

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.

2014 NISSAN Skyline Sedan OEM Service and Repair Workshop Manual

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1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” and “EV/HEV” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12 V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.
2. Perform normal charge for at least 120 seconds.
3. Set the vehicle to READY and wait for at least 2 seconds.
4. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” 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. CHECK DTC RELATED TO HIGH VOLTAGE COOLING SYSTEM

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

Is DTC detected?

YES>>

Inspect items of detected DTC. Refer to [DTC Index](#).

NO>>

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2. HIGH VOLTAGE COOLING SYSTEM INSPECTION

Inspect high voltage cooling system for coolant amount and leakage. Refer to [COOLANT : Inspection](#).

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

3. CHECK ON-BOARD CHARGER OPERATION

 With CONSULT

1. Perform normal charge when the battery charging status (SOC) is of a low status and wait for at least 1 hour.
2. Power switch ON.
3. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.

Is DTC P1C50-4B detected again?

YES>>

Replace On-board charger. Refer to [ON-BOARD CHARGER : Disassembly & Assembly](#).

NO>>

Perform inspection for the other high power parts.

DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detecting condition | |
|-------|----|----------------------|-------------------------|---|
| P1C63 | 97 | AC connector error | Diagnosis condition | READY, power switch ON or AUTO ACC |
| | | | Signal | — |
| | | | Threshold | When an AC connector engagement error is detected |
| | | | Detection time | 300 ms |

POSSIBLE CAUSE

- On-board charger
- Charge port harness connector

FAIL-SAFE

Normal charge is stopped

1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait at least 10 seconds.
2. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” 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

WARNING:

Hybrid vehicles and electric vehicles equipped with high voltage batteries may cause an electric shock or a short circuit if handled in an inappropriate way. When you inspect and service a vehicle, follow the work procedure and perform the correct tasks.

WARNING:

- When you inspect and service the high voltage wiring harnesses and components, make sure to remove the service plug in order to shut off the high voltage circuit.
- When you have removed the service plug, be sure to carry it in your pocket, or store it in the tool box in order to keep someone from accidentally connecting it during work.
- When performing high voltage system operation, be sure to wear insulating protective equipment.
- During tasks involving high voltage systems, clarify a person in charge of the tasks and do not let others touch the vehicle. When the vehicle is not being serviced, use protective items such as an electric-proof cover sheet for covering the high voltage components so as to keep someone from accidentally touching the vehicle.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

Setting the vehicle to the READY state with the service plug removed may cause malfunctioning. Avoid setting the vehicle to the READY state unless otherwise specified in the service manual.

1. PRECONDITIONING

WARNING:

1. Disconnect high voltage circuit. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).
2. Check voltage in high voltage circuit. Refer to [CHECK VOLTAGE IN HIGH VOLTAGE CIRCUIT : Precautions](#).

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2. CHECK HIGH VOLTAGE HARNESS CONNECTOR INSTALLATION CONDITION

Check On-board charger high voltage harness connector installation condition visually and tactually.

CAUTION:

When reconnecting the high voltage harness connector, insert it slowly and directly.

Is the inspection result normal?

YES>>

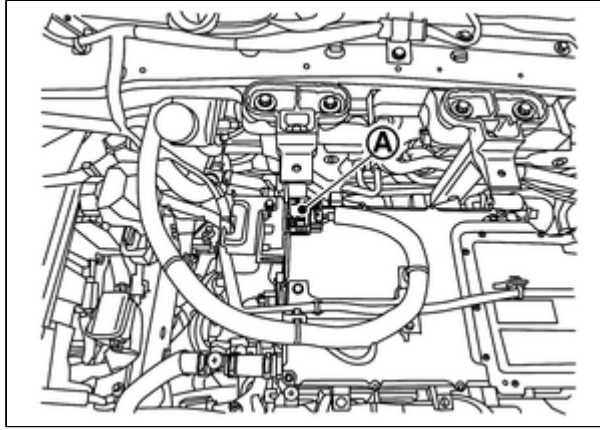
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NO>>

Repair or replace error-detected parts.

3. CHECK HIGH VOLTAGE HARNESS CONNECTOR

1. Disconnect On-board charger high voltage harness connector (A).



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2. Check On-board charger high voltage harness connector and connector on the On-board charger side visually and tactually for abnormalities.

Is the inspection result normal?

YES>>

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NO>>

Replace error-detected parts.

4. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Securely reconnect the high voltage harness.
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P1C63-97 detected again?

YES>>

Replace On-board charger. Refer to [ON-BOARD CHARGER : Disassembly & Assembly](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detecting condition | |
|-------|----|----------------------|-------------------------|------------------------------------|
| P1C61 | 82 | Communication error | Diagnosis condition | READY, power switch ON or AUTO ACC |
| | | | Signal | CAN communication signal |
| | | | Threshold | When an error signal is detected |
| | | | Detection time | Max 4.5 seconds |

POSSIBLE CAUSE

Harness and connector (CAN communication line is open or shorted)

FAIL-SAFE

Normal charge is stopped

Sample

1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE”, “EV/HEV”, “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12 V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” 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 SELF-DIAGNOSIS OF VCM

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “EV/HEV” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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2. PERFORM SELF-DIAGNOSIS OF LBC

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P1C61-82 detected again?

YES>>

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

NO>>

INSPECTION END