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2018 NISSAN Titan XD Crew Cab OEM Service and Repair Workshop Manual

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DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "C1F42-83" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

GO TO 2 .

2. CHECK VCM SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "EV/HEV".

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to DTC Index.

NO >>

Replace the ADAS control unit 2. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F44	29	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON
			Signal (terminal)	—
			Threshold	If ADAS control unit 2 detects an error signal that is received from BCM via CAN communication
			Diagnosis delay time	3 seconds or more

POSSIBLE CAUSE

- BCM

- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

- Lane keep function[*]

- Lane change support function

- Overtaking support function

- Route driving support function

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F44-29" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable.Refer to DTC Index.

NO>>

GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Turn the AEB system ON and wait at least 3 seconds.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F44-29" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F44-29" detected as the 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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "C1F44-29" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to DTC Index.

NO>>

GO TO 2.

2. PERFORM SELF-DIAGNOSIS OF BCM

Check if any DTC is detected in "Self Diagnostic Result" of "BCM".

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to DTC Index.

NO>>

Replace the ADAS control unit 2. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F44	82	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON
			Signal (terminal)	—
			Threshold	If ADAS control unit 2 detects an error signal that is received from BCM via CAN communication
			Diagnosis delay time	3 seconds or more

POSSIBLE CAUSE

- BCM
- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

- Vehicle speed & vehicle-to-vehicle control function
- Lane keep function*1
- Lane keep function*2
- Lane change support function
- Overtaking support function
- Route driving support function
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI
- TSR
- I-DA
- 1: ProPILOT Assist 2.0 display is green
- 2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F44-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Turn the AEB system ON and wait at least 3 seconds.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F44-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F44-82" detected as the 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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "C1F44-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to <u>DTC Index</u> (Without ProPILOT Assist 2.0) or <u>DTC Index</u> (With ProPILOT Assist 2.0).

NO >>

<u>GO TO 2</u> .

2. PERFORM SELF-DIAGNOSIS OF BCM

Check if any DTC is detected in "Self Diagnostic Result" of "BCM".

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to <u>DTC Index</u>.

NO >>

Replace the ADAS control unit 2. Refer to <u>Removal and Installation</u> (Without ProPILOT Assist 2.0) or <u>Removal and Installation</u> (With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F44	82	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	—	
			Threshold	If ADAS control unit 2 detects an error signal that is received from BCM via CAN communication	
			Diagnosis delay time	3 seconds or more	

POSSIBLE CAUSE

- BCM

- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode

- Conventional (fixed speed) cruise control mode

- Steering wheel assistance function

- AEB

- RAB

- I-FCW

- I-LI

- I-BSI

- TSR

- I-DA

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F44-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable.Refer to DTC Index.

NO >>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Turn the AEB system ON and wait at least 3 seconds.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F44-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F44-82" detected as the 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