

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.

2014 Nissan NV200 Service and Repair Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1ABB	48	Low voltage output voltage	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	An error in the DC/DC converter internal system is detected.
			Detection time	1 second

POSSIBLE CAUSE

DC/DC converter

FAIL-SAFE

DC/DC converter output is stopped

Sample

1. PRECONDITIONING

- Press the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

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

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY and wait at least 1 second.
3. Check “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.

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 DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P1ABB-48 detected again?

YES>>

Replace DC/DC converter. Refer to [DC/DC CONVERTER : Disassembly & Assembly](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1ABB	49	Low voltage output voltage	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	An error in the DC/DC converter internal system is detected.
			Detection time	1 second

POSSIBLE CAUSE

DC/DC converter

FAIL-SAFE

Not applicable

Sample

1. PRECONDITIONING

- Press the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

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

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY and wait at least 1 second.
3. Check “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.

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 DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P1ABB-49 detected again?

YES>>

Replace DC/DC converter. Refer to [DC/DC CONVERTER : Disassembly & Assembly](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1ABC	16	High voltage input voltage	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	The input voltage to the DC/DC converter is below 215 V
			Detection time	1 second

POSSIBLE CAUSE

- ECU related to EV system
- High voltage harness
- DC/DC converter

FAIL-SAFE

DC/DC converter output is stopped

1. PRECONDITIONING

- Press the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

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

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY.
3. Check the displayed “INPUT VOLTAGE” in the “DATA MONITOR” of “DC/DC CONVERTER” using CONSULT.

Is it below 215 V?

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

WARNING:

Hybrid vehicles and electric vehicles equipped with high voltage batteries may cause an electric shock or a short circuit if handled in an inappropriate way. When you inspect and service a vehicle, follow the work procedure and perform the correct tasks.


WARNING:

- When you inspect and service the high voltage wiring harnesses and components, make sure to remove the service plug in order to shut off the high voltage circuit.
- When you have removed the service plug, be sure to carry it in your pocket, or store it in the tool box in order to keep someone from accidentally connecting it during work.
- When performing high voltage system operation, be sure to wear insulating protective equipment.
- During tasks involving high voltage systems, clarify a person in charge of the tasks and do not let others touch the vehicle. When the vehicle is not being serviced, use protective items such as an electric-proof cover sheet for covering the high voltage components so as to keep someone from accidentally touching the vehicle.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

Setting the vehicle to the READY state with the service plug removed may cause malfunctioning. Avoid setting the vehicle to the READY state unless otherwise specified in the service manual.

1. CHECK DTC RELATED TO HIGH VOLTAGE SYSTEM

 With CONSULT

1. Set the vehicle to READY and wait for at least 120 seconds.
2. Check DTC related to high voltage system using CONSULT.

Is DTC related to high voltage system detected?

YES>>

Check the detected DTC.

NO>>

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2. PRECONDITIONING

WARNING:

Make sure to perform the procedure below before starting the work.

1. Disconnect the high voltage circuit. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).
2. Check the voltage in the high voltage circuit. Refer to [CHECK VOLTAGE IN HIGH VOLTAGE CIRCUIT : Precautions](#).

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