

# 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.

## 2011 NISSAN GT-R (R35) OEM Service and Repair Workshop Manual

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Confirmation after repair: INSPECTION END

Sample

## 1. PERFORM SELF-DIAGNOSIS OF VCM

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 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is DTC detected other than P159C-96?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2](#)

## 2. CHECK ELECTRIC WATER PUMP 2 CIRCUIT

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Check electric water pump 2 circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#)

NO>>

Repair or replace error-detected parts.

## 3. PERFORM CONFIRMATION PROCEDURE AGAIN

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1. Erase DTC.

2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P159C-96 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

**DTC DETECTION LOGIC**

| DTC   |    | CONSULT screen terms | DTC detecting condition |   |
|-------|----|----------------------|-------------------------|---|
| P15B8 | 87 | Communication error  | Diagnosis condition     | Power switch ON                         |
|       |    |                      | Signal                  | CAN communication                       |
|       |    |                      | Threshold               | Signal from IPDM E/R cannot be received |
|       |    |                      | Detection time          | More than 2 seconds                     |

**POSSIBLE CAUSE**

- CAN communication circuit
- IPDM E/R
- VCM

**FAIL-SAFE**

Not applicable

## 1. PRECONDITIONING

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1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

**When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.**

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

**CAUTION:**

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

**If an operation is performed, wait an additional 5 minutes from that time.**

- **Check that 12V battery voltage is 11 V or more.**

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[GO TO 2](#) .

## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 With CONSULT

1. Power switch ON and wait for at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

## 1. CHECK CAN COMMUNICATION CIRCUIT

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Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

[GO TO 2](#)

NO>>

Repair or replace error-detected parts.

## 2. CHECK DTC

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 With CONSULT

Check self-diagnostic result in “IPDM E/R”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 3](#)

## 3. TROUBLE CAUSE SIMULATION TEST

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Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

Is the inspection result normal?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

Repair or replace error-detected parts.

**DTC DETECTION LOGIC**

| DTC   |    | CONSULT screen terms | DTC detecting condition |  |
|-------|----|----------------------|-------------------------|--|
| P1630 | 63 | Electric water pump  | Diagnosis condition     | Power switch ON  |
|       |    |                      | Signal                  | Electric water pump 2 signal                                 |
|       |    |                      | Threshold               | A communication error with electric water pump 2 is detected |
|       |    |                      | Detection time          | —  |

**POSSIBLE CAUSE**

- Harness and connector (Electric water pump 2 signal circuit)
- Electric water pump 2

**FAIL-SAFE**

Not applicable

## 1. PRECONDITIONING

---

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

**When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.**

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

**CAUTION:**

- Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.

**If an operation is performed, wait an additional 5 minutes from that time.**

- Check that 12V battery voltage is 11 V or more.

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[GO TO 2](#) .

## 2. PERFORM DTC CONFIRMATION PROCEDURE-1

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 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO>>

[GO TO 3](#)

## 3. PERFORM DTC CONFIRMATION PROCEDURE-2

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 With CONSULT

1. Set the vehicle to READY and wait at least 60 seconds.
2. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).



NO-2>>

Confirmation after repair: INSPECTION END

Sample

## 1. PERFORM SELF-DIAGNOSIS OF VCM

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 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is DTC detected other than P1630-63 again?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2](#)

## 2. CHECK ELECTRIC WATER PUMP 2 CIRCUIT

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Check electric water pump 2 circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#)

NO>>

Repair or replace error-detected parts.

## 3. PERFORM CONFIRMATION PROCEDURE AGAIN

---

1. Erase DTC.

2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P1630-63 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END