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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT RADAR SENSOR SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

HOW TO PROCEED WITH TROUBLESHOOTING

CAUTION / NOTICE / HINT

HINT:

- Before performing troubleshooting for the front radar sensor system, perform troubleshooting for the front camera system.

[Click here](#) INFO

- *: Use the GTS.

PROCEDURE

1. VEHICLE BROUGHT TO WORKSHOP

NEXT



2. CUSTOMER PROBLEM ANALYSIS

HINT:

- In troubleshooting, confirm that the problem symptoms have been accurately identified. Preconceptions should be discarded in order to make an accurate judgment. To clearly understand what the problem symptoms are, it is extremely important to ask the customer about the problem and the conditions at the time the malfunction occurred.
- Gather as much information as possible for reference. Past problems that seem unrelated may also help in some cases.
- The following 5 items are important points for problem analysis:

What	Vehicle model, system name
When	Date, time, occurrence frequency
Where	Road conditions
Under what conditions?	Driving conditions, weather conditions
How did it happen?	Problem symptoms

NEXT



3. PRE-CHECK

(a) Measure the auxiliary battery voltage with the ignition switch off.

Standard voltage:
11 to 14 V

HINT:

If the voltage is below 11 V, recharge or replace the auxiliary battery before proceeding to the next step.

(b) Check the fuses and relays.

(c) Check the connector connections and terminals to make sure that there are no abnormalities such as loose connections, deformation, etc.

NEXT



4. CHECK COMMUNICATION FUNCTION OF CAN COMMUNICATION SYSTEM*

(a) Using the GTS, check for CAN communication system DTCs.

for HEV Model: Click here [INFO](#)

for PHEV Model: Click here [INFO](#)

RESULT	PROCEED TO
CAN DTCs are not output	A
CAN DTCs are output	B

B ▶ GO TO CAN COMMUNICATION SYSTEM

for HEV Model: Click here [INFO](#)

for PHEV Model: Click here [INFO](#)

A



5. CHECK FOR DTCs*

(a) Using the GTS, check for DTCs.

Body Electrical > Front Radar Sensor > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
DTC C1A1100 is output	B
DTCs other than C1A1100 are output	C

B ► **GO TO DIAGNOSTIC TROUBLE CODE CHART (C1A1100)**

C ► **GO TO STEP 8**

A



6.	CHECK VEHICLE CONTROL HISTORY (RoB)*
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(a) Using the GTS, check for Vehicle Control History (RoB).

Body Electrical > Front Radar Sensor > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

(b) Make a note of the output Vehicle Control History (RoB).

RESULT	PROCEED TO
Vehicle Control History (RoB) codes are not output	A
Vehicle Control History (RoB) code X2024, X2025, X2026 or X2028 is output	B
Vehicle Control History (RoB) codes other than X2024, X2025, X2026 and X2028 are output	C

A ► **USE SIMULATION METHOD TO CHECK**

B ► **GO TO VEHICLE CONTROL HISTORY (RoB) (X2024, X2025, X2026 or X2028)**



7. RECONFIRM VEHICLE CONTROL HISTORY (RoB)*

(a) Using the GTS, clear the Vehicle Control History (RoB).

Body Electrical > Front Radar Sensor > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

(b) Using the GTS, check for Vehicle Control History (RoB).

Body Electrical > Front Radar Sensor > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

RESULT	PROCEED TO
Vehicle Control History (RoB) codes are not output	A
Vehicle Control History (RoB) codes are output	B

A ► **USE SIMULATION METHOD TO CHECK**

B ► **GO TO VEHICLE CONTROL HISTORY (RoB)**

8. RECONFIRM DTC OUTPUT*

(a) Using the GTS, clear the DTCs.

Body Electrical > Front Radar Sensor > Clear DTCs

(b) Reproduce the vehicle conditions that were present when the DTCs that were noted were stored.

HINT:

Refer to each corresponding DTC for details on the detection conditions.

Click here [INFO](#)

(c) Using the GTS, check for DTCs.

Body Electrical > Front Radar Sensor > Trouble Codes

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

A ► **GO TO STEP 6**

B ► **GO TO DIAGNOSTIC TROUBLE CODE CHART**

