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2021 Nissan NV2500 HD Service and Repair Manual

Go to manual page

1. CHECK CONNECTOR

1. Turn the power switch OFF.
2. Check the terminals and connectors of the side radar front LH/RH for damage, bend and short (unit side and connector side).

Is the inspection result normal?

YES>>

GO TO 2.

NO>>

Repair the terminal or connector.

2. CHECK CONTINUITY OF RIGHT/LEFT SWITCHING SIGNAL CIRCUIT

1. Disconnect side radar front LH/RH connector.
2. Check continuity between side radar front LH/RH harness connector and ground.

Side radar front RH		Ground	Continuity	
Connector	Terminal			
E158	7		Yes	

Is the inspection result normal?

YES>>

Inspection End.

NO>>

Repair harness or connector.

SIEMD-7109770

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C2591	81	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	CAN communication signal	
			Threshold	If the BCM is malfunction	
			Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

BCM

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode*1
- Conventional (fixed speed) cruise control mode*1
- Steering wheel assistance function*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
- RAB
- I-FCW

*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 “C2591-81” 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 then wait for 2 seconds or more.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C2591-81” is detected as the current malfunction in self-diagnosis results of “LASER/RADAR”.

Is “C2591-81” 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

SIEMD-7109573

1. CHECK DTC PRIORITY

If DTC “C2591-81” 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-DIAGNOSIS RESULTS

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 distance sensor. Refer to Removal and Installation.

SIEMD-7109701

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C2591	82	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	CAN communication signal	
			Threshold	If the BCM is malfunction	
			Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

BCM

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode*1
- Conventional (fixed speed) cruise control mode*1
- Steering wheel assistance function*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
- RAB
- I-FCW

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CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2591-82” 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 “C2591-82” is detected as the current malfunction in self-diagnosis results of “LASER/RADAR”.

Is “C2591-82” 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 “C2591-82” 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 BCM SELF-DIAGNOSIS RESULTS

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 distance sensor. Refer to Removal and Installation.

SIEMD-7109786

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C2591	86	BCM (Body control module)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	CAN communication signal	
			Threshold	If the BCM is malfunction	
			Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

BCM

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode*1
- Conventional (fixed speed) cruise control mode*1
- Steering wheel assistance function*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
- RAB
- I-FCW

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CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2591-86” 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 then wait for 2 seconds or more.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C2591-86” is detected as the current malfunction in self-diagnosis results of “LASER/RADAR”.

Is “C2591-86” 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