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2021 NISSAN Titan Crew Cab Service and Repair Manual

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DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| | | Diagnosis condition | When power switch is ON. |
| C2520-87 | BCM | Signal (terminal) | CAN communication signal |
| | | Threshold | Front camera unit detects that BCM has a malfunction. |
| | | Diagnosis delay time | 5 seconds or more |
| | | | |

POSSIBLE CAUSE

BCM

FAIL-SAFE

The following functions are suspended.

- Vehicle-to-vehicle distance control mode^{*1}
- Steering wheel assistance function^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- LDW
- I-LI
- I-BSI
- TSR

*1: With ProPILOT Assist, Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

*3: ProPILOT Assist 2.0 display is green

*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2520-87” 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. Turn the power switch ON, and then wait for 5 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C2520-87” is detected as the current malfunction on the self-diagnosis results of “LANE CAMERA”.

Is “C2520-87” 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 “C2520-87” 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 BCM SELF DIAGNOSTIC RESULT

Perform “Self Diagnostic Result” of “BCM” using CONSULT.

Are any DTCs detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO >>

Replace front camera unit. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| C2522-82 | ABS | Diagnosis condition | When power switch is ON. |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | Front camera unit detects that ABS actuator and electric unit (control unit) has a malfunction. |
| | | Diagnosis delay time | 5 seconds or more |



NOTE:

DTC "C2522-82" may be detected when CONSULT is communicating with ABS actuator and electric unit (control unit) since the control function of ABS actuator and electric unit (control unit) is temporary stopped.

POSSIBLE CAUSE

ABS actuator and electric unit (control unit)

FAIL-SAFE

The following functions are suspended.

- Vehicle-to-vehicle distance control mode^{*1}
- Steering wheel assistance function^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- LDW
- I-LI
- I-BSI
- TSR

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*3: ProPILOT Assist 2.0 display is green

*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2522-82” 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. Turn the power switch ON, and then wait for 5 seconds or more.
2. Perform “Diagnosis (One System)” of "LANE CAMERA" with CONSULT.



NOTE:

When performing "All DTC Reading", DTC “C2522-82” may be detected because ABS actuator and electric unit (control unit) stops its control function by communicating with CONSULT. Therefore performing "Diagnosis (One System)" is necessary.

3. Check if the “C2522-82” is detected as the current malfunction on the self-diagnosis results of “LANE CAMERA”.

Is “C2522-82” 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 “C2522-82” 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. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform “Self Diagnostic Result” of “ABS” using CONSULT.

Are any DTCs detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO >>

Replace front camera unit. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| C2522-83 | ABS | Diagnosis condition | When power switch is ON. |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | Front camera unit detects that ABS actuator and electric unit (control unit) has a malfunction. |
| | | Diagnosis delay time | 5 seconds or more |



NOTE:

DTC "C2522-83" may be detected when CONSULT is communicating with ABS actuator and electric unit (control unit) since the control function of ABS actuator and electric unit (control unit) is temporary stopped.

POSSIBLE CAUSE

ABS actuator and electric unit (control unit)

FAIL-SAFE

The following functions are suspended.

- Vehicle-to-vehicle distance control mode^{*1}
- Steering wheel assistance function^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- LDW
- I-LI
- I-BSI
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*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2522-83” 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. Turn the power switch ON, and then wait for 5 seconds or more.
2. Perform “Diagnosis (One System)” of "LANE CAMERA" with CONSULT.



NOTE:

When performing "All DTC Reading", DTC “C2522-83” may be detected because ABS actuator and electric unit (control unit) stops its control function by communicating with CONSULT. Therefore performing "Diagnosis (One System)" is necessary.

3. Check if the “C2522-83” is detected as the current malfunction on the self-diagnosis results of “LANE CAMERA”.

Is “C2522-83” 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 “C2522-83” 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 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform “Self Diagnostic Result” of “ABS” using CONSULT.

Are any DTCs detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO >>

Replace front camera unit. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).