

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BGPS
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT SIDE 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:

- Use the following procedure to troubleshoot the front side radar sensor system.
- *: Use the GTS.

PROCEDURE

1. VEHICLE BROUGHT TO WORKSHOP

NEXT



2. CUSTOMER PROBLEM ANALYSIS

HINT:

If there are any scratches or impact marks on the rear bumper, perform the front side radar beam axis confirmation. If any abnormalities are found, perform the front side radar sensor installation condition inspection.

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 DTC AND FREEZE FRAME DATA*

(a) Using the GTS, check for DTCs.

Body Electrical > Front Side Radar "A" > Trouble Codes

Body Electrical > Front Side Radar "B" > Trouble Codes

(1) Check for DTCs and save.

(2) Check for freeze frame data and save.

(3) Based on the saved DTCs and freeze frame data, simulate the malfunction conditions and check if the DTCs are output again.

RESULT	PROCEED TO
DTCs are not output (symptoms can be confirmed or reproduced)	A
DTCs are not output (symptoms cannot be confirmed or reproduced)	B

RESULT	PROCEED TO
DTCs are output	C

B ► **USE SIMULATION METHOD TO CHECK**

C ► **GO TO DTC CHART**

A



6.	CHECK VEHICLE CONTROL HISTORY*
-----------	---------------------------------------

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

Body Electrical > Front Side Radar "A" > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

Body Electrical > Front Side Radar "B" > 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 is output	B

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

A



7.	PROBLEM SYMPTOMS TABLE
-----------	-------------------------------

(a) Refer to Problem Symptoms Table.

Click here [INFO](#)

RESULT	PROCEED TO
Fault is not listed in Problem Symptoms Table	A
Fault is listed in Problem Symptoms Table	B

B  **GO TO PROBLEM SYMPTOMS TABLE**

A



8.	PERFORM TROUBLESHOOTING BASED ON MALFUNCTION SYMPTOM*
-----------	--

(a) Refer to Terminals of ECU.

Click here [INFO](#)

(b) Refer to Data List / Active Test.

Click here [INFO](#)

NEXT



9.	ADJUST, REPAIR OR REPLACE
-----------	----------------------------------

RESULT	PROCEED TO
When adjusting or repairing	A
When replacing	B

B  **GO TO STEP 11**

A



10. CLEAR DTC

(a) Clear the DTCs.


Body Electrical > Front Side Radar "A" > Clear DTCs


Body Electrical > Front Side Radar "B" > Clear DTCs

NEXT  **GO TO STEP 12**

11. PERFORM BEAM AXIS CONFIRMATION

(a) Confirm the front side radar sensor beam axis display and perform the front side radar sensor beam axis adjustment.

Triangle Target: Click here 

Driving Adjustment: Click here 

ECU DATA SAVE/WRITE: Click here 

NEXT

**12. PERFORM CONFIRMATION TEST**

NEXT  **END**

