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2014 NISSAN Teana OEM Service and Repair Workshop Manual

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SIEMD-7199045

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2143	87	CAN communication error (VCM/HCM)	Diagnosis condition	Power switch ON
			Signal	CAN communication signal
			Threshold	When an error signal is detected
			Detection time	Max 9 seconds

POSSIBLE CAUSE

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

FAIL-SAFE

Normal charge is stopped

SIEMD-7199046

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.

>>

GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Set the vehicle to READY and wait at least 120 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>>

GO TO 2

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>>

GO TO 3

3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

With CONSULT

Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC U2143-87 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to Trouble Diagnosis Flow Chart.

NO>>

INSPECTION END

SIEMD-7199048

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2144	83	CAN communication (LBC)	Diagnosis condition	READY, power switch ON or AUTO ACC
			Signal	CAN communication signal
			Threshold	When an error signal is detected
			Detection time	At least 300 ms

POSSIBLE CAUSE

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

FAIL-SAFE

Normal charge is stopped

SIEMD-7199049

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.

>>

GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Set the vehicle to READY and wait at least 120 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

DTC Diagnosis Procedure

SIEMD-7199050

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>>

GO TO 2

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>>

GO TO 3

3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

With CONSULT

Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC U2144-83 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to Trouble Diagnosis Flow Chart.

NO>>

INSPECTION END

SIEMD-7199051

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2A0F	88	Communication error	Diagnosis condition	READY, power switch ON or AUTO ACC
			Signal	CAN communication signal
			Threshold	When a CAN bus off error is detected
			Detection time	At least 2 seconds continuously

POSSIBLE CAUSE

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

FAIL-SAFE

Normal charge is stopped

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.

>>

GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Set the vehicle to READY and wait at least 120 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

SIEMD-7199053

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

With CONSULT

Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC U2A0F-88 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to Trouble Diagnosis Flow Chart.

NO>>

INSPECTION END