

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 Altima (Thailand) 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 OFF.
2. Connect the quick charger coupler to the quick charge port.
3. Perform quick charge (charging using the quick charger) for at least 30 seconds.
4. Power switch ON and wait at least 10 seconds.
5. 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 P102C-01 is displayed with P0D0A-11/12/13 or P0D11-11/12/13 (any of them), first perform the trouble diagnosis for P0D0A-11/12/13 or P0D11-11/12/13.

Is applicable DTC detected?

YES>>

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

NO>>

GO TO 2.

2. CHECK QUICK CHARGE RELAY 1 AND 2 CIRCUITS-1

1. Power switch OFF.
2. Disconnect VCM harness connector and Li-ion battery harness connector.
3. Check for continuation of harness between VCM harness connector and Li-ion battery harness connector.

+		-		Continuation
VCM		Li-ion battery		
Connector	Terminal	Connector	Terminal	Existing
E47	91	E9	2	
	92		8	

4. Also check harness for short to power supply and for short to ground.

Is the inspection result normal?

YES>>

[GO TO 3](#) .

NO>>

Repair or replace error-detected parts.

3. CHECK QUICK CHARGE RELAY 1 AND 2 CIRCUITS-2

Check quick charge relay 1 and 2 circuits. Refer to [Diagnosis Procedure](#)(66kWh LI-ION BATTERY), [Diagnosis Procedure](#)(91kWh LI-ION BATTERY).

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 P102C-01 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U214F	82	CAN communication error (BCM)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none">CAN communication signalDrivetrain CAN communication 2 circuit signal
			Threshold	CAN signal is stuck
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 20 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

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

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U214F	86	CAN communication error (BCM)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none">CAN communication signalDrivetrain CAN communication 2 circuit signal
			Threshold	CAN signal is transformed
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

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Confirmation after repair: INSPECTION END

1. CHECK CAN COMMUNICATION CIRCUIT

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Is the inspection result normal?

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INSPECTION END

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Sample