

Greddy INTERCOOLER KIT

NISSAN GT-R R35

(VR38DETT)

SPEC-R HG TYPE29

Full KIT

Installation Manual

- Please read the Installation Manual before installing.
- Keep this manual for future reference.

Model	Chassis Code	Engine Code	Year
GT-R	CBA-R35	VR38DETT	07. 12~

Specs : Cross-flow Type

Designed for the Greddy Turbo Kit(TD 06 SH-20 G)

- If used with the OEM Turbo, Greddy Airinx Kit required.
Not compatible with the stock air box.
- Stock windshield washer tank not compatible with Greddy Intercooler Kit.
Greddy Windshield Washer Tank sold separately.
- Stock Intercooler Air Duct is not compatible with Greddy Intercooler Kit.



Designed to be used on the Nissan R35 GTR. Please do not attempt to use on other model vehicles.

Using this product may void your warranty from Nissan Motor Co., Ltd. Corporation

1. Parts List

1. Intercooler	TYPE-29		1
2. Intake tube	I-1	(70 φ aluminum elbow)	1
3. "	I-2	(70 φ aluminum)	1
4. "	I-3	(70 φ aluminum)	1
5. "	I-4	(70 φ aluminum)	1
6. "	I-5	(70 φ aluminum elbow)	1
7. "	I-6	(70 φ aluminum)	1
8. "	I-7	(70 φ aluminum)	1
9. "	I-8	(70 φ aluminum)	1
10. Silicone hose	70 φ×70mm		12
11. Hose clamp	#44		24
12. Intake tube bracket	RH		1
13. Intake tube bracket	LH		1
14. Wire Harness	(1000mm)		8
15. Bolt	M6×15mm	P1. 0	2
16. Bolt	M8×20mm	P1. 25	4
17. Collar nut	M8	P1. 25	4
18. Nut	M8	P1. 25	4
19. F/W	M8		4
20. Blow Off Valve Type RZ (page 3 parts lists)			1 set

Parts List Diagram



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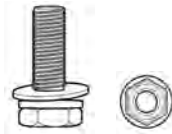
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15~19



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Blow Off Valve Parts List

1.	Blow off valve	×2	6.	Hose Clamp size #16	×4
2.	Hose attachment 29 φ	×2	7.	Blow off valve gasket	×2
3.	Rubber cap 30 φ	×2	8.	Emblem	×2
4.	Vacuum hose 6 φ×300mm	×2	9.	Bolt and washer	×4
5.	Power band 6 φ	×4			

Parts List Diagram



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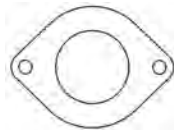
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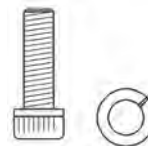
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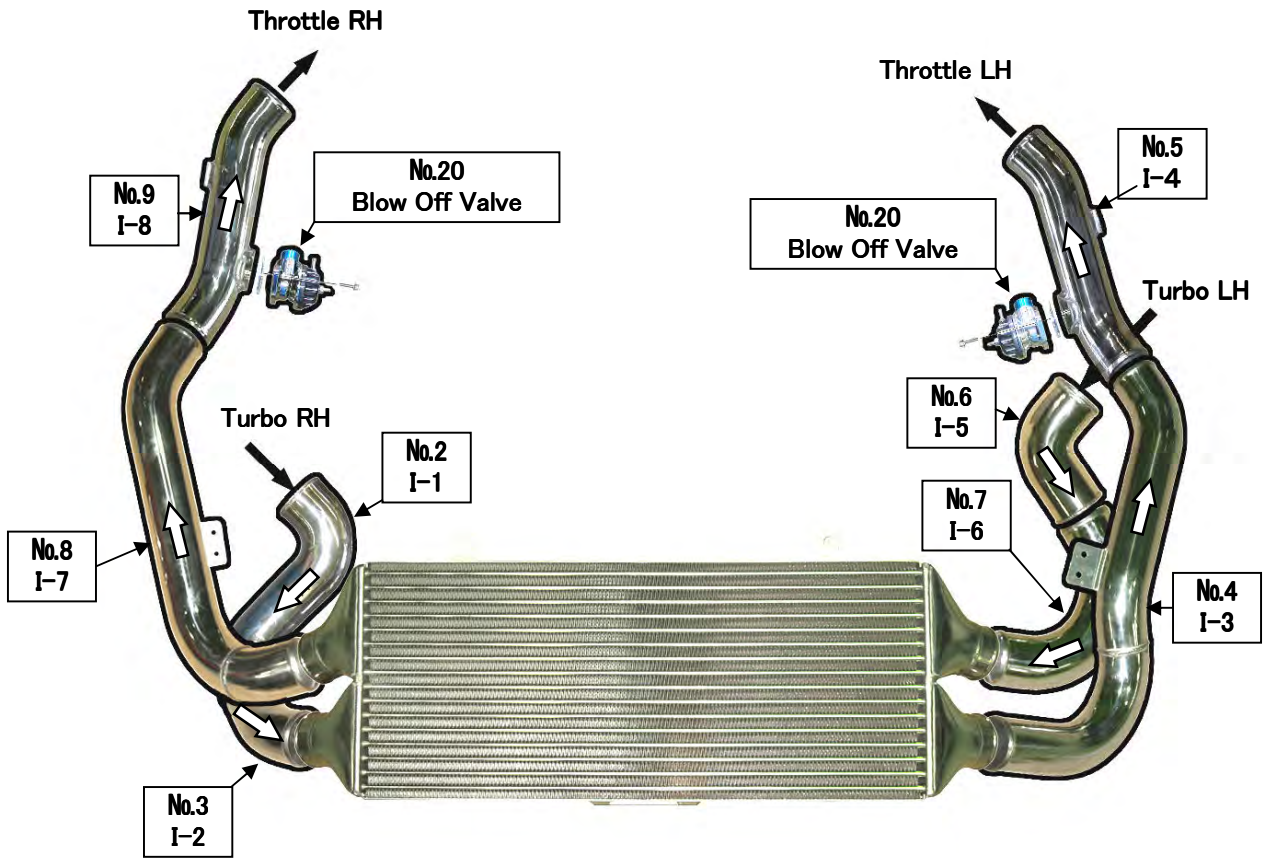


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Piping Layout



2. Removal of Stock Parts

2-1 Front Bumper Removal

(1) Disconnect the negative terminal of the battery.

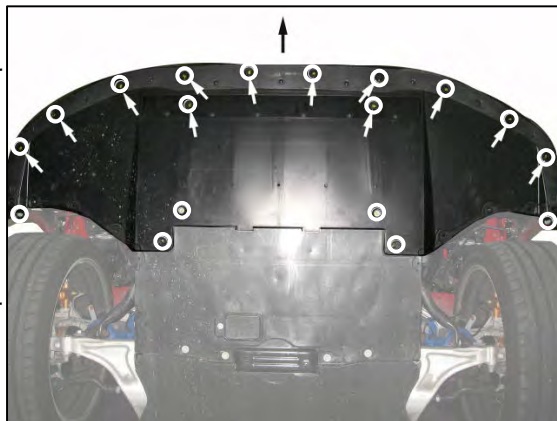
If the car was recently shut off, please wait 3 minutes before disconnecting the battery.

(2) Remove the front, the inner, the left and the right inner fender protectors.

(3) Remove the one-piece lip spoiler/ undercarriage cover.

※ Remove the rubber plugs to expose the bolts and screws.

※ Slide the one-piece lip spoiler/ undercarriage cover forward (away from the car) to remove.

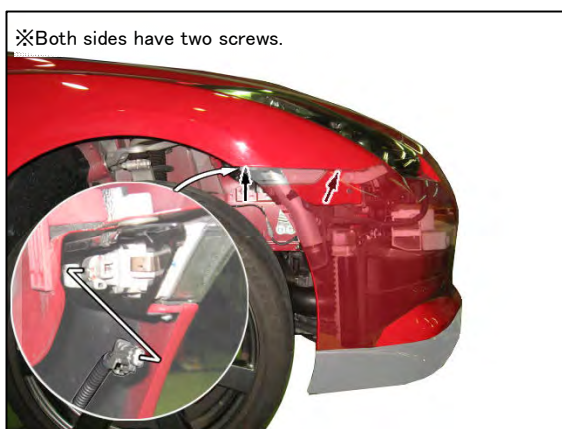


(4) Remove the radiator cover.



(5) Remove the front bumper/ fascia screws.

(6) Remove the wire connector from the turn signal lamp.



(7) Remove the connector from the pedestrian impact sensor.

- ※ If the battery is reconnected while the pedestrian impact sensor is disconnected, a popup hood warning light will appear on your instrument panel.



(8) Remove the bumper/ fascia.

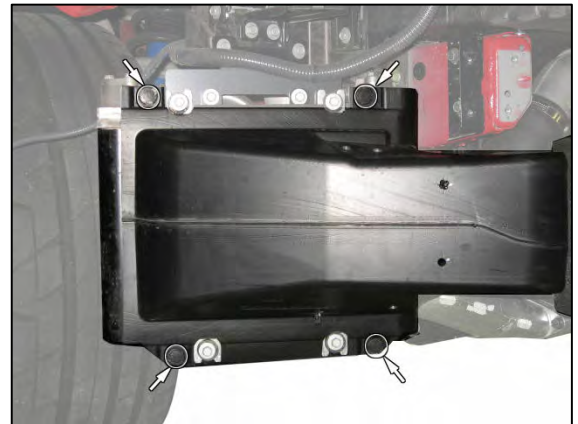
- ※ Be aware of the bumper fasteners, some adjustment required to remove the bumper/ fascia.



2-2 Air Intake Duct Removal

(1) Remove the engine oil cooler duct.

- ※ Allow the oil cooler to hang freely.



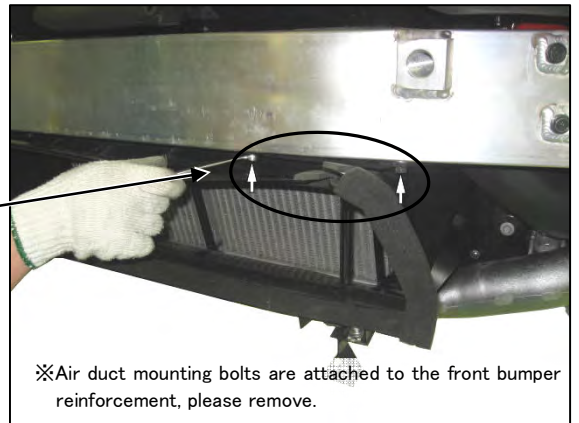
(2) Remove the left and right intake duct.



(3) Remove the impact foam.



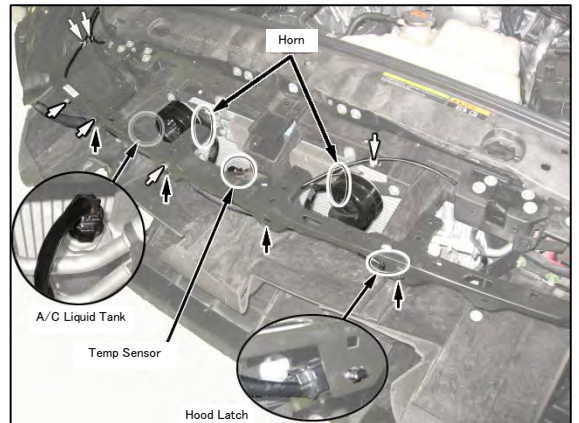
(4) Remove the front bumper reinforcement.



(5) Disconnect the couplers.

(6) Remove the hood latch cable and cable fastener.

- ...Electrical Couplers
A/C Liquid Tank, Outside Temp. Sensor
Hood Latch, Horn
- ➡ ...Cable fastener
- ➡ ...Hood :Lock Cable Fastener



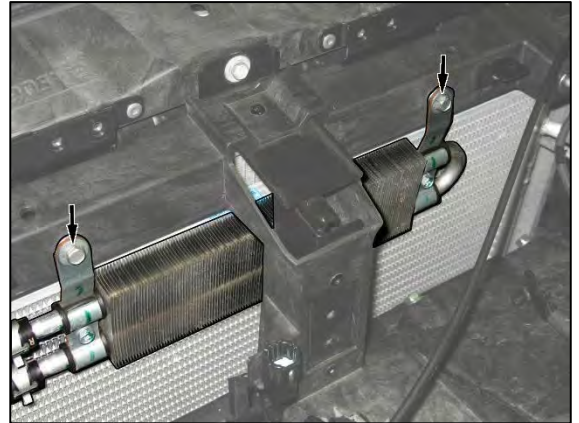
(7) Remove the front bumper retainer (upper side).



(8) Remove the P/S Oil Cooler mounting bolts, and let the cooler hang freely.

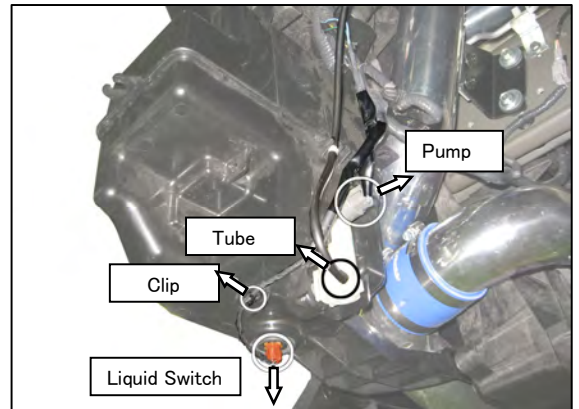
※ Removal of oil line is not necessary.

※ Be careful not to damage the oil cooler and A/C condenser.



(9) Disconnect the windshield washer pump and washer liquid level switch connectors. Remove the front Washer Tube from the Pump.

Remove the washer liquid level switch fastener.

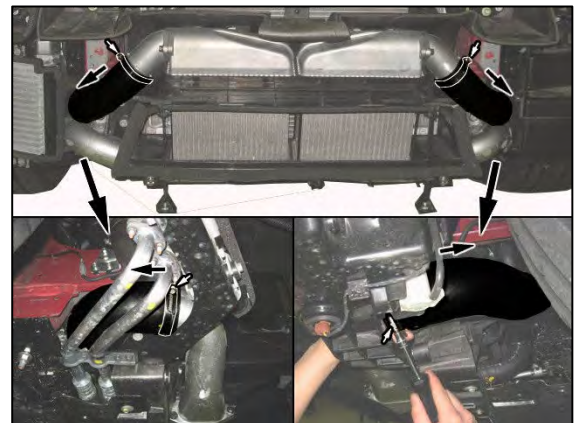


(10) Remove the washer tank.

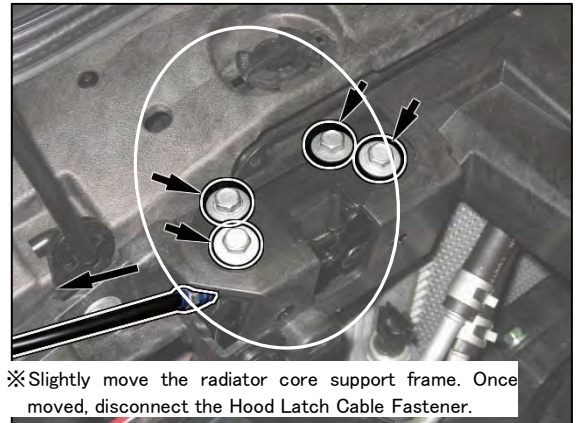
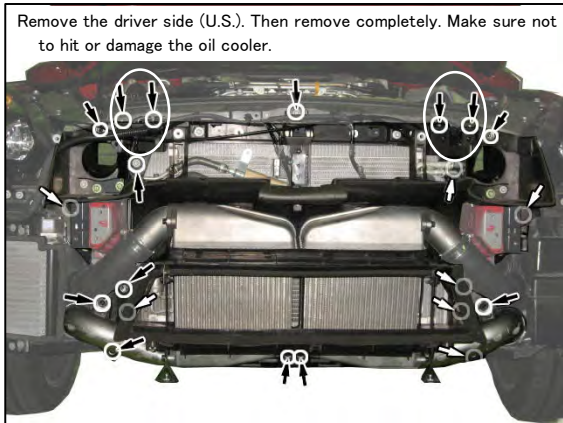


(11) **Intake Pipe Hose Removal**

Remove the pressure sensor coupler and the vacuum line from the top of the recirculation valve. Then remove the stock charge piping



(12) Remove the radiator air guide bolts. Once removed, uninstall the Intercooler(s) and radiator core support.

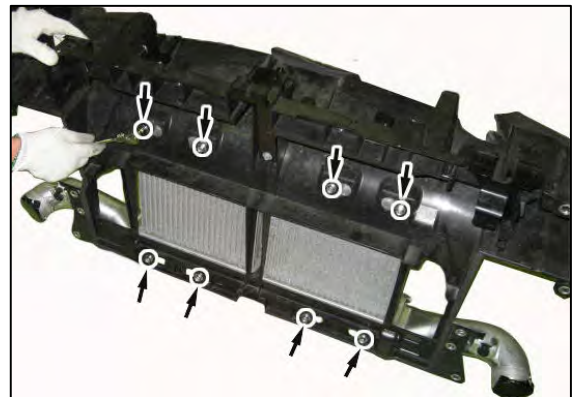


2-3 Intercooler Removal

(1) The arrows show the rivets that will need to be drilled out. Once the rivets are drilled out, please remove the Intercooler Intake Duct.



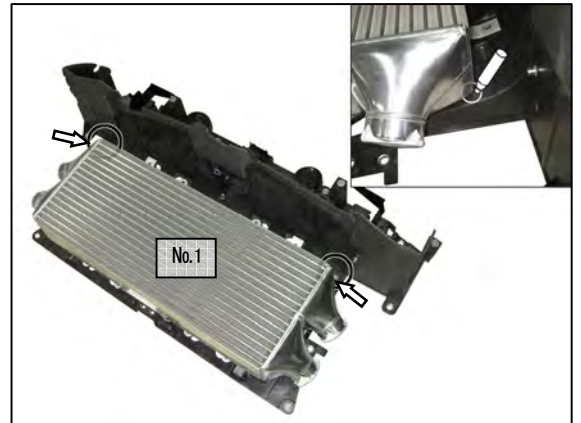
(2) Separate the intercooler(s) from the radiator core support.



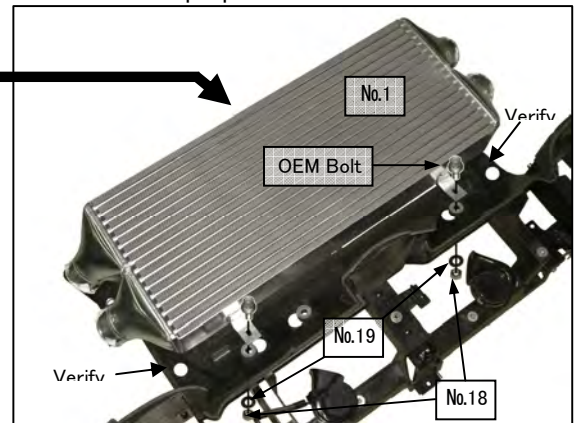
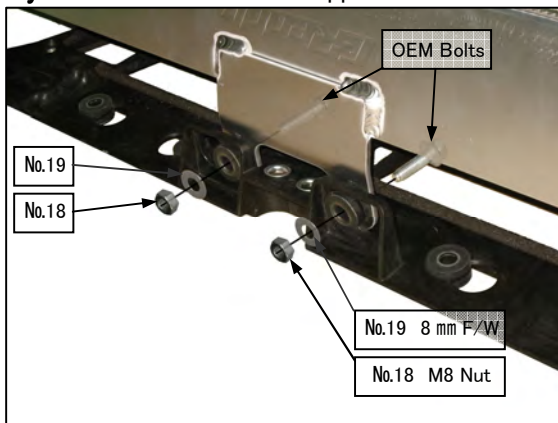
3. Intercooler Install

3-1 Intercooler Core Installation

- (1) Temporarily install the intercooler on to the radiator core support and mark the areas where the intercooler hits the support.
- (2) Drill out the areas where the radiator core support hits the intercooler.



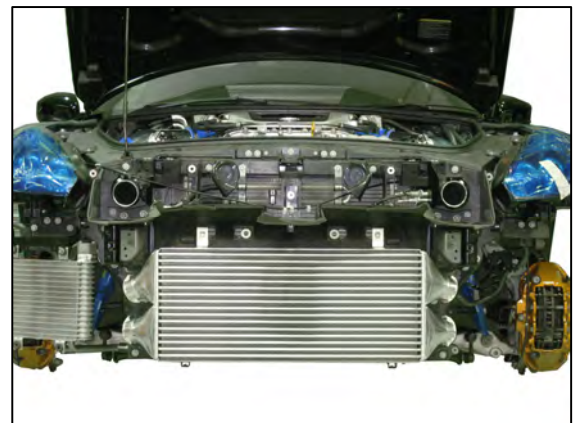
- (3) Install the intercooler on to the radiator core support using part # 1, 18, & 19.
- (4) **Verify** that the radiator core support has been drilled out in order to achieve proper clearance.



3-2 Radiator Core Support & Intercooler Installation

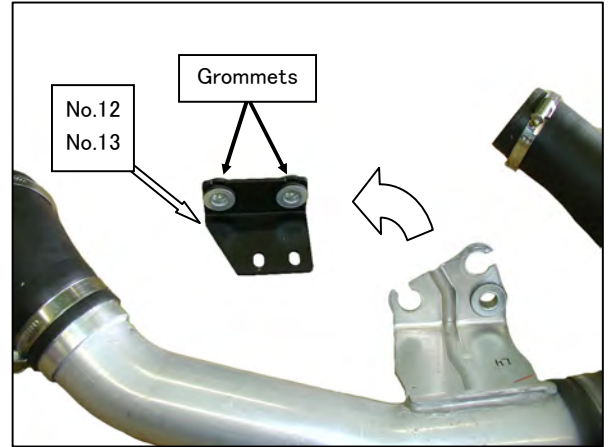
Reinstall the radiator core support in reverse order of removal..

※ **Removal of the Air Intake Duct, please refer to page 6-8.**

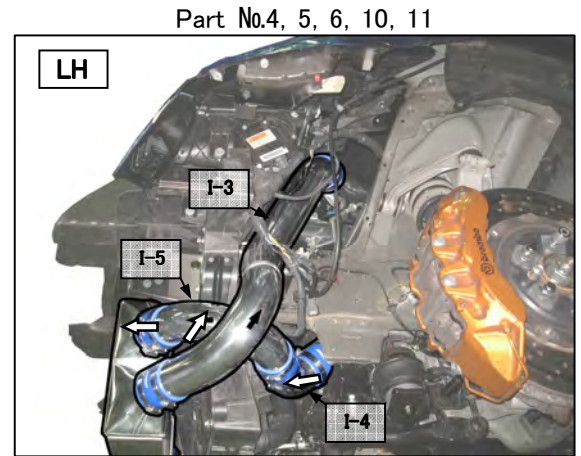
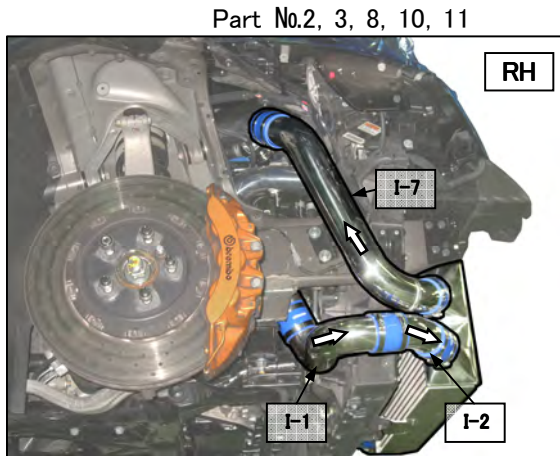


3-3 Intercooler Side Intake Tube Installation

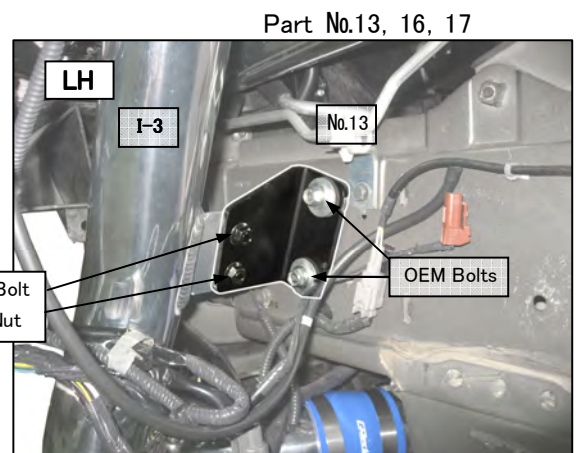
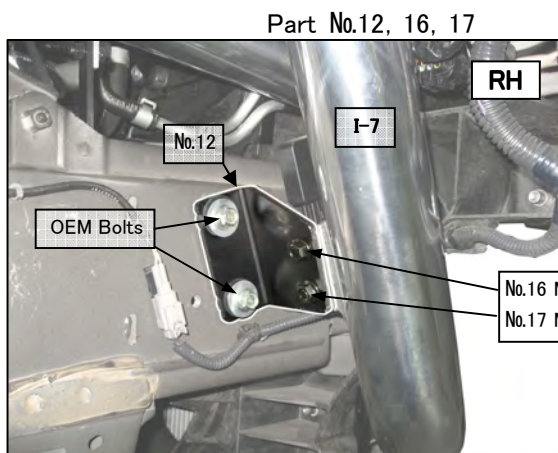
- (1) Remove the rubber and steel insulated grommets from the stock intake piping, and install them onto the intercooler mounting brackets part # 12 & 13.



- (2) Arrange the intercooler piping in the as shown in the diagram.
 - ※ Follow the arrows on the intercooler piping for proper orientation.
 - ※ Temporarily attach the piping loosely. Carefully make adjustments as needed.



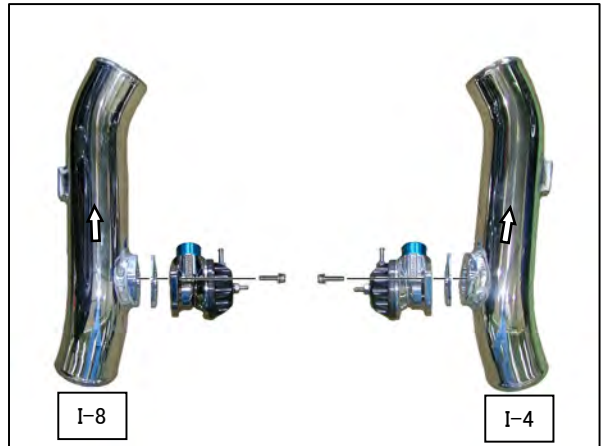
- (3) Temporarily tighten the Intercooler Piping Brackets to the chassis.
 - ※ Tapered side of the bracket should be facing upwards.



3-4 Throttle Side Intake Tube Installation

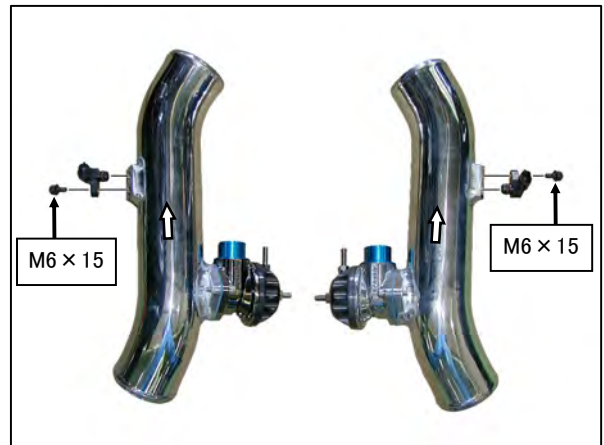
(1) Install the RZ Blow Off Valves onto intake tubes I-4 & I-8

※ Make sure to arrange the Blow Off Valve outlets in the direction towards the pressure sensors.



(2) Disconnect the pressure sensors from the stock piping and install them onto Intercooler Pipes I-4 & I-8.

※ We recommend applying silicone grease to the pressure sensor O-rings.



(3) Blow Off Valve Attachment Selection.

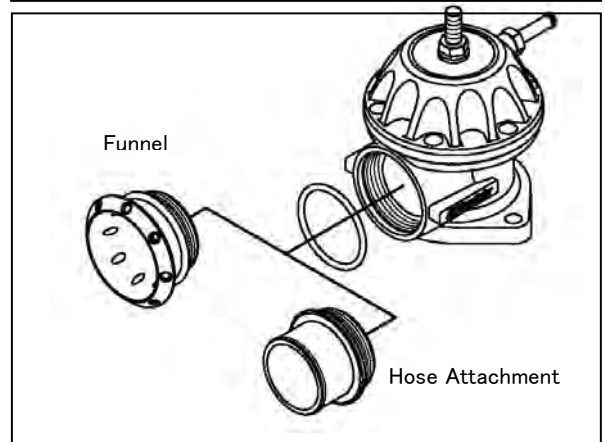
Recirculated

Install the Hose Attachment.

Atmospheric

Install the Funnel.

※ For Blow Off Valve Attachment installation, please refer to the Blow Off Valve manual.

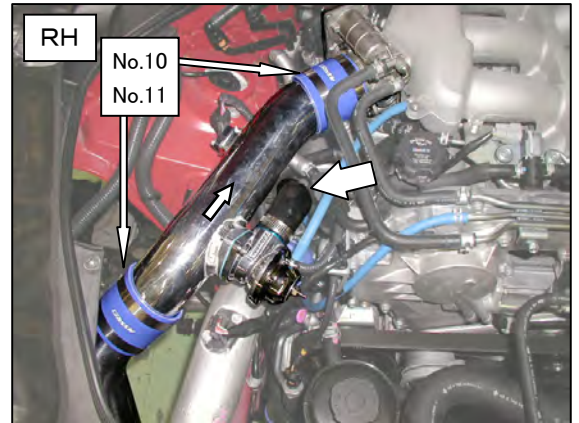


Recirculated Blow Off

(1) Install the OEM recirculation hoses to the Blow Off Valves.

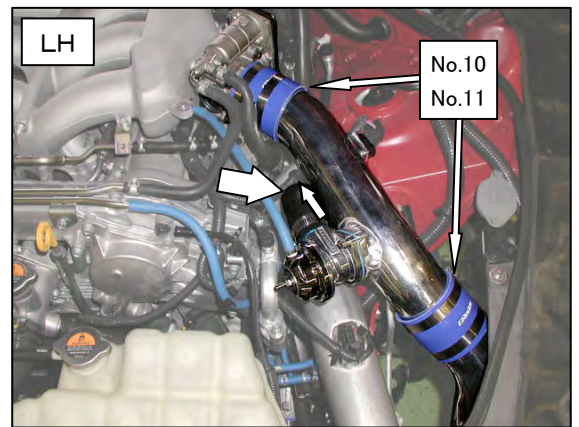


- (2) Temporarily attach intake tube I-8 assembly between the passenger side throttle body and I-7 using the 70mm hose #10 and hose clamps #11. Connect the OEM recirculation hose to the 28mm tube of the turbo inlet intake tube using the hose clamp #6 (BOV parts list) to the Hose Attachment.



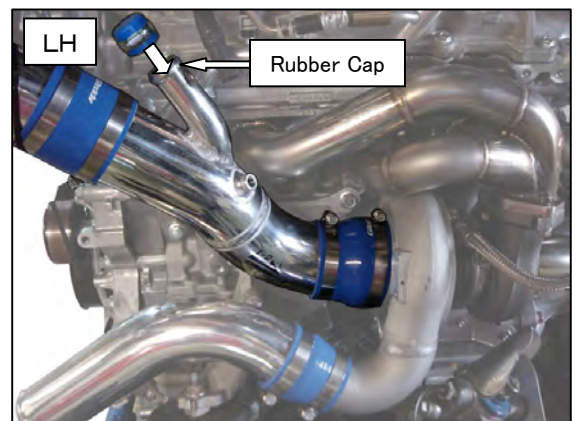
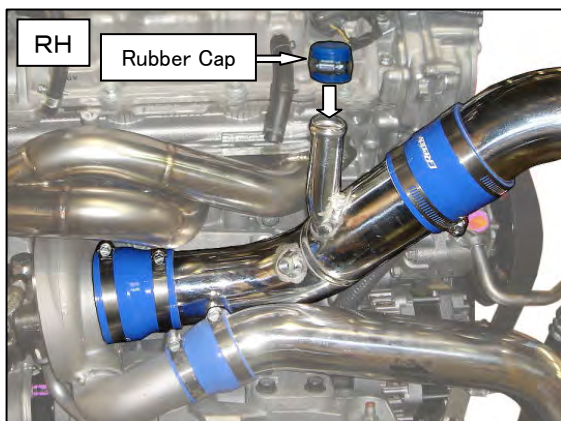
- (3) Temporarily attach intake tube I-4 assembly between the driver side throttle body and I-3 using the 70mm hose #10 and hose clamps #11. Connect the OEM recirculation hose to the 28mm tube of the turbo inlet intake tube using the hose clamp #6 (BOV parts list) to the Hose Attachment.

When using the recirculated method, part #3 (BOV manual) the rubber cap will not be used.

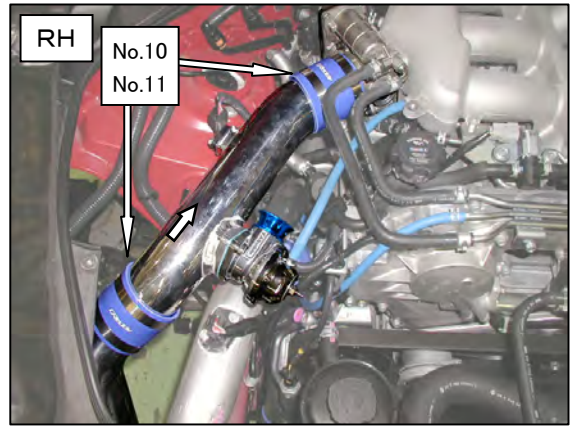


Atmospheric Blow Off

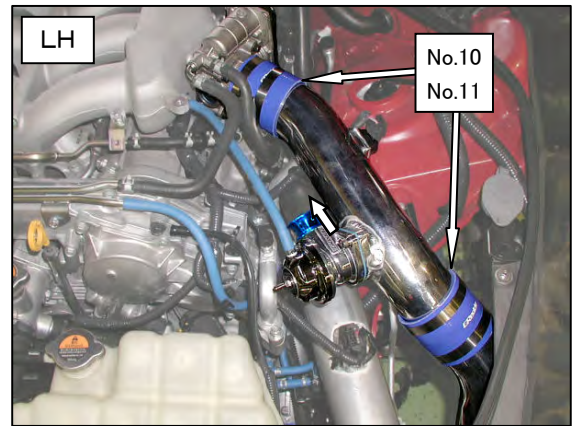
- (1) In both left and right side turbo inlet intake tubes block off the 28mm tubes with the Rubber Caps part #3 using the hose clamps #6 (BOV manual).



- (2) Temporarily attach intake tube I-8 assembly between the passenger side throttle body and I-7 using the 70mm hose #10 and hose clamps #11.

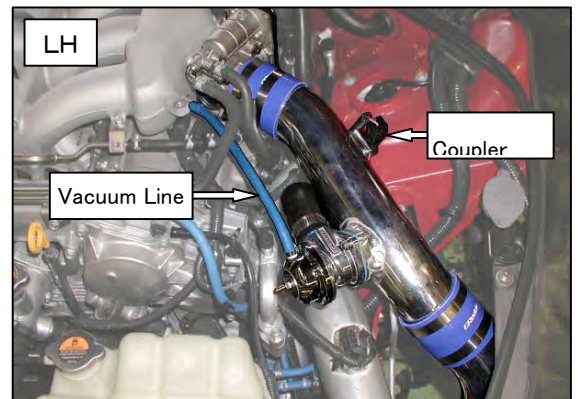
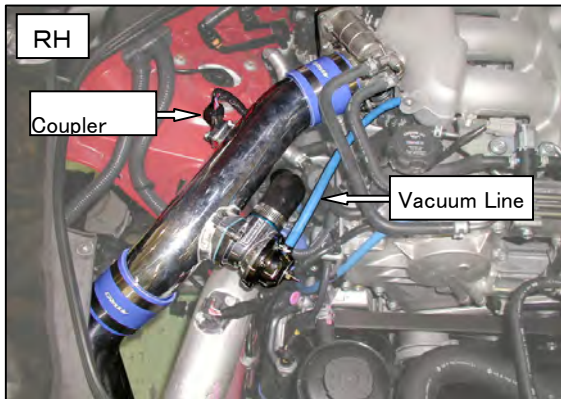


- (3) Temporarily attach intake tube I-4 assembly between the driver side throttle body and I-3 using the 70mm hose #10 and hose clamps #11.



3-5 Vacuum Line Attachment

- (1) Connect the 6mm vacuum lines from the vacuum source to the tops of the RZ Blow Off Valves. Connect the pressure sensor couplers to the pressure sensors.



- (2) Once you have adjusted the piping to the correct location and orientation, tighten all bolts and hose clamps.

- (3) Place the emblems on top of the Blow Off Valves.



3—6 Air Flow Sensor Extension Harness

- (1) Remove the coupler and the wiring clip of the Air Flow Sensors.
- (2) Cut the Air Flow Sensor Harnesses 2 inches from the Coupler. The Air Flow Sensor Harnesses will have to be crossed and hardwired via solder. Please use the supplied wiring Part #14.
- (3) The left and right Air Flow Sensor Harnesses will have to be redirected to the opposite sides.



※ **Be sure to properly solder the connections.**

※ **Make sure the connections are properly insulated with heat shrink tubing or electrical tape.**



- (4) We recommend that you secure any loose wires, preferably with zip ties.

3—7 Engine Start Up

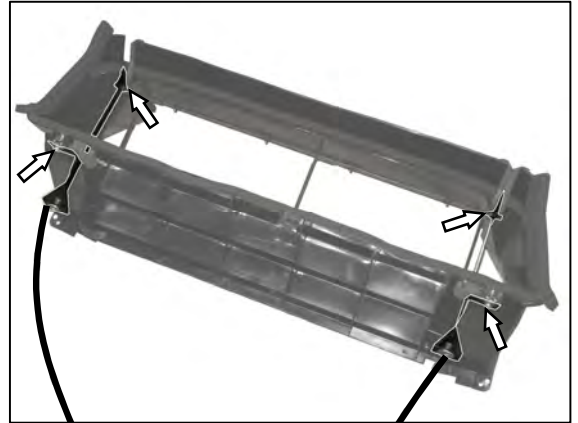
- (1) Check that all wiring has been completed/ connected, and make sure all tubing and hosing have been tightened. Once these have been inspected, connect the battery terminals.

※ **Make sure the Pedestrian Impact Sensor Harness is attached prior to reinstalling the battery. Otherwise a popup hood warning light will appear on your instrument panel.**

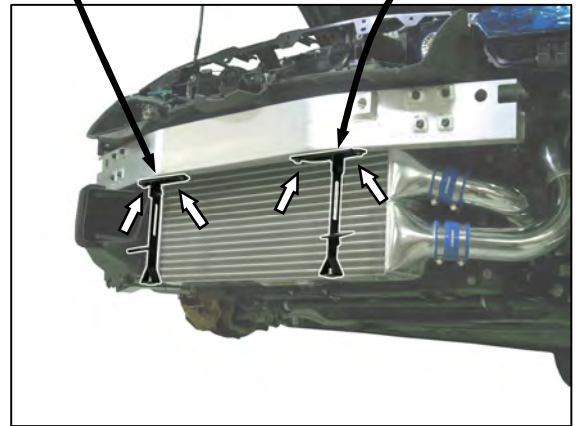
- (2) Check the vehicle for any leaks or noises at idle.

3-8 Front Bumper/ Fascia Installation

(1) Remove the front bumper bracket from the intake duct.



(2) Reinstall the bumper reinforcement and reuse the front bumper brackets.



(3) **Washer Tank (sold separately).**

※ Refer to washer tank installation manual.



(4) Front bumper/ fascia reinstallation.

※ **2-1 Follow pages 5-6 in reverse order.**



This completes the installation of the Intercooler

GRReddy

Adjustments After Installation

If irregular idle or engine stall occurs, loosen the M6 lock nut and turn the adjustment screw to HARD until the problem is eliminated. After the adjustment, tighten the lock nut to secure the setting.

※ The adjustment is preset to the softest position from factory. Do not turn it further out than this position.

※ Make sure to loosen the lock nut before making adjustment. Turning the adjusting screw without loosening the lock nut will strip out the top housing.

※ When the adjustment screw is turned in, the stock of the valve decreases. Screwing it in too far will affect the proper operation of the valve. When venting the outlet to the atmosphere, depending on the application, the airflow meter voltage can drop enough to stall the vehicle when the blow off valve is discharged. If adjustment of the top screw cannot prevent the engine stall, install e-Manage system and use the Anti Engine Stall feature or reroute the discharge outlet back into the intake system after the airflow meter.



Warning

If the engine stalls while operating the vehicle, the steering and the Brakes will not operate properly and can be very dangerous.