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2011 NISSAN XTerra OEM Service and Repair Workshop Manual

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SIEMD-7196855

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 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

SIEMD-7196856

1. PERFORM CONFIRMATION PROCEDURE AGAIN

With CONSULT

1. Power switch ON.
2. Erase DTC.
3. 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 P0CA6-19 detected again?

YES>>

GO TO 2 .

NO>>

INSPECTION END (Quick charger malfunction)

2. CHECK QUICK CHARGE PORT

Check quick charge port. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

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

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.

SIEMD-7196968

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1572	00	Brake pedal position switch	Diagnosis condition	Power switch ON
			Signal	Stop lamp switch signal
			Threshold	Even though the vehicle is driven, a signal from the stop lamp switch is not sent to the VCM for an extremely long time
			Detection time	–

POSSIBLE CAUSE

- Harness and connector (The brake pedal position switch circuit is shorted)
- Brake pedal position switch
- Improper installation of brake pedal position switch
- VCM

FAIL-SAFE

Not applicable

SIEMD-7196969

1. CHECK DTC PRIORITY

If DTC P1572-00 is displayed at the same time as another DTC, first perform the trouble diagnosis for the DTC other than P1572-00.

Is DTC other than P1572-00 detected?

YES>>

Perform trouble diagnosis for applicable DTC. Refer to DTC Index.

NO>>

GO TO 2

2. 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 3

3. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON.
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

DTC Diagnosis Procedure

SIEMD-7196970

1. CHECK DTC PRIORITY

If DTC P1572-00 is displayed at the same time as another DTC, first perform the trouble diagnosis for the DTC other than P1572-00.

Is DTC other than P1572-00 detected?

YES>>

Perform trouble diagnosis for applicable DTC. Refer to DTC Index.

NO>>

GO TO 2

2. CHECK STOP LAMP SWITCH SIGNAL

With CONSULT

1. Power switch ON.
2. Select “Stop lamp switch (BNC)” in the “DATA MONITOR” using CONSULT.
3. Check the “Stop lamp switch (BNC)” display under the conditions below.

Monitor item	Condition		Indication
Stop lamp switch (BNC)	Brake pedal	Depressed	Off
		Fully released	On

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

GO TO 3

3. CHECK STOP LAMP SWITCH CIRCUIT

Check stop lamp switch circuit. 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-7197530

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U226B	87	Controller area network communication error front camera	Diagnosis condition	Power switch ON
			Signal	• CAN communication signal • Drivetrain CAN communication 1 circuit signal
			Threshold	Communication error
			Detection time	30 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

1. PRECONDITIONING

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NOTE:
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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.**

>>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

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

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.

SIEMD-7196836

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0A7E	F1	Battery pack pressure sensor	Diagnosis condition	READY
			Signal	• Battery pack pressure sensor 1 signal • Battery pack pressure sensor 2 signal
			Threshold	The battery pack pressure that is detected by battery pack pressure sensor 1 and battery pack pressure sensor 2 is detected to rise in an instant
			Detection time	—

POSSIBLE CAUSE

An internally abnormal generation of heat in the Li-ion battery

FAIL-SAFE

Not applicable