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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT SIDE RADAR SENSOR SYSTEM: PRECAUTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

PRECAUTION

PRECAUTIONS FOR DISCONNECTING CABLE FROM NEGATIVE (-) AUXILIARY BATTERY TERMINAL

NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

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HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

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PRECAUTIONS FOR FRONT SIDE RADAR SENSOR SYSTEM

(a) The front side radar function may not detect vehicles correctly in the following conditions:

(1) When the sensor is misaligned due to a strong impact to the sensor or its surrounding area.

(2) When mud, snow, ice, a sticker, etc. is covering the sensor or its surrounding area on the front bumper.

(3) When driving on a road surface that is wet with standing water during bad weather such as heavy rain, snow, or fog.

(4) When there is a significant difference in speed between this vehicle and the vehicle that enters the detection area.

(5) When the difference in speed between this vehicle and another vehicle is changing.

(6) When a vehicle enters a detection area traveling at about the same speed as this vehicle.

(7) As your vehicle starts from a stop, a vehicle remains in the detection area.

(8) When driving up and down consecutive steep inclines, such as hills, dips in the road, etc.

(9) When driving on roads with sharp bends, consecutive curves, or uneven surfaces.

(10) When vehicle lanes are wide, or when driving on the edge of a lane, and the vehicle in an adjacent lane is far away from this vehicle.

(11) When there is a significant difference in height between this vehicle and the vehicle that enters the detection area.

(12) Immediately after the pre-collision system is turned on.

(b) The front side radar function is not designed to detect the following types of vehicles or objects:

*: Depending on conditions, detection of a vehicle and/or object may occur.

(1) Vehicles traveling from the opposite direction.

(2) Small motorcycles, bicycles, pedestrians, etc.*

(3) Following vehicles that are in the same lane.*

(4) Guardrails, walls, signs, parked vehicles and similar stationary objects.*

(5) Vehicles driving 2 lanes across from this vehicle.*

(c) Instances of the front side radar function unnecessarily detecting a vehicle and/or object may increase under the following conditions:

(1) When the sensor is misaligned due to a strong impact to the sensor or its surrounding area.

(2) When a distance between this vehicle and a guardrail, wall, etc. that enters the detection area is short.

(3) When driving up and down consecutive steep inclines, such as hills, dips in the road, etc.

(4) When vehicle lanes are narrow, or when driving on the edge of a lane, and a vehicle traveling in a lane other than the adjacent lanes enters the detection area.

(5) When driving on roads with sharp bends, consecutive curves, or uneven surfaces.

(6) When the tires are slipping or spinning.

(d) Under the following conditions, the front side radar system may store DTCs C1A1700 and C1A1900 by mistake:

(1) The vehicle is driven continuously with the front side radar system on when using a drum tester such as a speedometer tester, brake/speedometer combination tester or chassis dynamometer.

(2) When mud, snow, ice, a sticker, etc. is covering the sensor or surrounding area on the front bumper.

HANDLING THE RADAR SENSOR

(a) Front side radar sensors are installed behind the left and right sides of the front bumper respectively. Observe the following to ensure the front side radar can function correctly.

(1) Keep the sensors and the surrounding areas on the front bumper clean at all times.

(2) Do not subject a sensor or its surrounding area on the front bumper to a strong impact. If a sensor is moved even slightly off position, the system may malfunction and vehicles may not be detected correctly. In the following situations, inspect the sensor and surrounding area.

- A sensor or its surrounding area is subject to a strong impact.
- If the surrounding area of a sensor is scratched or dented, or part of them has become disconnected.

(3) Do not disassemble the sensor.

(4) Do not attach stickers to the sensor or surrounding area on the front bumper.

(5) Do not modify the sensor or surrounding area on the front bumper.

(6) Do not paint the front bumper any color other than an official Toyota color.

(7) Do not drop a sensor or subject it to a strong impact, as it is a high-precision device.

(8) Do not reuse a sensor that has been dropped or subjected to a strong impact.

REPLACEMENT PRECAUTIONS

(a) After replacing the front side radar sensor, make sure to perform ECU writing.

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SENSOR EXPRESSIONS

(a) The descriptions for the front side radar sensor differ depending on the system. The expressions listed in the table below are used in this Repair Manual.

PART NAME	ACTUAL PART NAME
Front side radar sensor (A)	Front side radar sensor (LH)
Front side radar sensor (B)	Front side radar sensor (RH)