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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: INTUITIVE PARKING ASSIST SYSTEM: C1AE296; Ultrasonic Sensor (Front Left Center) Component Internal Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	C1AE296	Ultrasonic Sensor (Front Left Center) Component Internal Failure
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DESCRIPTION

The front center ultrasonic sensor LH is installed on the front bumper. The clearance warning ECU assembly detects obstacles based on signals it receives from the front center ultrasonic sensor LH. If an open circuit or other malfunction occurs in the front center ultrasonic sensor LH, the front center ultrasonic sensor LH does not operate correctly.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
C1AE296	Ultrasonic Sensor (Front Left Center) Component Internal Failure	Front center ultrasonic sensor LH failure	<ul style="list-style-type: none"> Front center ultrasonic sensor LH Clearance warning ECU assembly 	Clearance Warning	B

CAUTION / NOTICE / HINT

NOTICE:

- Perform registration after replacing and installing the ultrasonic sensor or clearance warning ECU assembly.

Click here [INFO](#)

- If a DTC is detected again after the repair, turn the ignition switch to ON and turn the intuitive parking assist system on, and then clear the DTC.

PROCEDURE

1.	CLEAR DTC
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(a) Clear the DTCs.

Body Electrical > Clearance Warning > Clear DTCs

NEXT



2.	CHECK DTC OUTPUT
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(a) Check for DTCs.

Body Electrical > Clearance Warning > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
C1AE296 and C1AE287 are output	B
C1AE296 is output	C

A ► **USE SIMULATION METHOD TO CHECK**

B ► **GO TO DTC (C1AEC287)**

C



3. REPLACE FRONT CENTER ULTRASONIC SENSOR LH

(a) Replace the front center ultrasonic sensor LH with a known good one.

HINT:

- Click here [INFO](#)
- All of the sensors are interchangeable. To confirm whether a sensor is functioning normally, switch it with a known good sensor from the other end of the vehicle.

NEXT



4. CLEAR DTC

(a) Clear the DTCs.

Body Electrical > Clearance Warning > Clear DTCs

NEXT



5. CHECK DTC OUTPUT

(a) Check for DTCs.

Body Electrical > Clearance Warning > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
C1AE296 is output	B

A ▶ END (FRONT CENTER ULTRASONIC SENSOR LH WAS DEFECTIVE)

B ▶ REPLACE CLEARANCE WARNING ECU ASSEMBLY

