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2020 Nissan Titan Service and Repair Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F54	29	E-driven intelligent brake unit circuit (Electrically-driven intelligent brake unit circuit)	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 electrically-driven intelligent brake unit via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Electrically-driven intelligent brake unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- 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 "C1F54-29" 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.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F54-29" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F54-29" 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 "C1F54-29" 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 ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT

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

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	
C1F54	82	E-driven intelligent brake unit circuit (Electrically-driven intelligent brake unit circuit)	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 electrically-driven intelligent brake unit via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Electrically-driven intelligent brake unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- 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

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F54-82" 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.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F54-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F54-82" 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

1. CHECK DTC PRIORITY

If DTC "C1F54-82" is displayed with Network-DTC, first diagnose the Network-DTC.

<u>Is applicable DTC detected?</u>

YES>>

Perform diagnosis of applicable. Refer to <u>DTC Index</u>.

NO>>

<u>GO TO 2</u>.

2. PERFORM SELF-DIAGNOSIS OF ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT

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

<u>Is any DTC detected?</u>

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>.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F54	83	E-driven intelligent brake unit circuit (Electrically-driven intelligent brake unit circuit)	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 electrically-driven intelligent brake unit via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Electrically-driven intelligent brake unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- 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

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F54-83" 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. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Turn the AEB system ON.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F54-83" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F54-83" 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

1. CHECK DTC PRIORITY

If DTC "C1F54-83" 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. PERFORM SELF-DIAGNOSIS OF ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT

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

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.