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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT CAMERA 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 camera system.
- *: 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 DTC***

(a) Using the GTS, check for DTCs.

Chassis > Front Recognition Camera > Trouble Codes

(b) If a DTC is output, record the DTC.

RESULT	PROCEED TO
DTCs are not output	A
DTC C10001C, C10051C, C100A62, C1A7F49, C1A9346, C1A9447, C1A9500 or C1AA800 is output	B
DTC other than C10001C, C10051C, C100A62, C1A7F49, C1A9346, C1A9447, C1A9500 and C1AA800 is output	C

B ▶ **GO TO DIAGNOSTIC TROUBLE CODE CHART (C10001C, C10051C, C100A62, C1A7F49, C1A9346, C1A9447, C1A9500 or C1AA800)**

C ▶ **GO TO STEP 8**

A ▼

6.	**CHECK VEHICLE CONTROL HISTORY (RoB)***

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

HINT:

Based on the customer interview results, narrow down the cause of the malfunction and check the related Vehicle Control History (RoB).

Chassis > Front Recognition Camera > 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) is not output	A
Vehicle Control History (RoB) 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

A ▶ **USE SIMULATION METHOD TO CHECK**

B ▶ **GO TO PROBLEM SYMPTOMS TABLE**

8.	**RECONFIRM DTC OUTPUT***

(a) Using the GTS, clear the DTCs.

Chassis > Front Recognition Camera > 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.

Chassis > Front Recognition Camera > 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**