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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT RADAR SENSOR SYSTEM: C1A1100; Front Radar Sensor Optical Axis Misalignment Malfunction; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>C1A1100</b>	<b>Front Radar Sensor Optical Axis Misalignment Malfunction</b>
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## DESCRIPTION

The millimeter wave radar sensor assembly performs self-diagnosis to check for misalignment of its beam axis. If misalignment is detected, the millimeter wave radar sensor assembly stores DTC C1A1100.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
C1A1100	Front Radar Sensor Optical Axis Misalignment Malfunction	When the ignition switch is ON, the millimeter wave radar sensor assembly detects beam axis misalignment	<ul style="list-style-type: none"> <li>Millimeter wave radar sensor assembly beam axis adjustment</li> <li>Millimeter wave radar sensor assembly</li> </ul>	Front Radar Sensor	A

## CAUTION / NOTICE / HINT

### NOTICE:

- When replacing the millimeter wave radar sensor assembly, always replace it with a new one. If a millimeter wave radar sensor assembly which was installed to another vehicle is used, the information stored in the millimeter wave radar sensor assembly will not match the information from the vehicle and a DTC may be stored.
- When the millimeter wave radar sensor assembly has been replaced with a new one, it is necessary to perform millimeter wave radar sensor assembly beam axis alignment and to clear the vehicle control history. Before performing the Driving Adjustment, make sure to read Before Starting Driving Adjustment.

### HINT:

Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.

Triangle Target: [Click here](#) INFO

Flat Surface Target: [Click here](#) INFO

Driving Adjustment: [Click here](#) INFO

## PROCEDURE

<b>1.</b>	<b>ADJUST MILLIMETER WAVE RADAR SENSOR ASSEMBLY</b>
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(a) Perform millimeter wave radar sensor assembly beam axis adjustment.

**HINT:**

Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.

Triangle Target: [Click here](#) INFO

Flat Surface Target: [Click here](#) INFO

Driving Adjustment: [Click here](#) INFO

**NEXT**



<b>2.</b>	<b>CLEAR DTC</b>
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(a) Clear the DTCs.

**Body Electrical > Front Radar Sensor > Clear DTCs**

**NEXT**



<b>3.</b>	<b>CHECK FOR DTCs</b>
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Pre-procedure1

- (a) Turn the ignition switch off.
- (b) Turn the ignition switch to ON.
- (c) Make sure that the DTC detection conditions are met.

**HINT:**

If the detection conditions are not met, the system cannot detect the malfunction.

Procedure1

(d) Check for DTCs.

**Body Electrical > Front Radar Sensor > Trouble Codes**

RESULT	PROCEED TO
C1A1100 is not output	A
C1A1100 is output	B

Post-procedure1

(e) None

**A** ▶ **END**

**B** ▶ **REPLACE MILLIMETER WAVE RADAR SENSOR ASSEMBLY** [INFO](#)

