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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: INTUITIVE PARKING ASSIST SYSTEM: C1AE096; Ultrasonic Sensor (Front Left Side) Component Internal Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	C1AE096	Ultrasonic Sensor (Front Left Side) Component Internal Failure
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DESCRIPTION

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

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
C1AE096	Ultrasonic Sensor (Front Left Side) Component Internal Failure	Front side ultrasonic sensor (FLS sensor) failure	<ul style="list-style-type: none"> Front side ultrasonic sensor (FLS sensor) 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.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Clearance Warning > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
C1AE096 and C1AE087 are output	B

RESULT	PROCEED TO
C1AE096 is output	C
None of the above conditions are met	D

A ► **USE SIMULATION METHOD TO CHECK**

B ► **GO TO DTC (C1AE087)**

D ► **GO TO DTC CHART** [INFO](#)

C



2. REPLACE FRONT SIDE ULTRASONIC SENSOR (FLS SENSOR)

(a) Replace the front side ultrasonic sensor (FLS sensor) 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



3. CLEAR DTC

(a) Clear the DTCs.

Body Electrical > Clearance Warning > Clear DTCs

NEXT



4. CHECK FOR DTC

(a) Check for DTCs.

Body Electrical > Clearance Warning > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
C1AE096 is output	B
None of the above conditions are met	C

A ► **END (FRONT SIDE ULTRASONIC SENSOR [FLS SENSOR] WAS DEFECTIVE)**

B ► **REPLACE CLEARANCE WARNING ECU ASSEMBLY**

C ► **GO TO DTC CHART** [INFO](#)

