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2023 NISSAN NV200 Service and Repair Manual

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1. PERFORM THE SELF-DIAGNOSIS OF SIDE RADAR FRONT RH

1. Erase all self-diagnosis results of “Side radar (Front right)” with CONSULT.
2. Perform DTC confirmation procedure again. Refer to [DTC Description](#).
3. Check if the “U2156-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front right)”.

Is “U2156-87” detected as the current malfunction?

YES>>

Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1EC1	12	Incorrect installation location	Diagnosis condition	When power switch is ON.
			Signal (terminal)	Front / rear / left / right switching signal
			Threshold	When there are multiple side radars with the same mounting position information due to an abnormality in the front / rear / left / right switching signal circuit
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Side radar front right installation failure

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

*1 : ProPILOT Assist 2.0 display is green

*2 : ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn power switch ON.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C1EC1-12” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front right)”.

Is the “C1EC1-12” 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

Sample

1. CHECK SIDE RADAR FRONT RH INSTALL CONDITION

Check if a side radar with registered position information other than the side radar front RH is connected to the side radar front RH connector.

Is the inspection result normal?

YES>>

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NO>>

Repair or replace the malfunctioning parts.

2. FRONT / REAR / LEFT / RIGHT IDENTIFICATION SIGNAL CIRCUIT INSPECTION

Check the front / rear / left / right identification signal circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

Replace the side radar front RH. Refer to [Removal and Installation](#).

NO>>

Repair or replace harness or connectors.

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1ED4	97	Radar electromagnetic interference	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal
			Threshold	—
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- When there is something that emits strong radio waves near the vehicle (example: large radio, radar facility, etc.)
- Ran near something that emits strong radio waves

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

*1 : ProPILOT Assist 2.0 display is green

*2 : ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn power switch ON.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C1ED4-97” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front right)”.

Is the “C1ED4-97” 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. PERFORM SIDE RADAR ALIGNMENT

1. Adjust the side radar alignment. Refer to [Work Procedure](#).
2. Erase all self-diagnosis results of “Side radar (Front right)” with CONSULT.
3. Perform “All DTC Reading”.
4. Check if the “C1ED4-97” is detected in “Self Diagnostic Result” of “Side radar (Front right)”.

Is “C1ED4-97” detected?

YES>>

[GO TO 2.](#)

NO>>

INSPECTION END

2. CHECK THE SURROUNDING CONDITIONS

Check if there is anything that emits radio waves near the vehicle.

Is there anything near the vehicle that emits radio waves?

YES>>

Move the vehicle away from devices that emit radio waves and check the DTC confirmation procedure again. Refer to [DTC Description](#).

NO>>

Replace the side radar front RH. Refer to [Removal and Installation](#).

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U2148	81	CAN communication error (brake control unit)	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal
			Threshold	Side radar front RH detects that ABS actuator and electric unit (control unit) has a malfunction
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

ABS actuator and electric unit (control unit)

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

*1 : ProPILOT Assist 2.0 display is green

*2 : ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn power switch ON.
2. Perform "All DTC Reading" with CONSULT.
3. Check if the "U2148-81" is detected as the current malfunction in "Self Diagnostic Result" of "Side radar (Front right)".

Is the "U2148-81" 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>>

Sample

1. CHECK DTC PRIORITY

If DTC “U2148-81” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

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2. PERFORM SELF-DIAGNOSIS OF ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

Check if any DTC is detected in “Self Diagnostic Result” of “ABS”.

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 side radar front RH. Refer to [Removal and Installation](#).