

Your Ultimate Source for OEM Repair Manuals

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2010 NISSAN Skyline Sedan OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15F0	13	Charge port lid	Diagnosis condition	Always
			Signal	Charge port lid actuator (+) signal
			Threshold	An opening in the charge port lid actuator (+) signal circuit is detected
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Harness and connector (The charge port lid actuator (+) signal circuit is open)
- Charge port lid actuator

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 CHARGE PORT LID ACTUATOR CIRCUIT

Check charge port lid actuator circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

2. CHECK VCM OUTPUT SIGNAL

1. Reinstall removed parts and connectors.

2. Check the output signals at VCM connector terminal number 74 and terminal number 85. Refer to [Physical Values](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15FB	01	Charging system	Diagnosis condition	During quick charge
			Signal	CAN communication
			Threshold	<ul style="list-style-type: none"> Quick charge voltage sensor output value exceeds the maximum specified value Quick charge voltage sensor output value is below the minimum specified value
			Detection time	More than 0.3 seconds

POSSIBLE CAUSE

- Battery junction box
- VCM

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited

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 10 minutes.
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 CAN COMMUNICATION CIRCUIT

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

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

2. PERFORM SELF-DIAGNOSIS OF LBC

Check self-diagnostic result in “HVBATTERY”.

Is DTC detected?

YES>>

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

NO>>

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3. TROUBLE CAUSE SIMULATION TEST

Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

Is the inspection result normal?

YES>>

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

NO>>

Repair or replace error-detected parts.

DTC Description

DTC		CONSULT screen terms	DTC detecting condition	
P1605	63	Charging system	Diagnosis condition	During quick charge
			Signal	PLC communication signal
			Threshold	CPLC communication with the charging station is not successful.
			Detection time	60 seconds

POSSIBLE CAUSE

- Power supply environment (Charging device)
- CPLC
- Harness and connector (CPLC circuit is open or shorted)
- VCM
- On-board charger

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited

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. Erase self-diagnostic result in “EV/HEV” using CONSULT.
2. Perform quick charge for at least 120 seconds.
3. Check self-diagnostic result in “EV/HEV” 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 NORMAL CHARGE

Normal charge is performed.

Is the normal charge performed normally?

YES>>

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NO>>

Perform Confirmation Procedure after repairing a problem related to the normal charge. Refer to [Diagnosis Procedure](#).

2. CHECK QUICK CHARGER HARNESS

Check quick charger harness.

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

3. CHECK QUICK CHARGER

Check quick charger for any malfunction.



NOTE:

Refer to the instruction manual of the used quick charger.

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

4. PERFORM SELF-DIAGNOSIS OF CPLC

 With CONSULT

1. Power switch ON
2. Check self-diagnostic result in “CALCULATOR POWER LINE COMMUNICATION”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC.