

# 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.

## 2012 NISSAN Altima (Thailand) OEM Service and Repair Workshop Manual

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## 1. CHECK CAN COMMUNICATION CIRCUIT

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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	
U2247	86	Controller area network communication error (electric shift)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none"> <li>CAN communication signal</li> <li>Drivetrain CAN communication 2 circuit signal</li> </ul>
			Threshold	CAN signal is transformed
			Detection time	2 seconds

## POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 1 circuit

## FAIL-SAFE

Not applicable

## 1. PRECONDITIONING

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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

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 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

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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	
U2342	82	Controller area network communication error (Inverter motor generator/motor generator)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none"><li>CAN communication signal</li><li>EV system CAN 1 circuit signal</li></ul>
			Threshold	CAN signal is stuck
			Detection time	2 seconds

**POSSIBLE CAUSE**

- CAN communication circuit
- EV system CAN 1 circuit

**FAIL-SAFE**

Not applicable

## 1. PRECONDITIONING

---

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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2. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

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NO-2>>

Confirmation after repair: INSPECTION END

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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



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DTC		CONSULT screen terms	DTC detecting condition	
U2342	86	Controller area network communication error (Inverter motor generator/motor generator)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none"> <li>CAN communication signal</li> <li>EV system CAN 1 circuit signal</li> </ul>
			Threshold	CAN signal is transformed
			Detection time	2 seconds

**POSSIBLE CAUSE**

- CAN communication circuit
- EV system CAN 1 circuit

**FAIL-SAFE**

Not applicable

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Confirmation after repair: INSPECTION END