

# 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.

## 2021 NISSAN Skyline Sedan Service and Repair Manual

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## 1. CHECK DTC PRIORITY

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If DTC “C2588-86” 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. CHECK ADAS CONTROL UNIT 2 SELF-DIAGNOSIS RESULTS

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Check if any DTC is detected in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#) (Without ProPILOT Assist 2.0) or [DTC Index](#) (With ProPILOT Assist 2.0).

NO>>

Replace the distance sensor. Refer to [Removal and Installation](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2588	87	ADAS control unit (Advanced driver assistance systems control unit)	Diagnosis condition	<ul style="list-style-type: none"> <li>When vehicle is READY</li> <li>When AEB system is ON</li> </ul>
			Signal (terminal)	CAN communication signal
			Threshold	If the ADAS control unit 2 is malfunction
			Diagnosis delay time	2 seconds or more

## POSSIBLE CAUSE

ADAS control unit 2

## FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode<sup>\*1</sup>
- Conventional (fixed speed) cruise control mode<sup>\*1</sup>
- Steering wheel assistance function<sup>\*1</sup>
- Vehicle speed & vehicle-to-vehicle control function<sup>\*2</sup>
- Lane keep function<sup>\*2,3</sup>
- Lane keep function<sup>\*2,4</sup>
- Lane change support function<sup>\*2</sup>
- Overtaking support function<sup>\*2</sup>
- Route driving support function<sup>\*2</sup>
- 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 “C2588-87” 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

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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 “C2588-87” is detected as the current malfunction in self-diagnosis results of “LASER/RADAR”.

Is “C2588-87” 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

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If DTC “C2588-87” 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 ADAS CONTROL UNIT 2 SELF-DIAGNOSIS RESULTS

---

Check if any DTC is detected in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#) (Without ProPILOT Assist 2.0) or [DTC Index](#) (With ProPILOT Assist 2.0).

NO >>

Replace the distance sensor. Refer to [Removal and Installation](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U2152	83	CAN communication error (ADAS control unit)	Diagnosis condition	<ul style="list-style-type: none"> <li>When vehicle is READY</li> <li>When AEB system is ON</li> </ul>
			Signal (terminal)	CAN communication signal
			Threshold	If the ADAS control unit 2 is malfunction
			Diagnosis delay time	2 seconds or more

## POSSIBLE CAUSE

ADAS control unit 2

## FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode<sup>\*1</sup>
- Conventional (fixed speed) cruise control mode<sup>\*1</sup>
- Steering wheel assistance function<sup>\*1</sup>
- Vehicle speed & vehicle-to-vehicle control function<sup>\*2</sup>
- Lane keep function<sup>\*2,3</sup>
- Lane keep function<sup>\*2,4</sup>
- Lane change support function<sup>\*2</sup>
- Overtaking support function<sup>\*2</sup>
- Route driving support function<sup>\*2</sup>
- AEB
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\*4: ProPILOT Assist 2.0 display is blue

## CONFIRMATION PROCEDURE

### 1. CHECK DTC PRIORITY

If DTC "U2152-83" 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**

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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 "U2152-83" is detected as the current malfunction in "Self Diagnostic Result" of "LASER/RADAR".

Is "U2152-83" 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 "U2152-83" 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 ADAS CONTROL UNIT 2 SELF-DIAGNOSIS RESULTS

---

Check if any DTC is detected in "Self Diagnostic Result" of "ICC/ADAS 2".

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#) (Without ProPILOT Assist 2.0) or [DTC Index](#) (With ProPILOT Assist 2.0).

NO >>

Replace the distance sensor. Refer to [Removal and Installation](#).



## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2581	78	Distance sensor (Distance sensor)	Diagnosis condition	<ul style="list-style-type: none"> <li>When vehicle is READY</li> <li>When AEB system is ON</li> </ul>
			Signal (terminal)	—
			Threshold	Radar of distance sensor is off the aiming point
			Diagnosis delay time	30 seconds or more


**NOTE:**

When driving is continued while snow is adhered to distance sensor, “C2581-78” may be detected.

## POSSIBLE CAUSE

Radar is off the aiming point

## FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode<sup>\*1</sup>
- Conventional (fixed speed) cruise control mode<sup>\*1</sup>
- Steering wheel assistance function<sup>\*1</sup>
- Vehicle speed & vehicle-to-vehicle control function<sup>\*2</sup>
- Lane keep function<sup>\*2,3</sup>
- Lane keep function<sup>\*2,4</sup>
- Lane change support function<sup>\*2</sup>
- Overtaking support function<sup>\*2</sup>
- Route driving support function<sup>\*2</sup>
- AEB
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# CONFIRMATION PROCEDURE

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## 1. CHECK IF FOREIGN MATTER OR DIRT ADHERES TO DISTANCE SENSOR

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1. Remove foreign matter or dirt from distance sensor.
2. Perform auto correct function or distance sensor adjustment.
  - When performing auto correct function, satisfy the following all conditions and drive.
    - Vehicle speed: approximately 5 km/h or more
    - An object reflecting radar is in front of the vehicle
    - Driving straight ahead at constant speed

**CAUTION:**  
Always drive safely.

- When performing distance sensor adjustment, Refer to [Work Procedure](#).



**NOTE:**

- Although "C2581-78" is detected as the current malfunction, if foreign matter or dirt is removed and axis misalignment is corrected, the warning lamp turns off and system malfunction message in combination meter display disappears.
- Axis misalignment can be corrected by auto correct function or distance sensor adjustment.
- Distance sensor is employed with auto correct function to correct axis misalignment during driving process.
- The length of time to complete the correction by auto correct function is largely fluctuated depends on satisfaction of conditions.

3. Stop the vehicle if the purpose of driving is to perform auto correct function.
4. Check Horizontal Alignment value and Vertical Alignment value with "LASER/RADAR" in "DATA MONITOR".

Check that both Horizontal Alignment value and Vertical Alignment value are  $0 \pm 6.00$  deg.

YES>>

[GO TO 2.](#)

NO>>

Repeat step 2 until both Horizontal Alignment value and Vertical Alignment value are  $0 \pm 6.00$  deg.

## 2. PERFORM DTC CONFIRMATION PROCEDURE

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1. Set the vehicle to READY.
2. Erase all self-diagnosis results with CONSULT.
3. Turn the AEB system ON, and then wait for 30 seconds or more.
4. Perform "All DTC Reading" with CONSULT.
5. Check if the "C2581-78" is detected as the current malfunction on the self-diagnosis results of "LASER/RADAR".

Is "C2581-78" detected as the current malfunction?

YES >>