

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2023 NISSAN Frontier/Navara King Cab Service and Repair Manual

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To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

Sample

1. CHECK SELF-DIAGNOSIS RESULTS

1. Turn the power switch OFF.
2. Wait for 10 minutes or more.
3. Turn the power switch ON.
4. Perform “All DTC Reading” with CONSULT.

Check if the “C1E40-4B” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front left)”.

Is “C1E40-4B” detected as the current malfunction?

YES >>

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

NO >>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1E53	55	Configuration unfinished	Diagnosis condition	Turn power switch ON.
			Signal (terminal)	—
			Threshold	The vehicle specifications of side radar front LH is incomplete.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Vehicle specifications for side radar front LH is incomplete.

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 “C1E53-55” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front left)”.

Is “C1E53-55” 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 CONFIGURATION OF SIDE RADAR FRONT LH

Perform configuration of side radar front LH when DTC “C1E53-55” is detected.

>>

Perform configuration of side radar front LH. Refer to [Work Procedure](#).

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1E51	97	Side radar stain	Diagnosis condition	When power switch is ON.
			Signal (terminal)	—
			Threshold	If any stain occurs to side radar front LH body window.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Stain or foreign materials is deposited
- Cracks or scratches exist

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 “C1E51-97” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front left)”.

Is the DTC “C1E51-97” detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Sample

1. VISUAL CHECK 1

Check the contamination and foreign matter on the side radar front LH area of the front bumper.

Does contamination or foreign materials adhere?

YES>>

Wipe out the contamination and foreign matter on the side radar front LH area of the front bumper.

NO>>

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2. VISUAL CHECK 2

1. Remove the side radar front LH. Refer to [Removal and Installation](#).
2. Check side radar front LH for contamination and foreign matter.

Does contamination or foreign matter adhere?

YES>>

Wipe out the contamination and foreign matter from the side radar front LH.

NO>>

[GO TO 3.](#)

3. VISUAL CHECK 3

Check side radar front LH for cracks and scratches.

Is it found?

YES>>

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

NO>>

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4. INTERVIEW

1. Ask if there is any trace of contamination or foreign materials adhering to the side radar front LH area of the front bumper.
2. Ask if side radar front LH area of the front bumper was frosted during driving or if vehicle was driven in snow.
3. Ask if side radar front LH area of the front bumper was temporarily fogged. (Windshield glass may also tend to fog, etc.)

Is any of above conditions seen?

YES>>

Explain to the customer about the difference between the contamination detection function and the indication when the malfunction is detected and tell them "This is not malfunction".

NO>>

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

CAN COMMUNICATION

- CAN communication is a multiplex communication system. This enables the system to transmit and receive large quantities of data at high speed by connecting control units with 2 communication lines.
- CAN communication lines adopt twisted-pair line style (two lines twisted) for noise immunity. Refer to [CAN Communication Signal Chart](#).

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U1B3E	87	CAN communication error	Diagnosis condition	When vehicle is READY
			Signal (terminal)	CAN communication signal
			Threshold	If side radar front LH is not transmitting or receiving CAN communication signal
			Diagnosis delay time	2 seconds or more



NOTE:

If “U1B3E-87” is detected, first diagnose the CAN communication system.

POSSIBLE CAUSE

CAN communication system

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



NOTE:

With the detection of “U1B3E-87” some systems do not perform the fail-safe operation. A system controlling based on a signal received from the control unit performs fail-safe operation when the communication with the side radar front LH becomes inoperable.

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY, and then wait for 2 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U1B3E-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Front left)”.

Is “U1B3E-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

Sample