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2017 NISSAN Titan XD Crew Cab OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detection condition | |
|-------|----|-------------------------|-------------------------|---|
| U1C93 | 87 | GPS communication error | Diagnosis condition | When power switch is ON |
| | | | Signal (terminal) | GNSS communication signal |
| | | | Threshold | Detects serial communication blackout with GNSS antenna |
| | | | Diagnosis delay time | 2 seconds or more |

POSSIBLE CAUSE

- GNSS antenna connector is disconnected
- HD map module 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.
2. Perform "All DTC Reading" with CONSULT.
3. Check if "U1C93-87" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "U1C93-87" 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 GNSS ANTENNA CONNECTION

1. Turn power switch OFF.
2. Check GNSS antenna for connection (including intermediate connector).
3. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC "U1C93-87" detected as current malfunction?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detection condition | |
|-------|----|------------------------------|-------------------------|--|
| U1C96 | 82 | Ethernet communication error | Diagnosis condition | When power switch is ON |
| | | | Signal (terminal) | Ethernet communication signal |
| | | | Threshold | When the signal received from ADAS control unit 2 or the front camera unit is abnormal |
| | | | Diagnosis delay time | 2 seconds or more |

POSSIBLE CAUSE

- ADAS control unit 2 is abnormal
- Front camera unit is abnormal

FAIL-SAFE

None

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 "U1C96-82" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "U1C96-82" 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>>

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2. CHECK SELF-DIAGNOSIS RESULT OF FRONT CAMERA UNIT

Check if DTC is detected in self-diagnosis result of "LANE CAMERA".

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 | |
|-------|----|------------------------------|-------------------------|---|
| U1C96 | 87 | Ethernet communication error | Diagnosis condition | When power switch is ON |
| | | | Signal (terminal) | Ethernet communication signal |
| | | | Threshold | Detects Ethernet communication circuit blackout |
| | | | Diagnosis delay time | 2 seconds or more |

POSSIBLE CAUSE

- ADAS control unit 2 is abnormal
- Front camera unit is abnormal

FAIL-SAFE

None

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 "U1C96-87" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "U1C96-87" 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 CONSULT DISPLAY OF ADAS CONTROL UNIT 2

1. Perform "All DTC Reading" with CONSULT.
2. Check if item of "ICC/ADAS 2" is displayed in the "All DTC Reading".

Is item of "ICC/ADAS 2" displayed?

YES>>

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NO>>

Check power supply and ground circuit of ADAS control unit 2. Refer to [Work Procedure](#).

2. CHECK CONSULT DISPLAY OF FRONT CAMERA UNIT

1. Perform "All DTC Reading" with CONSULT.
2. Check if "LANE CAMERA" mode is displayed in the "All DTC Reading."

Is "LANE CAMERA" mode displayed?

YES>>

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NO>>

Check power supply and ground circuit of ADAS control unit 2. Refer to [Work Procedure](#).

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

1. Turn power switch ON.
2. Check if DTC is detected in self-diagnosis result of "ICC/ADAS 2".

Is DTC detected?

YES>>

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

NO>>

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4. CHECK SELF-DIAGNOSIS RESULT OF FRONT CAMERA UNIT

Check if DTC is detected in self-diagnosis result of "LANE CAMERA".

Is DTC detected?

YES>>

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

NO>>

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