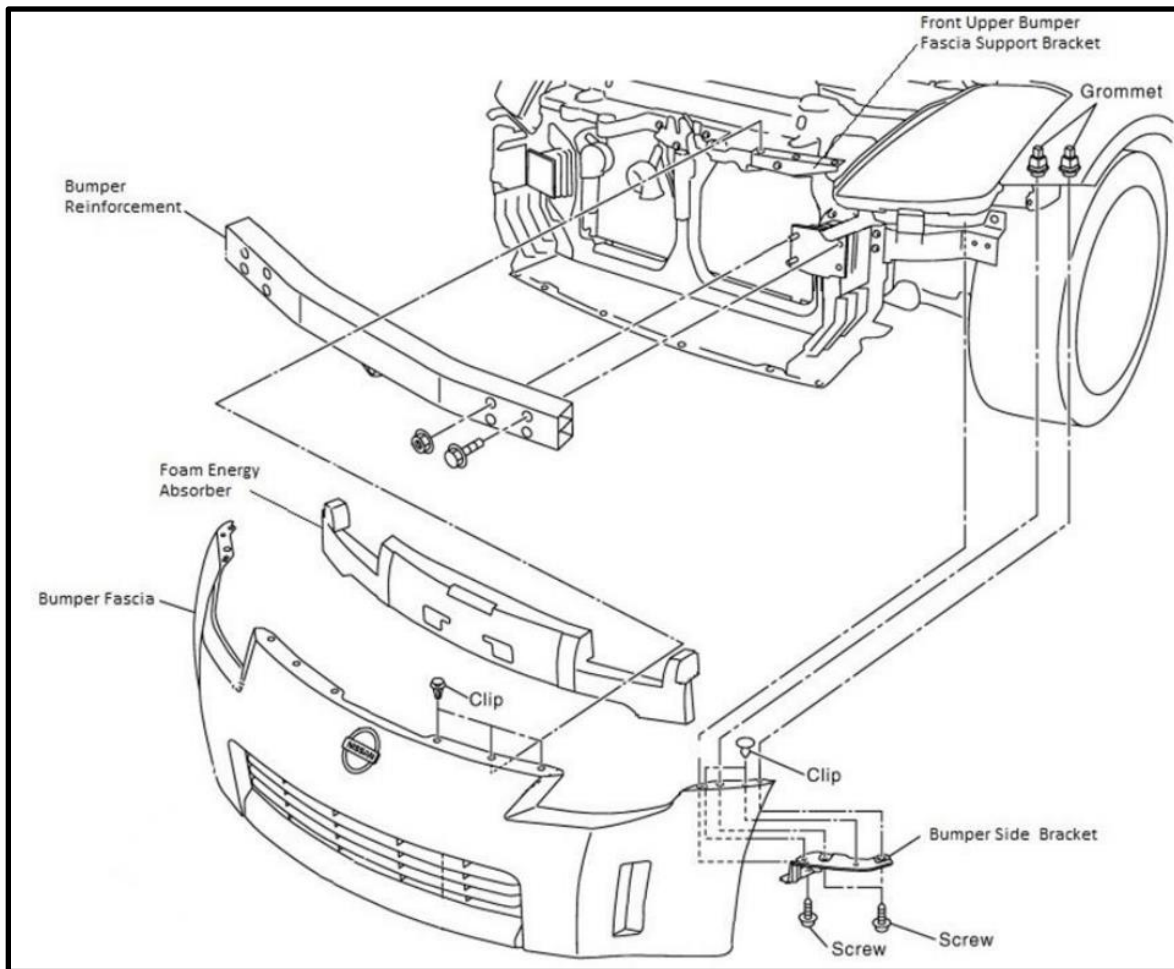
Remove contents from the Z1 Motorsports 350Z / G35 HR 3" Intake Kit and verify that ALL necessary hardware is present.

PROCEDURE:

1. Assure the vehicle's ignition is in the OFF position and the NEGATIVE (-) battery terminal is disconnected.
2. Place the transmissions 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.

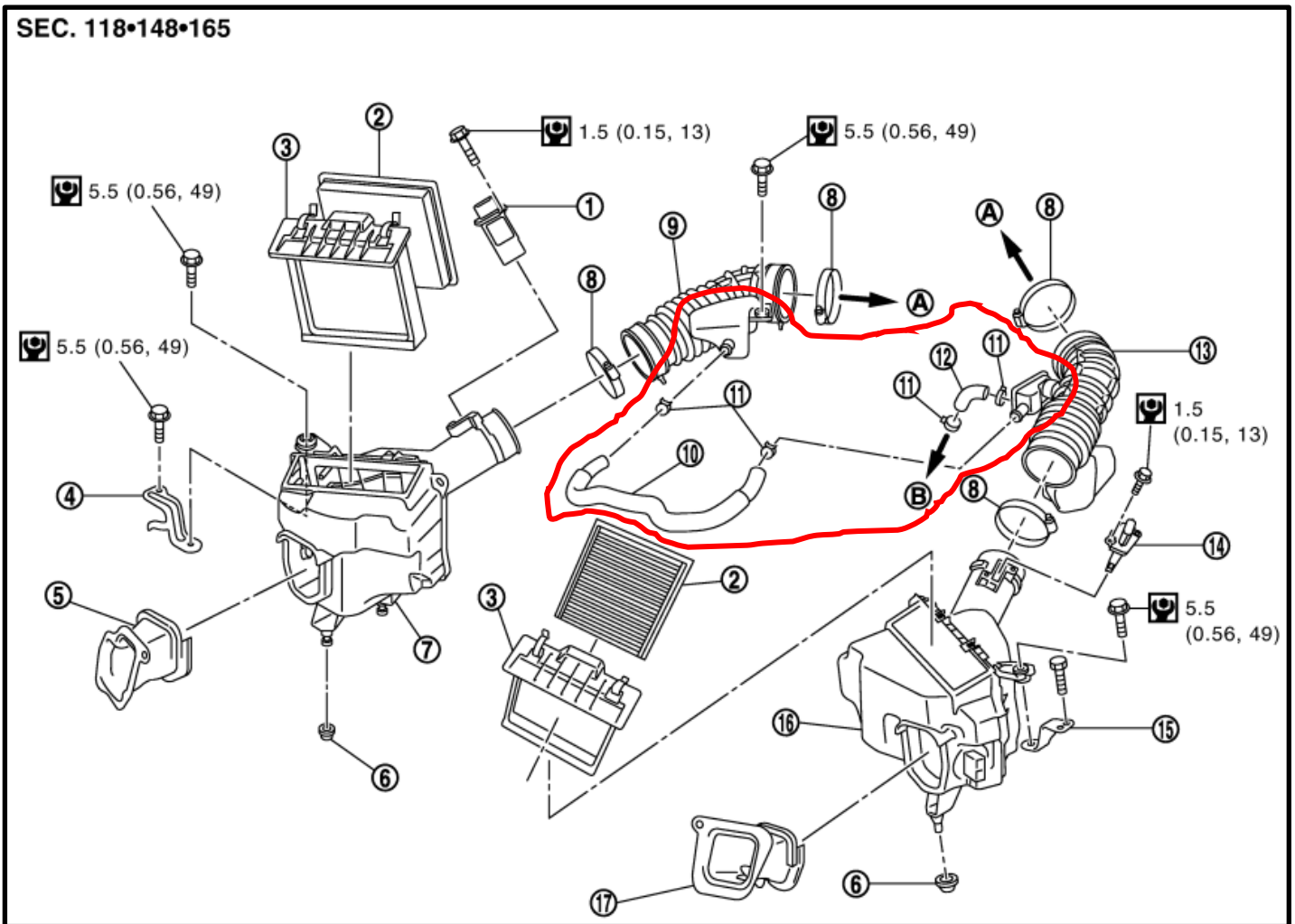
19. Remove plastic clip which attaches air intake duct to composite radiator core support near each OEM air box. Remove air intake ducts.

20. Using a light pull motion, loosen OEM air boxes from vehicle.

21. Remove air boxes and MAF hoses from vehicle as shown.



22. Locate and remove the center upper and driver side PCV hoses, and the plastic resonators circled below:



23. Locate (2) post-MAF silicone hoses and (2) medium hose clamps. Position hose and loose hose clamp over each throttle body (as shown).

24. Locate both Z1 air intake pipes. Remove (2) bolts which mount each MAF sensor to the OEM air intake assembly. Transfer a sensor and (2) bolts to the MAF sensor flange on each Z1 Air Intake Pipe. Tighten mounting bolts.

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

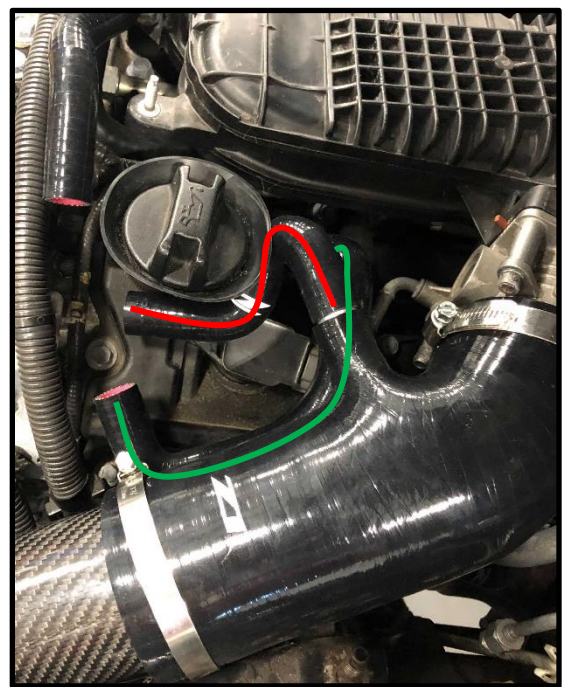
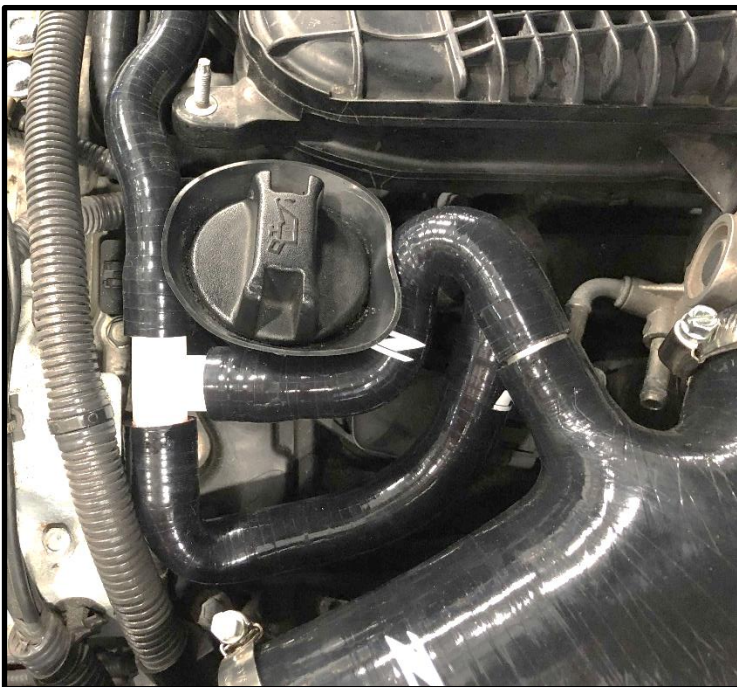
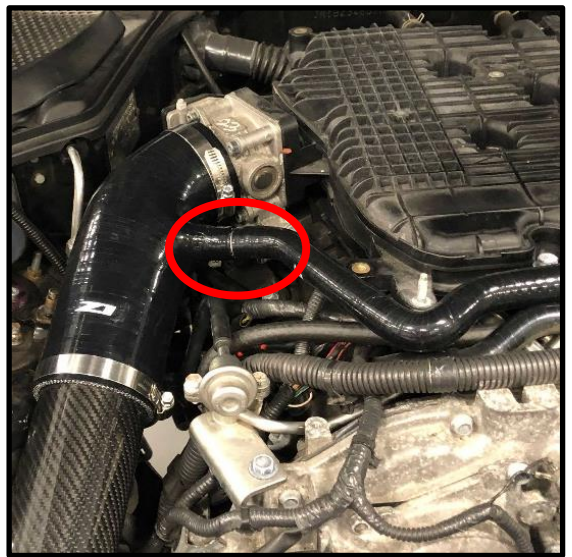
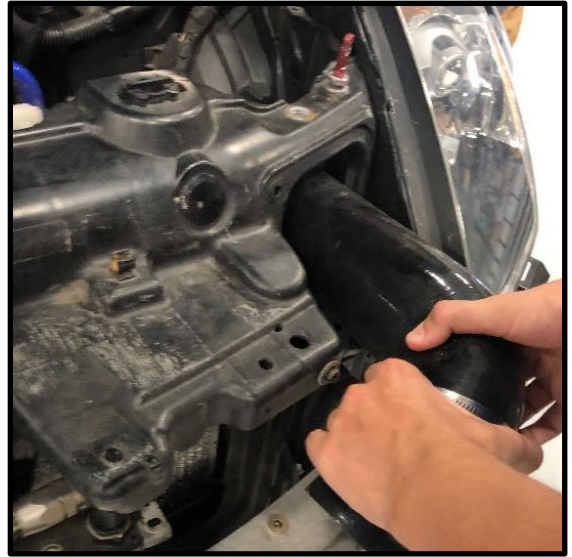


25. Position loose clamp over post-MAF silicone hoses and slide in air intake pipes. The MAF sensor should be on the bottom side of the air intake pipes, with the arrow showing the direction of airflow pointing towards the throttle bodies. Do not tighten hose clamp at throttle body yet.

Note: Use of silicone spray or other dissolvable lubricant is recommended for all assembly which involves silicone hoses.

26. Locate (2) silicone L-hoses. 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.

27. Once through core support, position loose hose clamp over silicone hose and fit onto air intake pipe. Do not tighten clamp yet.
28. Position loose hose clamp over the other end of the silicone hose exposed at front of vehicle. Locate and install (2) air filter unions with bead-rolled end into silicone L-hose.
29. Orient post-MAF hose, air intake pipe, and silicone L-hose so to relieve any structural stresses. Once complete, tighten hose clamps located at throttle body and at silicone L-hose and air intake pipe.
30. Plug MAF sensor harness back into MAF sensor.
31. Locate 5/8" tee connector, (6) constant tension clamps and PCV hose set included with the kit.
32. Position longest hose in front of intake plenum and slide onto barb at passenger side post-MAF hose (as shown at right). Secure with constant tension clamp on both ends of the barb.
33. Position medium length hose onto port on driver side valve cover, routing under post-MAF hose barb (as shown below). Secure with constant tension clamp.
34. Position shortest hose onto barb on post-MAF hose (as shown below). Secure with constant tension clamp.
35. Connect tee connector onto all (3) PCV hoses (as shown below). Secure with constant tension clamp.
36. Reference the Factory Service Manual for removal of OEM front crash bar.



Note: Refer to diagram on pg. 3 to assist.

37. Install modified 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 a 10 day lead time. Do **NOT** drive your vehicle without a front crash bar.

38. Locate (2) air filters, (2) air filter joiners, and (2) large hose clamps. Insert barbed side of joiner into each air filter. Position hose clamp over air filter and tighten.



39. Position air filters with unions and loose hose clamp into front of L-hoses. Tighten hose clamp.

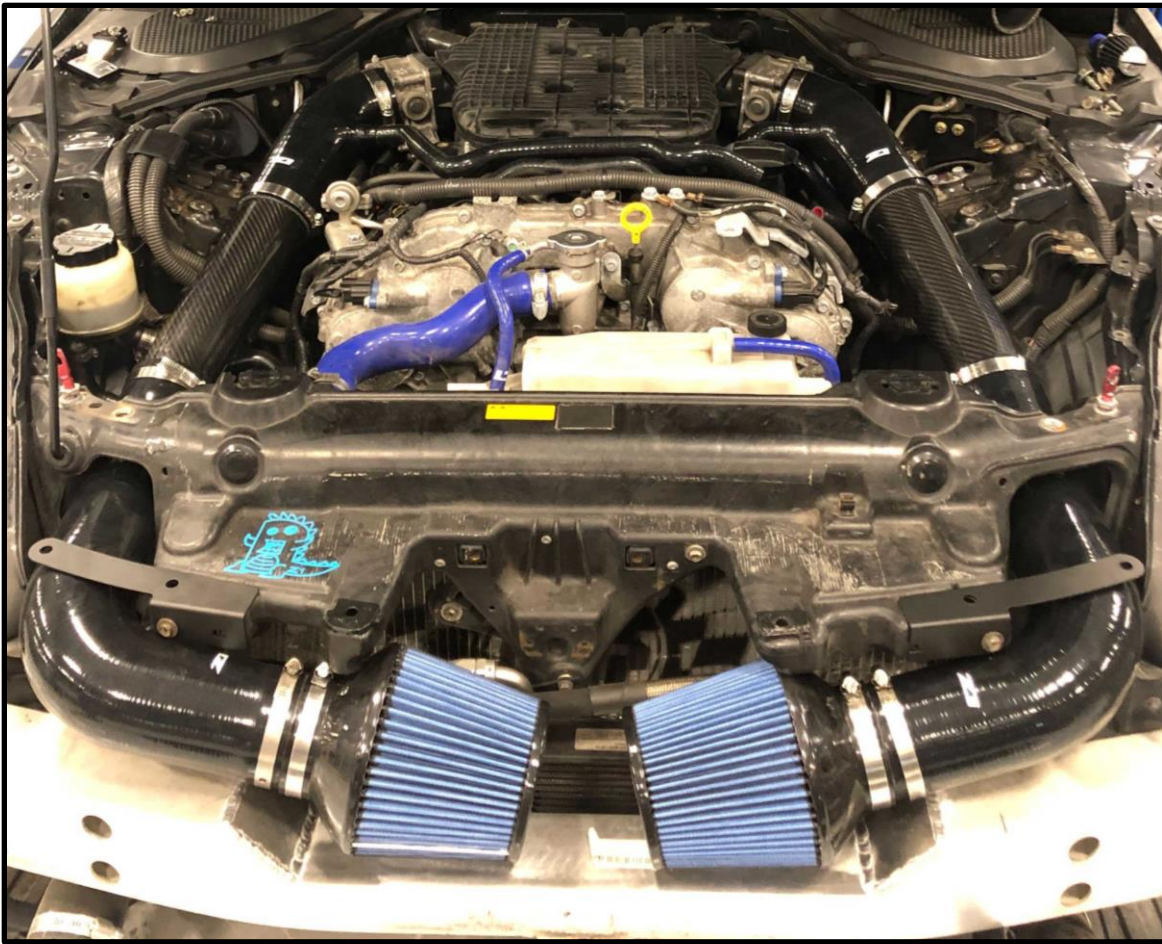
Note: Horns at passenger side may interfere with air filter assembly. To resolve this issue, simply bend horn mounting bracket towards the radiator until horn is clear of air filter (as shown).



40. Locate both passenger and driver bumper brackets. Position them onto front of radiator core support using the OEM hardware (as shown).



Complete assembly of the Z1 350Z / G35 HR 3" Air Intake Kit should look as shown:



41. Follow steps #5 through #11 in reverse order to reinstall front bumper fascia.
42. Re-install engine cover (if desired).
43. Re-install strut bar.
44. Properly lower vehicle from jack stands.
45. Inspect vehicle for loose tools/items.
46. Start vehicle. While at idle, check for leaks or faulty operation of Air Intake Kit.
47. Lower Hood of vehicle.
48. Perform a final test drive of vehicle.

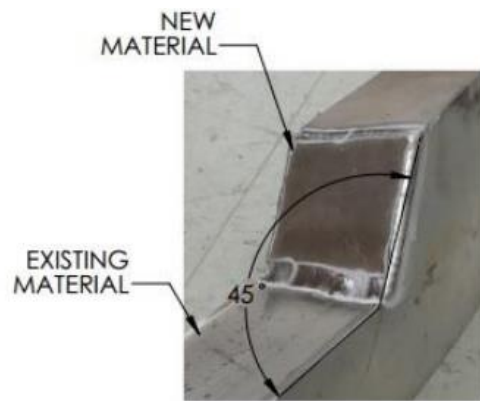
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Additional Technical Support:

Contact Z1 Motorsports at info@z1motorsports.com

Or call 770 838 7777 between 9am and 6pm ET

350Z Crash Bar Modification Specifications



WELDING DETAIL

