

# Your Ultimate Source for OEM Repair Manuals

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## 2011 NISSAN Murano OEM Service and Repair Workshop Manual

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## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P3194	87	Communication error	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	Abnormalities in each of the wheel rotation sensor signals that is received from the ABS actuator and electric unit (control unit) are detected
			Detection time	—

## POSSIBLE CAUSE

- CAN communication circuit
- ABS actuator and electric unit (control unit)
- VCM

## FAIL-SAFE

Cruse control (ProPILOT Assist/ProPILOT Assist 2.0) operation prohibited

## 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 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 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>>

[GO TO 2](#) .

NO>>

Repair or replace error-detected parts.

## 2. CHECK DTC

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 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is CAN error other than DTC P3194-87 (excluding U1000) detected?

YES>>

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NO>>

Check brake control system. Refer to [Work Flow](#).

## 3. REPLACE VCM

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 With CONSULT

1. Replace VCM. Refer to [VCM : Removal & Installation](#).
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P3194-87 detected again?

YES>>

Replace ABS actuator and electric unit (control unit). Refer to [ABS ACTUATOR AND ELECTRIC UNIT \(CONTROL UNIT\): Removal & Installation](#).

NO>>

INSPECTION END

## DTC DETECTION LOGIC

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DTC		CONSULT screen terms	DTC detecting condition	
U0273	87	Communication error	Diagnosis condition	Power switch ON
			Signal	LIN communication signal (charging status indicator)
			Threshold	Communication error with with charging status indicator is detected
			Detection time	More than 4 seconds

## POSSIBLE CAUSE

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- LIN communication line (circuit between charging status indicator and VCM)
- Charging status indicator
- VCM

## FAIL-SAFE

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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 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 LIN COMMUNICATION LINE

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1. Power switch OFF.
2. Disconnect VCM harness connector and charging status indicator connector.
3. Check for continuation between VCM harness connector and charging status indicator connector.

+		-		Continuation
VCM		Charging status indicator		
Connector	Terminal	Connector	Terminal	
E47	41	M28	2	Existing

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

## 2. REPLACE CHARGING STATUS INDICATOR

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1. Replace charging status indicator. Refer to [CHARGING STATUS INDICATOR : Removal & Installation](#).
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC U0273-87 detected again?

YES>>

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

NO>>

INSPECTION END

**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
U2357	04	Controller area network communication error (Direct current direct current)	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	An error signal from DC/DC converter is received
			Detection time	More than 2 seconds

**POSSIBLE CAUSE**

- CAN communication circuit
- DC/DC converter

**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

---

 With CONSULT

1. Power switch ON and wait at least 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 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>>

[GO TO 2](#)

NO>>

Repair or replace error-detected parts.

## 2. CHECK DC/DC CONVERTER

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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. REPLACE DC/DC CONVERTER

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1. Replace DC/DC converter. Refer to [DC/DC CONVERTER : Disassembly & Assembly](#).
2. Power switch ON and erase DTC.
3. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC U2357-04 detected again?

YES>>

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

NO>>

INSPECTION END