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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: BLIND SPOT MONITOR SYSTEM: PRECAUTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

PRECAUTION

PRECAUTION 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 BLIND SPOT MONITOR SYSTEM

- (a) The blind spot monitor 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 rear 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 multiple vehicles are approaching with only a small gap between each vehicle.
 - (5) When the distance between this vehicle and a following vehicle is short.
 - (6) When there is a significant difference in speed between this vehicle and the vehicle that enters the detection area.
 - (7) When the difference in speed between this vehicle and another vehicle is changing.
 - (8) When a vehicle enters a detection area traveling at about the same speed as this vehicle.
 - (9) As this vehicle starts from a stop, a vehicle remains in the detection area.
 - (10) When driving up and down consecutive steep inclines, such as hills, dips in the road, etc.
 - (11) When driving on roads with sharp bends, consecutive curves, or uneven surfaces.
 - (12) 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.
 - (13) When towing a trailer.
 - (14) When a bicycle carrier or other accessory is installed to the rear of the vehicle.
 - (15) When there is a significant difference in height between this vehicle and the vehicle that enters the detection area.
 - (16) Immediately after the blind spot monitor system is turned on.

HINT:

In this section, the expression "this vehicle" is used to refer to the vehicle equipped with this blind spot monitor system.

- (b) The blind spot monitor function is not designed to detect the following types of vehicles or objects:

- (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.
- (6) Vehicles which are overtaking with large difference of speed.*

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

(c) The blind spot monitor system, the outermirror indicator will blink but the buzzer will not sound even when the turn signal switch is operated in the following situations:

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

- (1) When a second vehicle is detected while the direction signal lever is continuously operated
- (2) When overtaking another car traveling in the next lane with a large speed difference*

(d) Instances of the blind spot monitor 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.
- (7) When the distance between this vehicle and a following vehicle is short.
- (8) When a bicycle carrier or other accessory is installed to the rear of the vehicle.
- (9) When towing a trailer.

(e) Under the following conditions, the blind spot monitor system may store DTCs C1AC100 and C1AC200 by mistake:

- (1) The vehicle is driven continuously with the blind spot monitor 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 rear bumper.

(f) The RCTA 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 surrounding area on the rear 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 multiple vehicles are approaching with only a small gap between each vehicle.
- (5) When a vehicle is approaching at high speed.
- (6) When towing a trailer.
- (7) When backing up on a slope with a sharp change in grade.
- (8) When backing out of a shallow angle parking spot.
- (9) Directly after the RCTA function is turned on.
- (10) Directly after the ignition switch is turned to ON with the RCTA function on.

(11) When the sensors cannot detect a vehicle due to obstructions.

(g) The RCTA function is not designed to detect the following types of vehicles or objects:

- (1) Vehicles approaching from directly behind.
- (2) Vehicles backing up in a parking space next to this vehicle.
- (3) Vehicles that the sensors cannot detect due to obstructions.
- (4) Guardrails, walls, signs, parked vehicles and similar stationary objects.*
- (5) Small motorcycles, bicycles, pedestrians, etc.*
- (6) Vehicles moving away from this vehicle.
- (7) Vehicles approaching from the parking spaces next to this vehicle.*

HINT:

In this section, the expression "this vehicle" is used to refer to the vehicle equipped with this blind spot monitor system.

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

(h) Instances of the RCTA function unnecessarily detecting a vehicle and/or object may increase under the following condition:

- (1) When a vehicle passes by the side of this vehicle.
- (2) When the parking space faces a street and vehicles are being driven on the street.
- (3) When the distance between this vehicle and metal objects, such as a guardrail, wall, sign, or parked vehicle, which may reflect electrical waves toward the rear of the vehicle, is short

HINT:

In this section, the expression "this vehicle" is used to refer to the vehicle equipped with this blind spot monitor system.

(i) The safe exit assist system does not operate in the following conditions.

- (1) When 3 minutes or more have elapsed since the ignition switch was turned off or the hybrid system was stopped (the time which operation is possible may be extended if a door is opened and closed)
- (2) The vehicle is not completely stopped.

(j) The safe exit assist system does not detect the following objects, such as vehicles, bicycles, etc.:

*: Depending on the conditions, detection may occur.

- (1) Vehicles or bicycles which are approaching slowly*
- (2) Vehicles or bicycles which are determined to have a low possibility of colliding with a door (other than the back door or luggage compartment door) when opened*
- (3) Vehicles or bicycles which are approaching from directly behind*
- (4) Vehicles or bicycles which are approaching from the front*
- (5) Guardrails, walls, signs, parked vehicles, and other stationary objects.*
- (6) Pedestrians, animals, etc.*

(k) In the following situations, vehicles and bicycles may not be able to be detected correctly:

- (1) A sensor is moved or misaligned due to a strong impact applied to the sensor or area around the sensor
- (2) A sticker, mud, snow, ice, etc. is covering a sensor or surrounding area on the rear bumper
- (3) When the vehicle is stopped on a wet road surface, such as in a puddle, while in inclement weather, such as heavy rain, snow, fog, etc.

- (4) When a vehicle or bicycle approaches from behind a nearby parked vehicle or when an approaching vehicle or bicycle suddenly changes direction
 - (5) Immediately after a vehicle or bicycle starts moving or when the back door is open
 - (6) An accessory such as a bicycle carrier or access ramp is installed to the rear of the vehicle
 - (7) When a parked vehicle, wall, sign, person or other stationary object is behind the vehicle
 - (8) When the vehicle is stopped at an angle to the road
 - (9) When a vehicle is traveling near an approaching vehicle or bicycle
 - (10) When an approaching vehicle or bicycle is traveling along a stationary object, such a wall or sign
 - (11) When a vehicle or bicycle is approaching at high speed
 - (12) When the vehicle is being towed
 - (13) When stopped on a steep slope
 - (14) When stopped on a curve or at the exit of a curve
- (l) Instances of unnecessary detection may increase especially in situations such as the following:
- (1) A sensor is moved or misaligned due to a strong impact applied to the sensor or area around the sensor
 - (2) When a vehicle or bicycle approaches from behind this vehicle at an angle
 - (3) When the vehicle is stopped at an angle to the road
 - (4) When a vehicle or bicycle approaches from behind a vehicle that is parked at an angle
 - (5) When a parked vehicle, wall, sign, person or other stationary object is behind the vehicle
 - (6) When an approaching vehicle or bicycle behind this vehicle suddenly changes direction
 - (7) When an approaching vehicle or bicycle is traveling along a stationary object, such a wall or sign
 - (8) When the back door is open
 - (9) An accessory such as a bicycle carrier or access ramp is installed to the rear of the vehicle
 - (10) When a vehicle or bicycle is approaching at high speed
 - (11) When the vehicle is being towed
 - (12) When stopped on a steep slope
 - (13) When stopped on a curve or at the exit of a curve

HANDLING THE RADAR SENSOR

- (a) Blind spot monitor sensors are installed behind the left and right sides of the rear bumper respectively. Observe the following to ensure the blind spot monitor can function correctly.
- (1) Keep the sensors and the surrounding areas on the rear bumper clean at all times.
 - (2) Do not subject a sensor or its surrounding area on the rear 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 subjected 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 install accessories in the blind spot monitor sensors and the rear bumper near the blind spot sensors and apply any sticker (including a transparent one) and aluminum tape.
 - (5) Do not modify the sensor or surrounding area on the rear bumper.
 - (6) Do not paint the rear bumper any color other than an official Lexus 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 blind spot monitor sensor, make sure to perform ECU writing.

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SENSOR EXPRESSIONS

(a) The descriptions for the blind spot monitor sensors differ depending on the system. The expressions listed in the table below are used in this Repair Manual.

PART NAME	ACTUAL PART NAME
Blind spot monitor sensor (B)	Blind spot monitor sensor LH
Blind spot monitor sensor (A)	Blind spot monitor sensor RH

