

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2015 NISSAN GT-R (R35) - Facelift OEM Service and Repair Workshop Manual

[Go to manual page](#)

RADIATOR

Unit: kPa (kg/cm², psi)

Leakage testing pressure	150 (1.53, 21.75)
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Sample

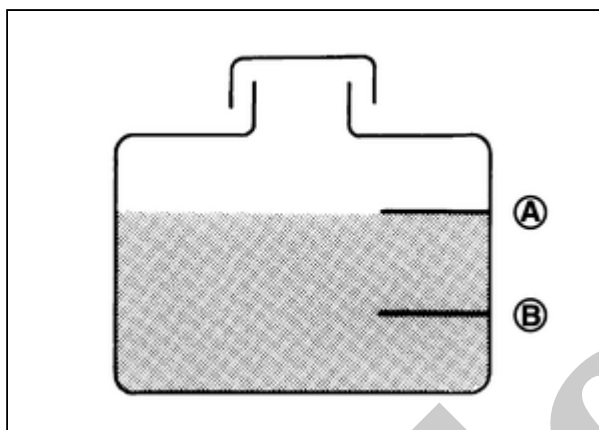
Troubleshooting Chart

SIEMD-6897973

Symptom			Check items	
Cooling system parts malfunction	Poor heat transfer	Water pump malfunction	—	
		Damaged fins	Dust contamination or paper clogging	
			Physical damage	
	Reduced air flow	Clogged radiator cooling tube	Excess foreign material (rust, dirt, sand, etc.)	
		Cooling fan does not operate	Fan assembly	
		High resistance to fan rotation		
		Damaged fan blades		
	Damaged radiator shroud		—	
	Improper coolant mixture ratio		—	
	Poor coolant quality		Coolant viscosity	
	Insufficient coolant	Coolant leakage	Cooling hose	Loose clamp
				Cracked hose
			Water pump	Poor sealing
			Radiator	O-ring for damage, deterioration or improper fitting
				Cracked radiator tank
				Cracked radiator core
			Reservoir tank	Cracked reservoir tank
Except cooling system parts malfunction	Blocked or restricted air flow	Blocked bumper	—	
		Blocked radiator grille	Installed car brassiere	
			Mud contamination or paper clogging	
		Blocked radiator	—	
		Blocked condenser	Blocked air flow	
		Installed large fog lamp		

COOLANT AMOUNT INSPECTION

- When coolant temperature is low (Approx. 50°C or less), check that the coolant level of reservoir tank is in the range between MIN and MAX.



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Ⓐ

: MAX

Ⓑ

: MIN

- Refill to adjust level if it is out of the range.

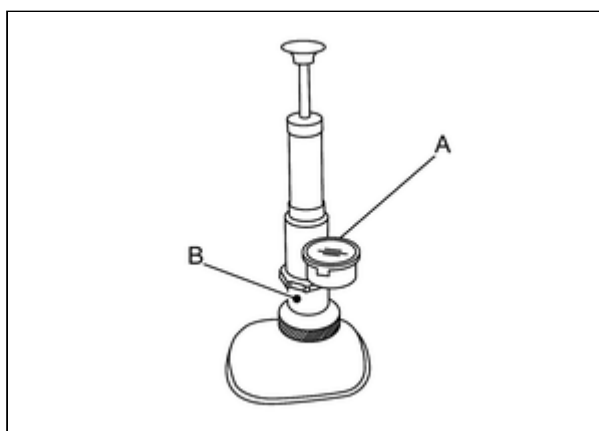
CAUTION:

- Refill NISSAN Genuine Super Long Life Coolant (blue) or equivalent. When refilling, use a product that is already diluted 50% of Super Long Life Coolant (blue).
- Never dilute with water.

- Check that the reservoir tank cap is surely tightened.

LEAKAGE CHECK

- Apply pressure to the cooling system using radiator cap tester (A) (commercial service tool). Check system for coolant leakage.



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Maximum pressure

: Refer to [RADIATOR : Service Data](#).**CAUTION:**

- Remove the reservoir tank cap when coolant temperature is low.
- Check the radiator for leakage when radiator is full.

- Use hose adapter (B) (commercial service tool) between radiator cap tester (A) (commercial service tool) and the filler neck not to deform the reservoir tank filler neck.
- Observe the pressurization limit to prevent radiator from damaging.

- If there is a malfunction, repair and replace applicable parts.

COOLANT HOSE INSPECTION

- Check visually that the cooling water hose is not twisted, broken or crushed for smooth water flow.

RADIATOR

CAUTION:

- Do not add additives such as water leak preventives that may clog the radiator cooling water channel.
- Refill NISSAN Genuine Super Long Life Coolant (blue) or equivalent. When refilling, use a product that is already diluted 50% of Super Long Life Coolant (blue).
- Never dilute with water.

DRAINING

WARNING:

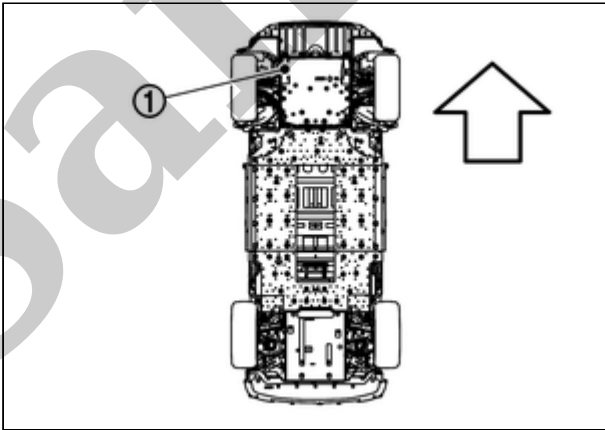
When coolant is hot, do not open reservoir tank cap and drain plug. Hot water may blow out and cause serious injury.

CAUTION:

- Be sure to drain when coolant temperature is cold.
- Work carefully so that coolant does not adhere to surrounding parts.
- If reservoir tank fluid level drops, do not set the vehicle in READY state.

Using drain hose

1 Remove front cover. Refer to [Exploded View](#).



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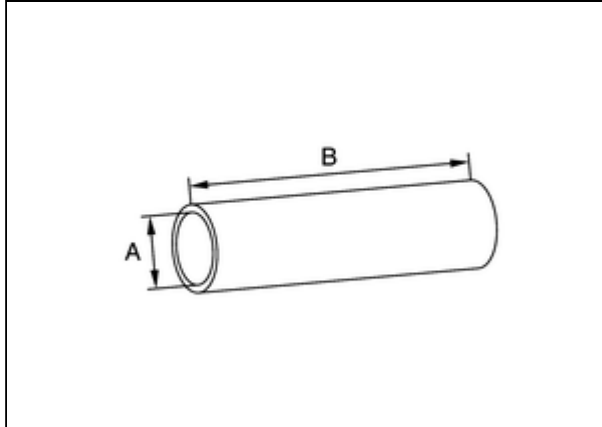
	: Vehicle front
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2 Install drain hose



NOTE:

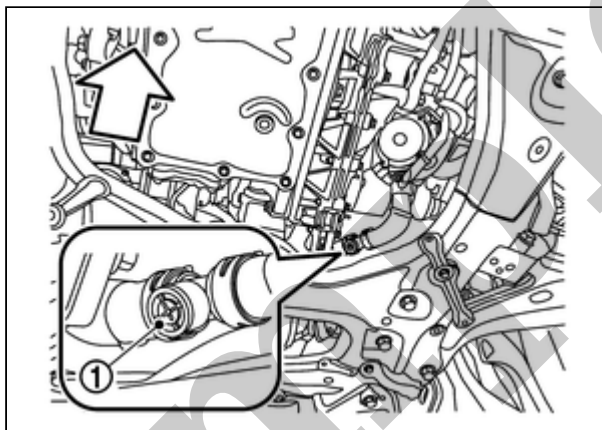
Use a general-purpose hose with the dimensions shown in the figure.



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A	: ϕ 22 mm (0.87 in)
B	: 145 mm (5.71 in)

3 Open radiator drain plug ① and drain coolant.



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	: Vehicle front
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4 Remove reservoir tank and drain coolant.

5 Remove drain hose

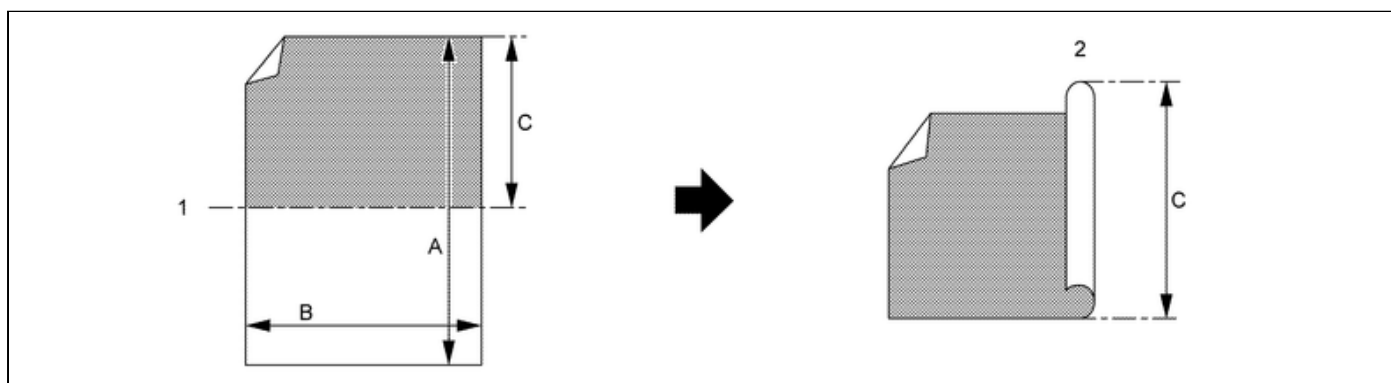
Using temporary pipe

1 Create temporary pipe by the following procedure.

a Prepare A4 size clear file holder or soft plastic plate.

i. Cut the clear file folder or plastic plate in half.

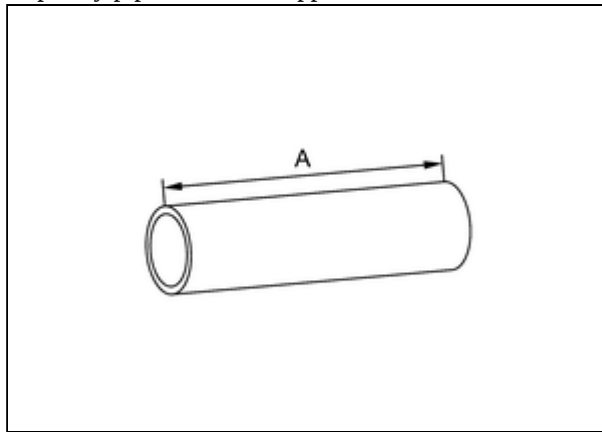
ii. Roll half of clear file folder or plastic plate to create a temporary pipe.



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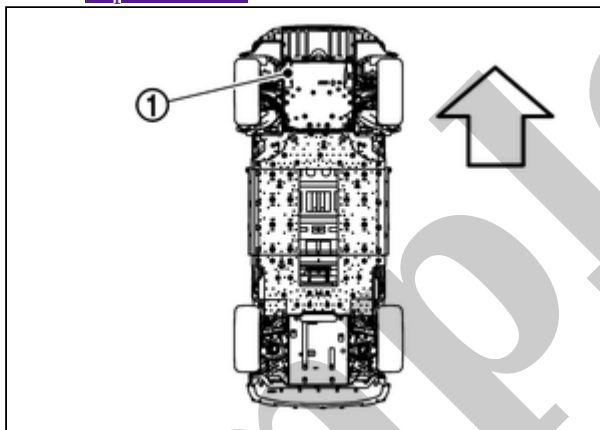
A	295 mm (11.61 in) approx.	B	210 mm (8.27 in) approx.	C	145 mm (5.71 in) approx.
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b Confirm that the length (A) of the temporary pipe is 145 mm approx.



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2 Remove front under cover rear ①. Refer to [Exploded View](#).



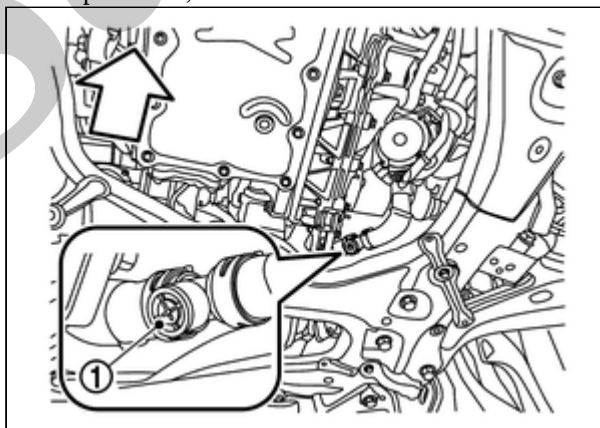
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: Vehicle front

3 Insert temporary pipe to radiator drain hole.

4 Remove drain plug ① and reservoir tank cap in order, then drain coolant.



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: Vehicle front

5 Remove reservoir tank and drain coolant.

6 Disconnect temporary pipe.

LI-ION BATTERY COOLING

CAUTION:

- Do not add additives such as water leak preventives that may clog the cooling water channel.
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- Never dilute with water.

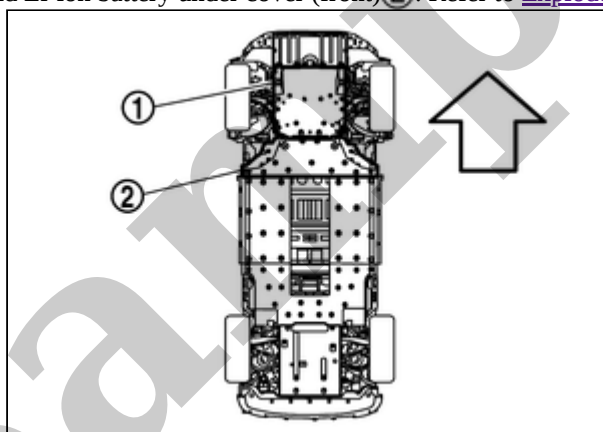
DRAINING**WARNING:**

When coolant is hot, do not open reservoir tank cap and drain plug. Hot water may blow out and cause serious injury.

CAUTION:

- Be sure to drain when coolant temperature is cold.
- Work carefully so that coolant does not adhere to surrounding parts.
- If reservoir tank fluid level drops, do not set the vehicle in READY state.

1 Remove front under cover rear ① and Li-ion battery under cover (front) ②. Refer to [Exploded View](#). and Refer to [Exploded View](#).

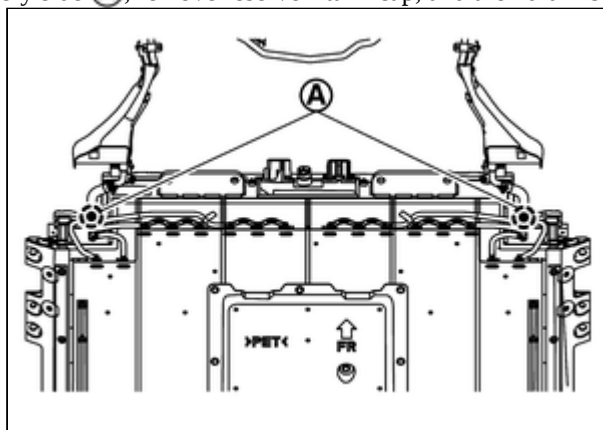


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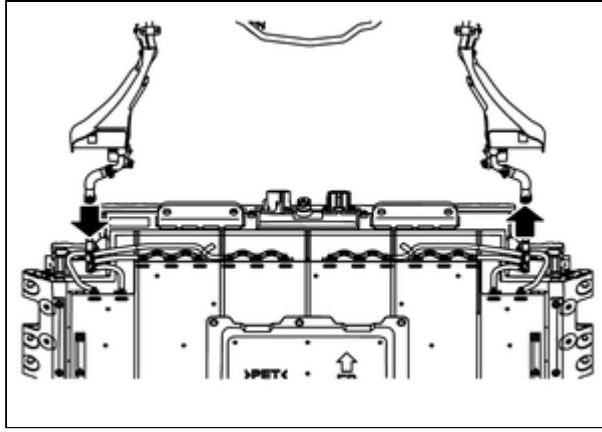
: Vehicle front

2 Disconnect water hose of Li-ion battery side (A), remove reservoir tank cap, and then drain coolant.



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3 Drain coolant completely by blowing air from ports shown by arrow mark ➡.



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4 Remove reservoir tank and drain coolant.

Sample