

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 Primera Sedan OEM Service and Repair Workshop Manual

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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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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

**NOTE:**

Although it is possible that the status of this DTC is displayed as 1t, if the DTC is detected after confirmation procedure, continue to perform the diagnosis procedure.

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-1>>

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

NO-2>>

Confirmation after repair: INSPECTION END

1. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P1613-49 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P161C	49	Internal circuit error	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An internal error in the VCM is detected.
			Detection time	—

POSSIBLE CAUSE

VCM

FAIL-SAFE

- Traction motor output is limited
- Quick charge is prohibited
- Normal charge is prohibited
- Traction motor output is cut
- High-voltage system is normally stopped
- High-voltage system is suddenly stopped
- A/C control is stopped

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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-1>>

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

NO-2>>

Confirmation after repair: INSPECTION END

1. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P161C-49 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P161C	F1	Internal circuit error	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An internal error in the VCM is detected.
			Detection time	More than 2 seconds

POSSIBLE CAUSE

VCM

FAIL-SAFE

- Traction motor output is limited
- Quick charge is prohibited
- Normal charge is prohibited
- Traction motor output is cut
- High-voltage system is normally stopped
- High-voltage system is suddenly stopped
- A/C control is stopped

1. PRECONDITIONING

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

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2. PERFORM DTC CONFIRMATION PROCEDURE

 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-1>>

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

NO-2>>

Confirmation after repair: INSPECTION END

1. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P161C-F1 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2165	57	CAN communication error sonar	Diagnosis condition	—
			Signal	—
			Threshold	MAC communication error
			Detection time	—

POSSIBLE CAUSE

- MAC communication error
- VCM used in other vehicles is installed in the vehicle
- VCM
- Sonar C/U

FAIL-SAFE

Not applicable