

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.

2016 NISSAN GT-R OEM Service and Repair Workshop Manual

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While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.



NOTE:

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

6. Check that the followings are not illuminated.

- Charging status indicator
- Electric parking brake warning lamp

7. Remove 12V battery terminal within 60 minutes after the power switch is turned OFF at Step 3.

CAUTION:

- **After all doors (including hood and back door) are closed, if a door (including hood and back door) is opened before battery terminals are disconnected, start over from Step 3.**
- **After turning the power switch OFF, if “Remote A/C” is activated by user operation, stop the air conditioner and start over from Step 3.**



NOTE:

Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the power switch.



NOTE:

If the power switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.



NOTE:

The removal of 12V battery may cause a DTC detection error.

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

PRECAUTIONS FOR SUPPLEMENTAL RESTRAINT SYSTEM (SRS) AIR BAG AND SEAT BELT PRE-TENSIONER : Precautions

RDE-001980059

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision.

Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.


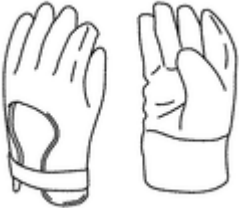



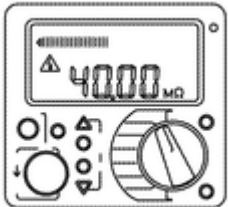
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition/power switch ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition/power switch OFF, disconnect the 12V battery or batteries, and wait at least 3 minutes before performing any service.

	Tool name	Usage
Insulated rubber gloves	 <p>RDE-001890694-01-MCIA0149ZZ</p>	Removing and installing high voltage components NOTE: For low voltage work up to 600 V
Leather gloves	 <p>RDE-001890694-02-PCIA0066ZZ</p>	Insulated rubber gloves protection
Insulated safety shoes	 <p>RDE-001890694-03-PCIA0011ZZ</p>	Removing and installing high voltage components NOTE: Withstand voltage: 500 V
Protective eyewear	 <p>RDE-001890694-04-PCIA0012ZZ</p>	Removing and installing high voltage components
Insulated helmet	 <p>RDE-001890694-05-PCIA0013ZZ</p>	Removing and installing high voltage components NOTE: Withstand voltage: 500 V
Insulated circuit tester	 <p>RDE-001890694-06-PCIA0014ZZ</p>	Measuring insulated resistance, voltage, and equipotential NOTE: Voltage : DC/AC 0 V – 600 V Insulated resistance : 500 V / 2000 MΩ Resistance resolution : 0.001 Ω

CAN SYSTEM (WITHOUT ProPILOT Assist 2.0)

Click link to [Wiring Diagram](#).

CAN SYSTEM (WITH ProPILOT Assist 2.0)

Click link to [Wiring Diagram](#).

Sample

1. CHECK CONNECTOR

1. Power switch OFF.
2. Disconnect the 12V battery cable from the negative terminal. Refer to [PRECAUTIONS FOR REMOVING BATTERY TERMINAL : Precautions.](#)
3. Check the following terminals and connectors for damage, bend and loose connection (unit side and connector side).
 - AV control unit
 - 8CH CAN gateway

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair the terminal and connector.

2. CHECK HARNESS CONTINUITY (OPEN CIRCUIT)

1. Disconnect the connector of 8CH CAN gateway.
2. Check the continuity between the 8CH CAN gateway harness connector terminals.

8CH CAN gateway harness connector			Continuity
Connector No.	Terminal No.		
M40	19	22	Existed
	20	23	Existed

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Check the harness and repair the root cause (IT CAN communication circuit side). Refer to [Diagnosis Procedure.](#)

3. CHECK HARNESS FOR OPEN CIRCUIT

1. Connect the connector of 8CH CAN gateway.
2. Disconnect the connector of AV control unit.
3. Check the resistance between the AV control unit harness connector terminals.

AV control unit harness connector			Resistance (Ω)
Connector No.	Terminal No.		
M51	50	70	Approx. 54 – 66

Is the measurement value within the specification?

YES>>

[GO TO 4.](#)

NO>>

Repair the AV control unit branch line.

4. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check the power supply and the ground circuit of the AV control unit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

Present error: Replace the AV control unit. Refer to [Removal & Installation](#).

YES>>

Past error: Error was detected in the AV control unit branch line.

NO>>

Repair the power supply and the ground circuit.

Sample

1. CHECK CONNECTOR

1. Power switch OFF.
2. Disconnect the 12V battery cable from the negative terminal. Refer to [PRECAUTIONS FOR REMOVING BATTERY TERMINAL : Precautions.](#)
3. Check the following terminals and connectors for damage, bend and loose connection (unit side and connector side).
 - ABS actuator and electric unit (control unit)
 - Harness connector B225
 - Harness connector M155
 - Harness connector M64
 - Harness connector E85

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair the terminal and connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect the connector of ABS actuator and electric unit (control unit).
2. Check the resistance between the ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit) harness connector			Resistance (Ω)
Connector No.	Terminal No.		
B2	5	19	Approx. 108 – 132

Is the measurement value within the specification?

YES>>

[GO TO 3.](#)

NO>>

Repair the ABS actuator and electric unit (control unit) branch line.

3. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check the power supply and the ground circuit of the ABS actuator and electric unit (control unit). Refer to [Diagnosis Procedure.](#)

Is the inspection result normal?

YES>>

Present error: Replace the ABS actuator and electric unit (control unit). Refer to [ABS ACTUATOR AND ELECTRIC UNIT \(CONTROL UNIT\) : Removal & Installation.](#)

YES>>

Past error: Error was detected in the ABS actuator and electric unit (control unit) branch line.

NO>>

Repair the power supply and the ground circuit.

Sample