

# 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 Skyline Sedan OEM Service and Repair Workshop Manual

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## 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 1 minute.
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>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0657	11	Actuator supply voltage B	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	A short to ground in the relay circuit is detected
			Detection time	—

POSSIBLE CAUSE

- Harness and connector (The relay circuit is shorted to ground)
- Relay

FAIL-SAFE

Not applicable

## 1. PRECONDITIONING

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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 12V MAIN RELAY CIRCUIT

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Check 12V main relay circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

## 2. PERFORM CONFIRMATION PROCEDURE AGAIN

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1. Erase DTC.

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

Is DTC P0657-11 detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0657	12	Actuator supply voltage B	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	A short to power supply in the relay circuit is detected
			Detection time	—

POSSIBLE CAUSE

- Harness and connector (The relay circuit is shorted to power supply)
- Relay

FAIL-SAFE

Not applicable

## 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 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 12V MAIN RELAY CIRCUIT

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Check 12V main relay circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2](#) .

NO>>

Repair or replace error-detected parts.

## 2. PERFORM CONFIRMATION PROCEDURE AGAIN

---

1. Erase DTC.

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

Is DTC P0657-12 detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0657	13	Actuator supply voltage B	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An opening in the relay circuit is detected
			Detection time	—

POSSIBLE CAUSE

- Harness and connector (The relay circuit is open)
- Relay

FAIL-SAFE

Not applicable