

Your Ultimate Source for OEM Repair Manuals

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2010 NISSAN Quest 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

1. Power switch ON and wait 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 DTC PRIORITY

If DTC P0560-16 is displayed with P2504-21, first perform the trouble diagnosis for P2504-21.

Is applicable DTC detected?

YES>>

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

NO>>

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2. CHECK DC/DC CONVERTER SELF-DIAGNOSIS

 With CONSULT

Check "Self-diagnosis result" in "DC/DC converter".

Is DTC detected?

YES>>

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

NO>>

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3. CHECK VCM POWER SUPPLY CIRCUIT

Check VCM power supply circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Repair or replace error-detected parts.

4. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P0560-16 detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0560	17	System voltage	Diagnosis condition	Always
			Signal	12 V battery power supply signal (terminal number 153)
			Threshold	12 V battery power supply signal is detected to be more than 16 V
			Detection time	More than 0.1 seconds

POSSIBLE CAUSE

- DC/DC converter
- Harness and connector (12 V battery power supply circuit)
- VCM

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

 With CONSULT

1. Power switch ON and wait 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 DTC PRIORITY

If DTC P0560-17 is displayed with P2504-22, first perform the trouble diagnosis for P2504-22.

Is applicable DTC detected?

YES>>

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

NO>>

[GO TO 2](#) .

2. CHECK DC/DC CONVERTER SELF-DIAGNOSIS

 With CONSULT

Check "Self-diagnosis result" in "DC/DC converter".

Is DTC detected?

YES>>

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

NO>>

[GO TO 3](#) .

3. CHECK VCM POWER SUPPLY CIRCUIT

Check VCM power supply circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 4](#) .

NO>>

Repair or replace error-detected parts.

4. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P0560-17 detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0560	22	System voltage	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	The power supply voltage is more than a certain value higher than the IPDM E/R target voltage
			Detection time	More than 20 seconds

POSSIBLE CAUSE

- DC/DC converter
- Harness and connector (VCM power supply circuit)
- VCM

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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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Turn power switch ON and wait 30 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 DTC PRIORITY

If DTC P0560-22 is displayed with P2504-21 and P2504-22, first perform the trouble diagnosis for P2504-21 and P2504-22.

Is applicable DTC detected?

YES>>

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

NO>>

[GO TO 2](#) .

2. CHECK DC/DC CONVERTER SELF-DIAGNOSIS

 With CONSULT

Check "Self-diagnosis result" in "DC/DC converter".

Is DTC detected?

YES>>

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

NO>>

[GO TO 3](#) .

3. CHECK VCM POWER SUPPLY CIRCUIT

Check VCM power supply circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 4](#) .

NO>>

Repair or replace error-detected parts.

4. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

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

Is DTC P0560-22 detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0560	61	System voltage	Diagnosis condition	Always
			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