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2016 NISSAN Altima Coupe OEM Service and Repair Workshop Manual

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1. PERFORM DTC CONFIRMATION PROCEDURE

(H)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?

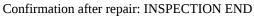
YES>>

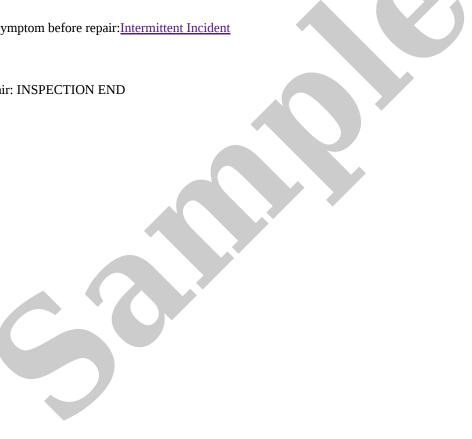
Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Intermittent Incident

NO-2>>





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



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.



1. PERFORM DTC CONFIRMATION PROCEDURE

(H)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>>





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.

<u>Is the inspection result normal?</u>

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.



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.

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)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?

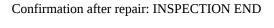
YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Intermittent Incident

NO-2>>



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.
- Perform DTC confirmation procedure again. Refer to <u>Confirmation Procedure</u>.

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 >>