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2012 NISSAN Altima Sedan OEM Service and Repair Workshop Manual

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SIEMD-7196926

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-1

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>>

GO TO 3

3. PERFORM DTC CONFIRMATION PROCEDURE-2

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 seconds.
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-7196927

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 P104C-16 detected again?

YES>>

GO TO 2

NO>>

INSPECTION END (Quick charger malfunction)

2. CHECK QUICK CHARGE PORT TEMPERATURE SENSOR CIRCUIT

Check quick charge port temperature sensor circuit. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3

NO>>

Repair or replace error-detected parts.

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-7196928

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P104C	17	Quick charge port temperature sensor	Diagnosis condition	Always
			Signal	Quick charge port temperature sensor 2 signal
			Threshold	The detected value of quick charge port temperature sensor 2 exceeds the specified value
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Quick charger (Malfunction or non-standard)
- Harness and connector (Quick charge port temperature sensor 2 circuit)
- Quick charge port
- VCM

FAIL-SAFE

Quick charge is prohibited

SIEMD-7196929

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.

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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-1

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>>

GO TO 3

3. PERFORM DTC CONFIRMATION PROCEDURE-2

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 seconds.
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-7196930

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 P104C-17 detected again?

YES>>

GO TO 2

NO>>

INSPECTION END (Quick charger malfunction)

2. CHECK QUICK CHARGE PORT TEMPERATURE SENSOR CIRCUIT

Check quick charge port temperature sensor circuit.Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3

NO>>

Repair or replace error-detected parts.

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-7197503

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2247	82	Controller area network communication error (electric shift)	Diagnosis condition	Power switch ON
			Signal	• CAN communication signal • Drivetrain CAN communication 2 circuit signal
			Threshold	CAN signal is stuck
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 1 circuit

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.

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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.**

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GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 20 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