

# 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.

## Nissan Frontier 2021 Manual Service & Repair Workshop Guide

[Go to manual page](#)

- Always perform the distance sensor configuration after replacing the distance sensor.
- Always perform the radar alignment after removing and installing or replacing the distance sensor.

**CAUTION:**

**The system does not operate normally unless the distance sensor configuration and the radar alignment are performed. Always perform them.**

- Perform the AEB system action test to check that the AEB system operates normally.

## 1. DISTANCE SENSOR CONFIGURATION

---

Perform the distance sensor configuration with CONSULT. Refer to [Work Procedure](#).

>>

[GO TO 2.](#)

## 2. PERFORM RADAR ALIGNMENT

---

Perform the radar alignment. Refer to [Work Procedure](#).

>>

[GO TO 3.](#)

## 3. AEB SYSTEM ACTION TEST

---

1. Perform the following system action test.

- LDW: Refer to [Work Procedure](#).
- I-LI: Refer to [Work Procedure](#).
- BSW: Refer to [Work Procedure](#).
- I-BSI: Refer to [Work Procedure](#).
- TSR: Refer to [Work Procedure](#).
- RCTA: Refer to [Work Procedure](#).
- I-DA: Refer to [Work Procedure](#).

2. Check that the each system operates normally.

>>

INSPECTION END

Vehicle specification needs to be written with CONSULT because it is not written after replacing the driver monitor camera control unit.

The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the driver monitor camera control unit.

**NOTE:**

**For details the network connection and operation, refer to “CONSULT Operation Manual”.**

**The configuration no need to “save” configuration data from the side radar. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.**

**CAUTION:**

- **Complete the procedure of “Configuration” in order.**
- **If incorrect “Configuration”, incidents might occur.**

## 1. WRITING VEHICLE SPECIFICATION

---

 With CONSULT

Perform writing vehicle specification to side radar following "Automatic Configuration" procedure of "Configuration" according to CONSULT Operation Manual.

**NOTE:**

- **Log in the network according to CONSULT guidance.**
- **For details the network connection and operation, refer to “CONSULT Operation Manual”.**

>>

WORK END

- Always perform the front camera unit configuration after replacing the front camera unit.
- Always perform the camera aiming after removing and installing or replacing the front camera unit.

**CAUTION:**

**The system does not operate normally unless the front camera unit configuration and the camera aiming adjustment are performed. Always perform them.**

## 1. FRONT CAMERA UNIT CONFIGURATION

---

Perform the front camera unit configuration with CONSULT. Refer to [Work Procedure](#).

>>

[GO TO 2.](#)

## 2. CAMERA AIMING ADJUSTMENT

---

Perform the camera aiming adjustment with CONSULT. Refer to [Work Procedure](#).

>>

[GO TO 3.](#)

## 3. PERFORM SELF-DIAGNOSIS

---

Perform the self-diagnosis of front camera unit with CONSULT. Check if any DTC is detected.

Is any DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 4.](#)

## 4. ACTION TEST

---

1. Perform the following system action test.

- LDW: Refer to [Work Procedure](#).
- I-LI: Refer to [Work Procedure](#).
- I-BSI: Refer to [Work Procedure](#).
- TSR: Refer to [Work Procedure](#).

2. Check that the each system operates normally.

>>

WORK END

When driver monitor camera control unit is replaced, be sure to perform the specified incidental work in order to operate system normally.

## 1. DRIVER MONOTOR CAMERA CONTROL UNIT CONFIGURATION

---

Perform the driver monitor camera control unit configuration with CONSULT. Refer to [Work Procedure](#).

>>

[GO TO 2.](#)

## 2. CHECK DATA MONITOR

---

Check that "Face" is "within range" in "Data monitor" of "Driver Monitor Camera".

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Check installation status of the driver monitor camera control unit (installation position, specified tightening torque, bending of bracket, etc.).

## 3. PERFORM SELF-DIAGNOSIS

---

Check that DTC is detected in self-diagnosis result of "Driver Monitor Camera".

Is DTC detected?

YES>>

Perform a diagnosis of detected DTC and repair or replace the malfunction parts. Refer to [DTC Index](#).

NO>>

WORK END

Symptoms	Check items	Probable malfunction location / Reference
ProPILOT Park does not start when pressing ProPILOT Park switch	Although the screen does not switch to Around View Monitor, pressing the camera switch displays Around View Monitor	ProPILOT Park switch circuit <a href="#">DTC Diagnosis Procedure</a>
	The screen does not switch to the Around View Monitor and the Around View Monitor does not display even if press the camera switch	AV control unit <a href="#">Work Flow</a>
	Screen does not switch even if touch ProPILOT Park switch on the Around View Monitor screen	<ul style="list-style-type: none"> <li>AV control unit</li> <li>Around View Monitor control unit</li> </ul> <a href="#">Work Flow</a>
	The screen switches, but "Unavailable" is displayed	<ul style="list-style-type: none"> <li>When any DTC is stored in the around view monitor. <a href="#">DTC Index</a></li> <li>When DTC is not stored in the around view monitor. <ul style="list-style-type: none"> <li>Any driver, passenger, rear or back door is opened or malfunctioned while Propilot park is in progress .</li> <li>Electric parking brake is operated or malfunctioned while Propilot park is in progress.</li> <li>Shift position is switched to "P" or "N" or malfunctioned while Propilot park is in progress.</li> <li>Door mirrors are closed or malfunctioned while Propilot park is in progress.</li> <li>VDC/TCS/ABS are operated or malfunctioned while Propilot park is in progress.</li> </ul> </li> </ul>
Do not decelerate at the proper position when ProPILOT Park operates	After passing the target frame, "Park Assist canceled" is displayed on the display and the parking operation is interrupted	Brake control system <a href="#">Work Flow</a>
	Pass the target frame and the parking operation is interrupted	<ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a> WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></li> <li>Around View Monitor control unit <a href="#">Work Flow</a></li> </ul>
Stop is not retained after ProPILOT Park operation	Before starting the parking operation, "Park Assist canceled" appears on the display and is interrupted	<ul style="list-style-type: none"> <li>Chassis control module <a href="#">Work Flow</a></li> <li>Electrically-driven intelligent brake unit</li> </ul>

Symptoms	Check items	Probable malfunction location / Reference
		<a href="#">Work Flow</a>
	The vehicle starts to move before the parking operation starts	<ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs</li> </ul> <p>WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <p>WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <ul style="list-style-type: none"> <li>Around View Monitor control unit</li> </ul> <p><a href="#">Work Flow</a></p>
Steering does not operate automatically when ProPILOT Park is operating	"Park Assist canceled" is displayed on the display without following the target frame and the parking operation is interrupted	<p>EPS control unit</p> <p><a href="#">Work Flow</a></p>
	The parking operation is interrupted without following the target frame	<ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs</li> </ul> <p>WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <p>WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <ul style="list-style-type: none"> <li>Around View Monitor control unit</li> </ul> <p><a href="#">Work Flow</a></p>
Shift position does not switch at ProPILOT Park operation	The shift position is not switched at the switching position, "Park Assist canceled" is displayed on the display and the parking operation is interrupted	<p>VCM (Electric shift control module)</p> <p><a href="#">Work Flow</a></p>
	The shift position is not switched at the switching position and the parking operation is interrupted	<ul style="list-style-type: none"> <li>ProPILOT Park switch circuit</li> </ul> <p><a href="#">DTC Diagnosis Procedure</a></p> <ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs</li> </ul> <p>WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <p>WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <ul style="list-style-type: none"> <li>Around View Monitor control unit</li> </ul> <p><a href="#">Work Flow</a></p>
Parking brake does not work when ProPILOT Park operation is completed	Parking brake does not operate at the completion of parking and "Park Assist canceled" is displayed on the display and the parking operation is interrupted	<p>Electric parking brake control module</p> <p><a href="#">Work Flow</a></p>
	When the parking is completed, the parking brake does not operate and the parking operation is interrupted	<ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs</li> </ul> <p>WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <p>WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <ul style="list-style-type: none"> <li>Around View Monitor control unit</li> </ul> <p><a href="#">Work Flow</a></p>

Symptoms	Check items	Probable malfunction location / Reference
Notification sound does not sound when canceling	The operating sound of ProPILOT Park sounds	<ul style="list-style-type: none"> <li>Check ADAS control unit 2 DTCs</li> </ul> <p>WITHOUT ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <p>WITH ProPILOT ASSIST 2.0: <a href="#">DTC Index</a></p> <ul style="list-style-type: none"> <li>Around View Monitor control unit</li> </ul> <p><a href="#">Work Flow</a></p>
It is possible to operate the ProPILOT Park of the door mirror is closed	—	<p>Door mirror folding motor circuit</p> <p><a href="#">Component Function Check</a></p>
No parking operation at the proper position	—	<ul style="list-style-type: none"> <li>There is a possibility that the place of use is not appropriate</li> </ul> <p><a href="#">Precautions for ProPILOT Park</a></p> <ul style="list-style-type: none"> <li>Check if the tire size is correct</li> <li>Check whether the suspension is not replaced except for genuine parts</li> </ul> <p>If the situation is not improved after confirming the above, carry out the calibration. <a href="#">Work Procedure</a></p>



## **PRECAUTIONS FOR I-FCW**

---

Refer to [Precautions for Intelligent Forward Collision Warning](#).

## **PRECAUTIONS FOR LDW**

---

Refer to [Precautions for Lane Departure Warning](#).

## **PRECAUTIONS FOR I-LI**

---

Refer to [Precautions for Intelligent Lane Intervention](#).

## **PRECAUTIONS FOR BSW**

---

Refer to [Precautions for Blind Spot Warning](#).

## **PRECAUTIONS FOR I-BSI**

---

Refer to [Precautions for I-BSI](#).

## **PRECAUTIONS FOR RCTA**

---

Refer to [Precautions for Rear Cross Traffic Alert](#).

## **PRECAUTIONS FOR TSR**

---

Refer to [Precautions for Traffic Sign Recognition](#).

## **PRECAUTIONS FOR I-DA**

---

Refer to [Precautions for Intelligent Driver Alertness](#).

## **PRECAUTIONS FOR ProPILOT Park**

---

Refer to [Precautions for ProPILOT Park](#).

# Symptom Table

SIEMD-7109620

Symptom	Confirmation item	Reference page
All system displays do not display	Combination meter	<a href="#">On Board Diagnosis Function</a>

Sample