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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: VEHICLE CONTROL HISTORY (RoB); 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

VEHICLE CONTROL HISTORY (RoB)

NOTICE:

- Vehicle control history may be recorded due to the replacement or repair of related parts.
- When checking the Vehicle Control History, make sure to record the output codes. Then, clear the Vehicle Control History (RoB) and check it again.




CHECK VEHICLE CONTROL HISTORY (RoB) (FRONT RADAR SENSOR SYSTEM)

(a) Read the Vehicle Control History (RoB) according to the display on the GTS.




Body Electrical > Front Radar Sensor > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

Vehicle Control History (RoB)

MULTI-INFORMATION DISPLAY	CODE	TESTER DISPLAY	DESCRIPTION	DIAGNOSTIC NOTE
System Malfunction Visit Your Dealer	X2023	Front Radar Sensor Optical Axis Not Adjusted	History of millimeter wave radar sensor assembly beam axis not being adjusted.	<p>If this Vehicle Control History code is stored, clear the Vehicle Control History (RoB) after performing front beam axis adjustment, and then check that this code is not output again.</p> <p>HINT: Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.</p> <p>Triangle Target: </p> <p>Flat Surface Target: </p> <p>Driving Adjustment: </p>
System Stopped Front Radar In Self Calibration See Owner's Manual	X2024	Front Radar Sensor Temporary Unavailable (Vertical Direction Optical Axis Misalignment)	History of millimeter wave radar sensor assembly beam axis misalignment (vertical).	<p>If this Vehicle Control History code is stored, clear the Vehicle Control History (RoB) after performing front beam axis adjustment, and then check that this code is not output again.</p> <p>HINT: Beam axis alignment of the millimeter wave radar sensor assembly can be performed using</p>

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				<p>either Triangle Target, Flat Surface Target or Driving Adjustment.</p> <p>Triangle Target: INFO</p> <p>Flat Surface Target: INFO</p> <p>Driving Adjustment: INFO</p>
<p>System Stopped Front Radar In Self Calibration See Owner's Manual</p>	<p>X2025</p>	<p>Front Radar Sensor Temporary Unavailable (Horizontal Direction Optical Axis Misalignment)</p>	<p>History of millimeter wave radar sensor assembly beam axis misalignment (horizontal).</p>	<p>If this Vehicle Control History code is stored, clear the Vehicle Control History (RoB) after performing front beam axis adjustment, and then check that this code is not output again.</p> <p>HINT:</p> <p>Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.</p> <p>Triangle Target: INFO</p> <p>Flat Surface Target: INFO</p> <p>Driving Adjustment: INFO</p>
<p>System Stopped Front Radar Sensor Blocked Clean Radar Sensor</p>	<p>X2026</p>	<p>Front Radar Sensor Dirt</p>	<p>History of system operation being temporarily suspended due to the millimeter wave radar sensor assembly not being able to detect objects.</p>	<p>1. Confirm that the following condition is met:</p> <p>There is no foreign matter such as dirt on or around the millimeter wave radar sensor assembly.</p> <ul style="list-style-type: none"> ◦ A cover other than the dedicated radar sensor cover is not installed. ◦ There is no dirt on the radar sensor cover or millimeter wave radar sensor assembly. ◦ An accessory, such as bull bars, a grille guard, etc., which interferes with millimeter radio waves is not installed. ◦ There is no sticker or coating applied to the dedicated radar sensor cover. ◦ There is no foreign matter between the

MULTI- INFORMATION DISPLAY	CODE	TESTER DISPLAY	DESCRIPTION	DIAGNOSTIC NOTE
				<p>radar and radar sensor cover.</p> <ol style="list-style-type: none"> If any foreign matter is found around the millimeter wave radar sensor assembly, remove it. Turn the ignition switch off. Turn the ignition switch to ON. Check that "System Stopped Front Radar Sensor Blocked Clean Radar Sensor" is no longer displayed on the multi-information display. If "System Stopped Front Radar Sensor Blocked Clean Radar Sensor" is still displayed on the multi-information display, perform beam axis adjustment. <p>HINT: Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.</p> <p>Triangle Target: </p> <p>Flat Surface Target: </p> <p>Driving Adjustment: </p> <p>Cause:</p> <p>There is foreign matter such as dirt on or around the millimeter wave radar sensor assembly.</p>
System Stopped Front Radar Sensor Out of Temperature Range Wait until Normal Temperature	X2027	Front Radar Sensor Outside Guaranteed Operating Temperature	History of system operation being temporarily suspended due to the millimeter wave radar sensor assembly being excessively hot or cold.	<ol style="list-style-type: none"> Cool down or warm up the area surrounding the millimeter wave radar sensor assembly. <p>Cause:</p> <p>The following millimeter wave radar sensor assembly conditions are met:</p> <ul style="list-style-type: none"> After being subjected to an extremely cold environment, the area around the millimeter wave radar sensor

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				<p>assembly is -30°C (-22°F) or less.</p> <ul style="list-style-type: none"> ◦ After being subjected to an extremely hot environment, the area around the millimeter wave radar sensor assembly is 70°C (158°F) or more.
System Stopped See Owner's Manual	X2028	Front Radar Sensor Outside Guaranteed Operating Voltage	History of system operation being temporarily suspended due to millimeter wave radar sensor assembly power source voltage being excessively high or low.	<ol style="list-style-type: none"> 1. If this Vehicle Control History code is output, clear the Vehicle Control History (RoB), drive the vehicle at 5 km/h (3 mph) or more and then check if this Vehicle Control History code is output again. 2. If output again, check if the voltage between terminals IGB and SGND of the millimeter wave radar sensor assembly is within the specified range. <p>INFO</p> <p>Cause:</p> <p>The following millimeter wave radar sensor assembly conditions are met:</p> <ul style="list-style-type: none"> ◦ The input voltage decreases to approximately 6 V or less directly after the hybrid system starts.
-	X2076	Wiper Malfunction	The millimeter wave radar sensor assembly received a wiper system malfunction signal from the main body ECU (multiplex network body ECU).	<p>Refer to How to Proceed with Troubleshooting in Wiper and Washer System.</p> <p>INFO</p>
-	X2077	Ambient Temperature Sensor Circuit	The millimeter wave radar sensor assembly received an ambient temperature sensor malfunction signal from the air conditioning amplifier assembly.	<p>Refer to How to Proceed with Troubleshooting in Air Conditioning System.</p> <p>for HEV Model: INFO</p> <p>for PHEV Model: INFO</p>

CLEAR VEHICLE CONTROL HISTORY (RoB) (FRONT RADAR SENSOR SYSTEM)

NOTICE:

By performing this procedure, all stored Vehicle Control History will be cleared.

(a) According to the display on the GTS, clear the Vehicle Control History (RoB).

Body Electrical > Front Radar Sensor > Utility



CHECK VEHICLE CONTROL HISTORY (AIRBAG SYSTEM)

(a) Part of the control history can be confirmed using the Vehicle Control History.

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