

# Your Ultimate Source for OEM Repair Manuals

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## 2017 NISSAN Sentra SE-R OEM Service and Repair Workshop Manual

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The vehicle causes hunting when the ProPILOT Assist system is active.

## 1. PERFORM SELF-DIAGNOSIS OF VCM

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1. Perform “All DTC Reading” with CONSULT.
2. Check if the DTC is detected in self-diagnosis results of “EV/HEV”. Refer to [DTC Index](#).

Is any DTC detected?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 2.](#)

## 2. CHECK DISTANCE SENSOR

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1. Check the vehicle driving conditions. Refer to [Diagnosis Procedure](#).
2. Check the distance sensor for contamination, foreign materials, or cracks.

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[GO TO 3.](#)

## 3. CHECK FRONT CAMERA UNIT

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1. Check the vehicle driving conditions. Refer to [Diagnosis Procedure](#).
2. Check the front camera unit or contamination, foreign materials, or cracks.

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INSPECTION END

## 4. REPAIR OR REPLACE MALFUNCTIONING PARTS

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Repair or replace malfunctioning parts identified by the self-diagnosis result.

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[GO TO 5.](#)

## 5. CHECK ProPILOT ASSIST SYSTEM

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1. Erase the self-diagnosis results, and then perform “All DTC Reading” again after performing the action test. Refer to [Work Procedure](#)(7 inch Information Display) or [Work Procedure](#)(FULL TFT METER).
2. Check that the ProPILOT Assist system is normal.

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INSPECTION END

## PRECAUTIONS FOR ProPILOT ASSIST

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

Sample

# Symptom Table

SIEMD-7106241

Symptoms		Inspection item/Reference page
Operation	System setting cannot be turned ON/OFF	Refer to <a href="#">Diagnosis Procedure</a>
	System cannot be set (ProPILOT Assist switch turns ON/OFF)	Refer to <a href="#">Diagnosis Procedure</a>
	CANCEL switch does not function	VCM
	Resume does not function	
	Set speed does not increase	
	Set distance to a vehicle ahead cannot be changed	Refer to <a href="#">DTC Index</a>
System does not cancel when selector lever sets ON "N"	VCM Refer to <a href="#">DTC Index</a>	
Chime	Chime does not sound	Combination meter Refer to <a href="#">DTC Index</a>
Control	Driving force is hunting	Refer to <a href="#">Diagnosis Procedure</a>
Function to detect a vehicle ahead	System frequently cannot detect a vehicle ahead	Refer to <a href="#">Diagnosis Procedure</a>
	Distance to detect a vehicle ahead is short	
	System misidentifies a vehicle even though there is no vehicle ahead	<ul style="list-style-type: none"> <li>• Perform radar alignment: <a href="#">Work Procedure</a></li> <li>• Camera aiming adjustment: <a href="#">Work Procedure</a></li> <li>• Perform ProPILOT Assist system action test: <a href="#">Work Procedure</a></li> </ul>
	System misidentifies a vehicle in the next lane	
The system does not detect the vehicle ahead at all	Refer to <a href="#">Diagnosis Procedure</a>	
Operation	Turn signal operates even using turn signal	Refer to <a href="#">Diagnosis Procedure</a>

- The ProPILOT Assist display does not appear on the vehicle information display when the ProPILOT Assist switch is pressed.
- When the ProPILOT Assist display is displayed on the vehicle information display, the display does not disappear when the ProPILOT Assist switch is pressed.

## 1. ProPILOT ASSIST SWITCH INSPECTION

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1. Set the vehicle to READY.
2. Check that “MAIN SW” operate normally in “DATA MONITOR” of “ICC/ADAS 2” with CONSULT.

Is the inspection result normal?

YES>>

Check combination meter self-diagnosis results and perform diagnosis on the detected DTC. Refer to [DTC Index](#).

NO>>

Check VCM self-diagnosis results and perform diagnosis on the detected DTC. Refer to [DTC Index](#).

Sample

ProPILOT Assist steering assist function operates even when the turn signals are active.



**NOTE:**

For the operational conditions of steering wheel assistance function. Refer to [System Description](#).

## 1. CHECK TURN SIGNAL OPERATION

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Check that both right and left turn signals are normal.

Is the inspection result normal?

YES >>

Replace the ADAS control unit 2. Refer to [Removal and Installation](#).

NO>>

Repair or replace malfunctioning parts. Refer to [Symptom Table](#).

Sample

When ProPILOT Assist system is active, the ProPILOT Assist system does not perform any control even through there is a vehicle ahead.

## 1. CHECK ProPILOT ASSIST SYSTEM DISPLAY ON INFORMATION DISPLAY

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1. Start the self-diagnosis mode of combination meter. Refer to [On Board Diagnosis Function](#).
2. Check that the information display turns ON normally.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Replace the combination meter.

## 2. VISUAL CHECK (1)

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Check the contamination and foreign matter on the distance sensor area of the front grill.

Do foreign materials adhere?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 3.](#)

## 3. VISUAL CHECK (2)

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1. Remove the front grill. Refer to [Removal & Installation](#).
2. Check distance sensor for contamination and foreign matter.

Do foreign matter adhere?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 5.](#)

## 4. WIPE OUT DIRT AND FOREIGN MATERIALS

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Wipe out the contamination and foreign matter in the area around the distance sensor.

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[GO TO 9.](#)

## 5. VISUAL CHECK (3)

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Check distance sensor for cracks and/or scratches.

Are there cracks?

YES>>

[GO TO 7.](#)

NO>>

[GO TO 6.](#)

## 6. PERFORM RADAR ALIGNMENT

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1. Install the front grill. Refer to [Removal & Installation](#).
2. Perform the radar alignment. Refer to [Work Procedure](#).
3. Perform ProPILOT Assist system action test. Refer to [Work Procedure](#)(7 inch Information Display) or [Work Procedure](#)(FULL TFT METER).
4. Check that the vehicle ahead detection performance improves.

Does it improve?

YES>>

INSPECTION END

NO>>

[GO TO 8.](#)

## 7. REPLACE DISTANCE SENSOR

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1. Replace the distance sensor. Refer to [Removal and Installation](#).
2. Install the front grill. Refer to [Removal & Installation](#).
3. Perform the radar alignment. Refer to [Work Procedure](#).
4. Perform ProPILOT Assist system action test. Refer to [Work Procedure](#)(7 inch Information Display) or [Work Procedure](#)(FULL TFT METER).
5. Check that the vehicle ahead detection performance improves.

Does it improve?

YES>>

INSPECTION END

NO>>

[GO TO 8.](#)

## 8. REPLACE ADAS CONTROL UNIT 2

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Replace ADAS control unit 2. Refer to [Removal and Installation](#).

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[GO TO 9.](#)

## 9. CHECK ProPILOT ASSIST SYSTEM

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1. Erase the self-diagnosis results, and then perform “All DTC Reading” again after performing the action test. Refer to [Work Procedure](#)(7 inch Information Display) or [Work Procedure](#)(FULL TFT METER).



2. Check that the ProPILOT Assist system is normal.

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INSPECTION END

Sample

The ProPILOT Assist switch can be turned ON/OFF; however, ProPILOT Assist cannot be set by pressing the SET- switch.

**NOTE:**

The system cannot be set in the following cases.

- When traveling below 30 km/h (20 MPH) and a vehicle ahead is not detected
- When the shift lever is moved out of the D (Drive) position or into the manual shift mode
- When the parking brake is applied
- When the brakes are operated by the driver
- When the VDC system is OFF
- When the VDC system (including the traction control system) is activated
- When the SNOW mode or OFF-ROAD mode is selected (AWD models)
- When a wheel is slipping
- When any door is open
- When the driver's seat belt is not fastened

## 1. CHECK EACH SWITCH AND VEHICLE SPEED SIGNAL

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1. Set the vehicle to READY.
2. Check that the following items operate normally in "DATA MONITOR" of "ICC/ADAS 2".
  - "Vehicle speed"
  - "SET/COAST SW"
  - "BRAKE SW"

Is there a malfunctioning item?

"Vehicle speed">>

Refer to [DTC Description](#).

"SET/ COAST SW">>

Refer to [DTC Diagnosis Procedure](#).

"BRAKE SW">>

Refer to [DTC Description](#).