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2017 Nissan Titan XD Service and Repair Manual

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5. CHECK ETHERNET CABLE (BETWEEN ADAS CONTROL UNIT 2 AND HD MAP MODULE)

1. Turn power switch OFF.
2. Check Ethernet cable connector of ADAS control unit 2 and HD map module for disconnection, bent, loose connection.

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Connect Ethernet cable properly.

6. CHECK ETHERNET CABLE (BETWEEN FRONT CAMERA UNIT AND HD MAP MODULE)

Check Ethernet cable connector of front camera unit and HD map module for disconnection, bent, loose connection.

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Connect Ethernet properly.

7. REPLACE ETHERNET CABLE (BETWEEN ADAS CONTROL UNIT 2 AND HD MAP MODULE)

1. Replace Ethernet cable between ADAS control unit 2 and HD map module.
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC "U1C96-87" detected as current malfunction?

YES>>

[GO TO 8.](#)

NO>>

INSPECTION END

8. REPLACE ETHERNET CABLE (BETWEEN FRONT CAMERA UNIT AND HD MAP MODULE)

1. Replace Ethernet cable between front camera unit and HD map module.
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC "U1C96-87" detected as current malfunction?

YES>>

[GO TO 9.](#)

NO>>

INSPECTION END

9. REPLACE ADAS CONTROL UNIT 2

1. Replace ADAS control unit 2. Refer to [Removal and Installation](#).
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC "U1C96-87" detected as current malfunction?

YES>>

[GO TO 10.](#)

NO>>

INSPECTION END

10. REPLACE FRONT CAMERA UNIT

1. Replace front camera unit. Refer to [Removal and Installation](#).
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC "U1C96-87" detected as current malfunction?

YES>>

Replace HD map module. Refer to [Removal and Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U1C97	82	Ethernet communication error	Diagnosis condition	When power switch is ON
			Signal (terminal)	Ethernet communication signal
			Threshold	Signal received from ADAS control unit 2 is abnormal
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- ADAS control unit 2 is abnormal
- TCU is abnormal

FAIL-SAFE

The following systems are canceled.

- Lane keeping function*
- Lane change support function
- Overtaking support function
- Route driving support function

*: ProPILOT Assist 2.0 display is blue

1. DTC CONFIRMATION PROCEDURE

1. Turn power switch ON and wait 2 seconds or more.
2. Perform "All DTC Reading" with CONSULT.
3. Check if "U1C97-82" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "U1C97-82" detected as current malfunction?

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

Sample

1. CHECK SELF-DIAGNOSIS RESULT OF ADAS CONTROL UNIT 2

Check if DTC is detected in self-diagnosis result of "ICC/ADAS 2".

Is DTC detected?

YES>>

Perform trouble diagnosis for detected DTC and repair or replace malfunctioning part. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. CHECK SELF-DIAGNOSIS RESULT OF TCU

Check if DTC is detected in self-diagnosis result of "SOS CALL".

Is DTC detected?

YES>>

Perform diagnosis for detected DTC and repair or replace malfunctioning part. Refer to [DTC Index](#).

NO>>

Replace HD map module. Refer to [Removal and Installation](#).

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U1C97	83	Ethernet communication error	Diagnosis condition	When power switch is ON
			Signal (terminal)	Ethernet communication signal
			Threshold	Signal received from ADAS control unit 2 or TCU is abnormal
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- ADAS control unit 2 is abnormal
- TCU is abnormal

FAIL-SAFE

The following systems are canceled.

- Lane keeping function*
- Lane change support function
- Overtaking support function
- Route driving support function

*: ProPILOT Assist 2.0 display is blue

1. DTC CONFIRMATION PROCEDURE

1. Turn power switch ON and wait 2 seconds or more.
2. Perform "All DTC Reading" with CONSULT.
3. Check if "U1C97-83" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "U1C97-83" detected as current malfunction?

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

Sample

1. CHECK SELF-DIAGNOSIS RESULT OF ADAS CONTROL UNIT 2

Check if DTC is detected in self-diagnosis result of "ICC/ADAS 2".

Is DTC detected?

YES>>

Perform trouble diagnosis for detected DTC and repair or replace malfunctioning part. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. CHECK SELF-DIAGNOSIS RESULT OF TCU

Check if DTC is detected in self-diagnosis result of "SOS CALL".

Is DTC detected?

YES>>

Perform diagnosis for detected DTC and repair or replace malfunctioning part. Refer to [DTC Index](#).

NO>>

Replace HD map module. Refer to [Removal and Installation](#).

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U1C98	82	Ethernet communication error	Diagnosis condition	When power switch is ON
			Signal (terminal)	Ethernet communication signal
			Threshold	Signal received from ADAS control unit 2 is abnormal
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

ADAS control unit 2 is abnormal

FAIL-SAFE

The following systems are canceled.

- Lane keeping function*
- Lane change support function
- Overtaking support function
- Route driving support function

*: ProPILOT Assist 2.0 display is blue