

# 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 NV3500 HD Service and Repair Manual

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## 8. CHECK 12V BATTERY CIRCUIT

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1. Disconnect battery terminal integrated fusible link harness connector.
2. Disconnect DC/DC converter harness connector.
3. Check for continuation between battery terminal integrated fusible link and DC/DC converter.

Battery terminal integrated fusible link		DC/DC converter		Continuity
Connector	Terminal	Connector	Terminal	
H3	9	H4	7	Existing

4. Also check harness for short to ground.

Is the inspection result normal?

YES>>

Check 12V battery power supply circuit.

NO>>

Repair or replace error-detected parts.

Sample

**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
P1AC1	F0	Low voltage reverse current	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 current is stopped

## 1. PRECONDITIONING

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- 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

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 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

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 With CONSULT

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

Is DTC P1AC1-F0 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	
P1AC1	F1	Low voltage reverse current	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 current is stopped

## 1. PRECONDITIONING

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- 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.

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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 P1AC1-F1 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	
P1AC1	F2	Low voltage reverse current	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	An error in the DC/DC converter internal system is detected.
			Detection time	2 seconds

**POSSIBLE CAUSE**

DC/DC converter

**FAIL-SAFE**

DC/DC converter output current is stopped

## 1. PRECONDITIONING

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- 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

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 With CONSULT

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