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2011 NISSAN Leaf OEM Service and Repair Workshop Manual

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DTC Diagnosis Procedure

SIEMD-7197250

1. CHECK CAN COMMUNICATION CIRCUIT

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. PERFORM SELF-DIAGNOSIS OF BCM

With CONSULT

Check self-diagnostic result in “BCM”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to DTC Index.

NO>>

INSPECTION END

SIEMD-7197251

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1678	81	Communication error	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	An abnormal driver seat seat belt buckle signal from BCM is received
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- BCM

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.**

>>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Power switch OFF.
3. Power switch ON and wait at least 10 seconds.
4. 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

DTC Diagnosis Procedure

SIEMD-7197253

1. CHECK CAN COMMUNICATION CIRCUIT

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. PERFORM SELF-DIAGNOSIS OF BCM

With CONSULT

Check self-diagnostic result in “BCM”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to DTC Index.

NO>>

INSPECTION END

SIEMD-7197254

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1679	81	Communication error	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	An abnormal driver seat seat belt buckle malfunction signal from BCM is received
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- BCM

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.**

>>

GO TO 2 .

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

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. PERFORM SELF-DIAGNOSIS OF BCM

With CONSULT

Check self-diagnostic result in “BCM”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to DTC Index.

NO>>

INSPECTION END

SIEMD-7197299

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1693	49	Communication error	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	An internal error signal from Li-ion battery controller 1 is received
			Detection time	—

POSSIBLE CAUSE

- CAN communication circuit
- LBC
- VCM

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited
- Traction motor output is cut

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.**

>>

GO TO 2 .

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