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2010 NISSAN Sunny OEM Service and Repair Workshop Manual

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NO>>

GO TO 5.

5. CHECK CPLC

Perform CPLC inspection. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace VCM. Refer to VCM : Removal & Installation.

NO>>

Repair or replace error-detected parts.

SIEMD-7197230

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P163E	62	Charging system	Diagnosis condition	During quick charge
			Signal	—
			Threshold	The actual current deviates more than 3 A from the current command value
			Detection time	More than 10 seconds

POSSIBLE CAUSE

- Quick charger
- Charge port
- CPLC
- VCM

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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GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Turn 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 60 seconds.
4. Stop quick charge and wait for 10 seconds.
5. Turn power switch ON and wait for 10 seconds.
6. 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

SIEMD-7197232

1. PERFORM CONFIRMATION PROCEDURE AGAIN

With CONSULT

1. Turn power switch ON.
2. Erase DTC.
3. Turn power switch OFF.
4. Perform DTC confirmation procedure again with a different quick charger than the quick charger that was used when performing the DTC confirmation procedure the previous time. Refer to Confirmation Procedure.

Is DTC detected again?

YES>>

GO TO 2.

NO>>

INSPECTION END (Quick charger malfunction)

2. PERFORM SELF-DIAGNOSIS OF CPLC

With CONSULT

Perform self-diagnosis of CPLC.

Is DTC detected?

YES>>

Check the DTC. Refer to DTC Index.

NO>>

GO TO 3.

3. CHECK CHARGE PORT

1. Turn power switch OFF.
2. Disconnect charge port harness connector.
3. Check the charge port. Refer to Component Inspection.

Is the inspection result normal?

YES>>

GO TO 4.

NO>>

Replace charge port. Refer to CHARGE PORT : Removal & Installation.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to Intermittent Incident.

Is the inspection result normal?

YES>>

Replace VCM. Refer to VCM : Removal & Installation.

NO>>

Repair or replace error-detected parts.

SIEMD-7486927

DTC Description

DTC		CONSULT screen terms	DTC detecting condition	
P163F	94	Charging system	Diagnosis condition	During quick charge
			Signal	PLC communication signal
			Threshold	No interchangreabily with charging station
			Detection time	—

POSSIBLE CAUSE

Power supply environment (Charging device)

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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GO TO 2.

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. CHECK CHARGING DEVICE

Listen to the power supply environment (charging device) that detected DTC from the customer, charge again.

NOTE:
If the customer's vehicle cannot be charged with the power supply environment (charging device) that detected DTC, explain to the customer that the power supply environment (charging device) may not be used to charge the customer's vehicle.

Is DTC detected?

YES>>

Explain to the customer that the power supply environment (charging device) used may not be used for charging the customer's vehicle.

NO>>

INSPECTION END

SIEMD-7197233

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1647	62	Charging system	Diagnosis condition	During quick charge
			Signal	—
			Threshold	The voltage of the charger does not rise before the quick charge relay is switched ON
			Detection time	More than 40 seconds

POSSIBLE CAUSE

- Quick charger
- Charge port
- CPLC
- VCM

FAIL-SAFE

Not applicable