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2016 NISSAN Altima Coupe OEM Service and Repair Workshop Manual

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SIEMD-16480127223702

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 4 seconds or more.
2. Select “Self Diagnostic Result” mode of “8ch CAN GATEWAY 2” using CONSULT.
3. Check DTC.

Is DTC U255B-87 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair:Intermittent Incident

NO-2>>

Confirmation after repair: INSPECTION END

SIEMD-16480127223703

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

1. Power switch ON.
2. Erase DTC.
3. Perform DTC confirmation procedure again. Refer to Confirmation Procedure.
4. Check DTC.

Is DTC “U255B-87” detected?

YES>>

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

NO>>

INSPECTION END

SIEMD-16480127223690

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detected condition	
U278C-88	Ethernet circuit	Diagnosis condition	When power switch is ON.
		Signal (terminal)	—
		Threshold	Lost ethernet communication with AV control unit
		Diagnosis delay time	120 seconds or more

POSSIBLE CAUSE

- Ethernet harness
- 8CH CAN gateway
- AV control unit

FAIL-SAFE

8CH CAN gateway stops transmitting and receiving ethernet communication signals between ethernet communication circuit which cannot communicate.

SIEMD-16480127223714

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 120 seconds or more.
2. Select “Self Diagnostic Result” mode of “8ch CAN GATEWAY 2” using CONSULT.
3. Check DTC.

Is DTC U278C–88 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair:

NO-2>>

Confirmation after repair: INSPIntermittent IncidentECTION END

SIEMD-16480127223701

1. CHECK CONNECTOR

1. Power switch OFF.
2. Check the ethernet harness connectors and terminals of 8CH CAN gateway and AV control unit for damage or looseness.

Is the inspection result normal?

YES>>

GO TO 2.

NO >>

Repair or replace the malfunction part, securely lock the harness connector.

2. PERFORM ALL DTC READING

1. Power switch ON.
2. Perform “All DTC Reading” with CONSULT.
3. Check if any DTCs of ethernet (DTC “U2754-88”) are detected in “Self Diagnostic Result” of “MULTI AV”

Are any DTCs of ethernet detected?

YES>>

Replace the 8CH CAN gateway (Refer to Removal and Installation.), and GO TO 3.

NO >>

Replace the AV control unit. Refer to Removal and Installation.

3. PERFORM DTC CONFIRMATION PROCEDURE-1

1. Erases all self-diagnosis results with CONSULT.
2. Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC “U278C-88” detected as the current malfunction?

YES>>

Replace the AV control unit (Removal and Installation), and GO TO 4.

NO >>

INSPECTION END

4. PERFORM DTC CONFIRMATION PROCEDURE-2

1. Erases all self-diagnosis results with CONSULT.
2. Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC “U278C-88” detected as the current malfunction?

YES>>

Replace the ethernet harness between 8CH CAN gateway and AV control unit.

NO >>

INSPECTION END

SIEMD-16480128212944

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detected condition	
U288C-88	Ethernet circuit	Diagnosis condition	When power switch is ON.
		Signal (terminal)	—
		Threshold	Lost ethernet communication with combination meter and/or Head Up Display unit
		Diagnosis delay time	120 seconds or more

POSSIBLE CAUSE

- Ethernet harness
- 8CH CAN gateway
- Combination meter
- Head Up Display unit

FAIL-SAFE

8CH CAN gateway stops transmitting and receiving ethernet communication signals between ethernet communication circuit which cannot communicate.

SIEMD-16480128212931

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 120 seconds or more.
2. Select “Self Diagnostic Result” mode of “8ch CAN GATEWAY 2” using CONSULT.
3. Check DTC.

Is DTC U288C-88 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Intermittent Incident

NO-2>>

Confirmation after repair: INSPECTION END

DTC Diagnosis Procedure

SIEMD-16480128212933

1. CHECK CONNECTOR

1. Power switch OFF.
2. Check the following ethernet harness connectors and terminals for damage or looseness.
    - 8CH CAN gateway
    - Combination meter (without Head Up Display)
    - Head Up Display (with Head Up Display)

Is the inspection result normal?

YES>>

GO TO 2.

NO >>

Repair or replace the malfunction part, securely lock the harness connector.

2. PERFORM ALL DTC READING

1. Power switch ON.
2. Perform “All DTC Reading” with CONSULT.
3. Check if any DTCs of ethernet (DTC “U278C-87” and/or "U2773–88") are detected in “Self Diagnostic Result” of “METER/M&A” and/ or “E-HUD”

Are any DTCs of ethernet detected?

YES>>

Replace the 8CH CAN gateway (Refer to Removal and Installation.), and GO TO 3.

NO >>

Replace the combination meter and/or Head Up Display unit.

- Without Head Up Display: Refer to Removal and Installation.
- With Head Up Display: Refer to Removal and Installation.

3. PERFORM DTC CONFIRMATION PROCEDURE-1

1. Erases all self-diagnosis results with CONSULT.
2. Perform DTC confirmation procedure again. Refer to Confirmation Procedure.

Is DTC “U288C-88” detected as the current malfunction?

YES>>

Replace the combination meter and/or Head Up Display unit. GO TO 4.

- Without Head Up Display: Removal and Installation
- With Head Up Display: Removal and Installation

NO >>

INSPECTION END