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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: TIRE PRESSURE MONITORING: TIRE PRESSURE WARNING SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

HOW TO PROCEED WITH TROUBLESHOOTING

CAUTION / NOTICE / HINT

HINT:

- Use the following procedure to troubleshoot the tire pressure warning system.
- Make sure that the wireless door lock control system has exited diagnostic mode before performing the following procedure.
- *: Use the GTS.

PROCEDURE

1. VEHICLE BROUGHT TO WORKSHOP

NEXT



2. CUSTOMER PROBLEM ANALYSIS

(a) Interview the customer to confirm the problem.

HINT:

It is important to collect as much specific information as possible from the customer to allow for a quick repair.

NEXT



3. ADJUST TIRE PRESSURE*

(a) Using the GTS, display the Data List.

(b) Set the pressure of each tire to the specified value.

NOTICE:

Refer to the link as the procedure for adjusting the tire pressures differs depending on the temperature of the tires.

Click here [INFO](#)

(c) Display "ID Tire Inflation Pressure" in the Data List and check that the tire pressure values match the adjusted pressure amount.

HINT:

It may take a few minutes until the values are displayed.

(d) Perform initialization.

Click here 

HINT:

- The warning threshold value changes depending on the driving conditions during initialization. As a result, the tire pressure warning light may not turn off even if the tire pressure is adjusted to the specified pressure.
- The tire pressure warning system illuminates the tire pressure warning light to warn the driver when any of the following conditions are met:
 - The tire pressure drops to approximately 75% or less of the tire pressure set when the system was initialized.
 - The tire pressure drastically decreases (approximately 20 kPa (0.2 kgf/cm², 2.9 psi) or more within several minutes) to approximately 75% or less of the tire pressure* when the tires are warmed.

*: If initialization is performed and the vehicle is driven for a certain period of time, the tire pressure set during system initialization is adjusted and set to the tire pressure when the tires are warmed from the driving conditions.

HINT:

The tire pressure warning pressure (pressure at which the tire pressure warning light is illuminated) cannot be set to approximately 75% or less of a specified tire pressure value.

NOTICE:

If the tire pressure is decreased approximately 20 kPa (0.2 kgf/cm², 2.9 psi) or more in order to adjust the tire pressure, even if the adjusted tire pressure is 80% or more than the tire pressure set during system initialization, the tire pressure warning light may illuminate if the tire pressure drops below 75% of the tire pressure set when the tires are warmed. In this case, perform initialization again.

RESULT	PROCEED TO
Tire pressure warning light remains on	A
Tire pressure warning light goes off	B

B  **GO TO STEP 11**

A



4.	CHECK ECU CONNECTED TO CAN BUS*
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(a) Check the ECUs connected to the CAN bus.

Click here 

RESULT	PROCEED TO
No malfunction appears	A
Malfunction appears	B

B ► **GO TO CAN COMMUNICATION SYSTEM**

A



5.	CHECK FOR DTC (CAN COMMUNICATION SYSTEM)*
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(a) Check for DTCs.

Click here [INFO](#)

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

B ► **GO TO CAN COMMUNICATION SYSTEM**

A



6.	CHECK DTC AND FREEZE FRAME DATA*
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(a) Check and record DTCs and Freeze Frame Data.

for Freeze Frame Data: Click here [INFO](#)

Chassis > Tire Pressure Monitor > Trouble Codes

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

B  **GO TO STEP 8****A****7. DTC CHART**

(a) Refer to Diagnostic Trouble Code Chart.

NEXT  **GO TO STEP 10****8. PROBLEM SYMPTOMS TABLE**

(a) Refer to Problem Symptoms Table.

Click here 

NEXT**9. CIRCUIT INSPECTION***

(a) Refer to Electronic Circuit Inspection Procedure.

Click here 

NEXT**10. REPAIR OR REPLACE**

(a) Repair or replace parts based on the diagnosis result.

NEXT**11. CONFIRMATION TEST***

(a) Check the Data List to confirm that the tire inflation pressure has been received.

Click here 

(b) Perform initialization.

Click here 

(c) Confirm that the initialization has been completed.

NEXT  **END**

