Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000289MI	
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT RADAR SENSOR SYSTEM: PRECAUTION; 2023 - 2024 MY			
Prius Prius Prime [12/2022 -]			

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.

Click here

HINT:

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

Click here

PRECAUTIONS FOR FRONT RADAR SENSOR SYSTEM

(a) The millimeter wave radar sensor assembly may not be able to reliably detect the following objects:

- Pylons made from plastic, etc., glass surfaces such as the entrance to a convenience store, low to the ground objects such as curbs, etc.
- Persons or objects laying down
- Pedestrians, bicycles, motorcycles, trees, animals, walls, etc.

(b) The millimeter wave radar sensor assembly may not be able to detect obstacles or accurately measure the distance, angle or speed of obstacles in the following situations:

- When the preceding vehicle or vehicles travelling in another lane splashes water or kicks up snow at the front of the vehicle
- When the rear end of the preceding vehicle is small (such as an empty trailer)
- When the posture of the vehicle has changed greatly due to modifications or overloading
- When raindrops or snow is stuck on the front of the sensor or on the front or back of the radar sensor cover
- When driving in bad weather (rain, fog, snow, sandstorms, etc.)
- When the front grille or radar sensor cover has been subjected to a strong impact
- When the radar sensor cover is damaged as a result of an impact, or the installation condition of the millimeter wave radar sensor assembly has changed
- When a vehicle cuts closely in front of the vehicle, or when a two-wheeled vehicle is being driven close by
- When a non-genuine radar sensor cover is installed
- When an accessory, such as bull bars, a grille guard, etc., which interferes with millimeter radio waves is installed in front of the millimeter wave radar sensor assembly
- When the radar sensor cover and its surrounding area has been painted or is covered with a sticker
- When driving near a TV tower, broadcasting station, electric power plant, radar equipped vehicles, etc., or other location where strong radio waves or electrical noise may be present
- (c) The sensor may mistakenly detect signs over the road, structures such as traffic lights, ceilings of tunnels, steel plates on the road, high bridges, bridge seams, manholes, cat's eyes, gutters, bottles, cans, etc.
- (d) The sensor may mistakenly detect vehicles driving around curves nearby and vehicles driving in the distance as though they are driving in the same lane as the vehicle.

12/9/24, 4:34 PM ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT RADAR SENSOR SYSTEM: PRECAUTION; 2023 - 2024 MY Prius Prius P...

- (e) The sensor may mistakenly detect or fail to detect objects when driving in an environment where there are many reflective objects around, such as a tunnel.
- (f) The following objects may hinder the sensor's ability to detect objects. Therefore, always make sure that the radar sensor cover and the front of the millimeter wave radar sensor assembly are kept clean.
 - Mud, insects, oil, etc.
 - Snow
 - Metal film (aluminum foil, candy wrappers that have a metallic coating, etc.)

PRECAUTIONS WHEN REPLACING MILLIMETER WAVE RADAR SENSOR ASSEMBLY

(a) Millimeter wave radar sensor assembly foreign matter, obstruction, and dirt detection function:

- The millimeter wave radar sensor assembly is equipped with a function to detect foreign matter, obstructions or dirt on the front of the sensor, however depending on conditions, foreign matter, obstructions, or dirt on the front surface of the sensor or on the front or rear surface of the radar sensor cover may not always be detected.
- The foreign matter, obstruction and dirt detection function may not operate if there is a metal object or metallic coated plastic bag tightly adhered to the sensor or cover.
- The foreign matter, obstruction and dirt detection function may not operate if ice or icicles are attached to the sensor or cover.
- (b) Do not subject the millimeter wave radar sensor assembly or its surrounding area to strong impacts or excessive force. Do not disassemble the millimeter wave radar sensor assembly.
- (c) Do not use a millimeter wave radar sensor assembly that has been dropped or subjected to a strong impact.
- (d) When replacing the millimeter wave radar sensor assembly, try to avoid touching any part of it other than the mounting portions and the edges.
- (e) If the bumper or front grille has been subjected to an impact, the system may not operate correctly due to damage to the millimeter wave radar sensor assembly or misalignment of the beam axis.
- (f) To prevent incorrect operation, do not modify, paint, or replace the radar sensor cover or other parts around the millimeter wave radar sensor assembly.
- (g) Do not attach stickers or accessories to the millimeter wave radar sensor assembly, the radar sensor cover or its surrounding area.
- (h) Do not apply excessive force to the radar sensor cover or subject it to strong impacts.
- (i) Before getting in the vehicle, clear away any accumulated snow from the surface of the radar sensor cover.
- (j) Before getting in the vehicle, clean away any foreign matter, obstructions, or dirt adhering to the surface of the radar sensor cover.
- (k) Do not modify the vehicle in any way that would change its height or posture.
- (I) Do not erase any printed characters marked on components.

REPLACEMENT PRECAUTIONS

- (a) Millimeter wave radar sensor assembly:
 - (1) When replacing the millimeter wave radar sensor assembly, always replace it with a new one. If a millimeter wave radar sensor assembly which was installed to another vehicle is used, the information stored in the millimeter wave radar sensor assembly will not match the information from the vehicle and a DTC may be stored.
 - (2) When the millimeter wave radar sensor assembly has been replaced with a new one, it is necessary to perform millimeter wave radar sensor assembly beam axis alignment and to clear the vehicle control history. Before performing the Driving Adjustment, make sure to read Before Starting Driving Adjustment.

HINT:

12/9/24, 4:34 PM ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT RADAR SENSOR SYSTEM: PRECAUTION; 2023 - 2024 MY Prius Prius P... Beam axis alignment of the millimeter wave radar sensor assembly can be performed using either Triangle Target, Flat Surface Target or Driving Adjustment.

Triangle Target: Click here

Flat Surface Target: Click here

Driving Adjustment: Click here

- (b) Forward recognition camera:
 - (1) When replacing the forward recognition camera, always replace it with a new one. If a forward recognition camera which was installed to another vehicle is used, the information stored in the forward recognition camera will not match the information from the vehicle and a DTC may be stored.
 - (2) When the forward recognition camera has been replaced with a new one, make sure to clear all stored vehicle control history of each system and the forward recognition camera beam axis alignment data.

HINT:

Forward recognition camera beam axis alignment can be performed by using "One Time Recognition", "Driving Adjustment" or "Camera Axis Adjustment Value Write".

One Time Recognition: Click here

Driving Adjustment: Click here

Camera Axis Adjustment Value Write: Click here

(3) Do not damage the forward recognition camera lens or allow it to become dirty.

NOTICE:

If the forward recognition camera lens is touched, replace the forward recognition camera with a new one.

- (4) Do not reuse a forward recognition camera that has been dropped or subjected to a strong impact.
- (5) When the forward recognition camera is replaced, update the ECU security key.

Click here

(6) If the forward recognition camera has been replaced with a new one, make sure to perform Software Version Confirmation.

Click here

•

Ф ТОУОТА