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Title: ADVANCED PARK: ADVANCED PARK: PRECAUTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

PRECAUTION

PRECAUTIONS WHEN REPLACING CLEARANCE WARNING ECU ASSEMBLY

NOTICE:

When the clearance warning ECU assembly is replaced, update the ECU security key.

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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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PRECAUTION FOR SERVICING VEHICLE

(a) After ECUs or parts are removed and installed, or replaced during inspection or servicing the vehicle, it is necessary to perform certain procedures (adjustment, calibration, initialization or registration).

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(b) Because the camera installation angle will change when the camera malfunctions or is replaced, it is necessary to perform registration of the memory function again.

(c) If tires other than those installed by the manufacturer are used when replacing tires, the system may not operate normally or the display positions of lines or frames shown on the radio and display receiver may be incorrect.

NOTES FOR EACH TELEVISION CAMERA ASSEMBLY

(a) Notes for each television camera assembly:

- (1) The advanced park may not function properly if subjected to a severe blow by any hard object.
- (2) Do not scrub the cover part of the camera (resin made). Scrubbing may scratch the cover and affect the image. Prevent organic solvents, waxes, bond removing solvents or glass coating from adhering to the cover. If such material adheres to the cover, clean it off immediately and wash it with water.
- (3) Exposing the camera to a sudden temperature change may affect proper functioning of the camera.
- (4) A clear image may not appear if the camera is dirty with snow, mud, etc. In that case, wash it with water and wipe off the lens. Use a detergent to remove dirt if necessary.
- (5) When washing the vehicle with a high-pressure washer, do not spray water on the television camera assembly or surrounding area. High-pressure water can damage the camera.

(b) Images may be unclear even in normal conditions if:

- (1) The outer mirror switch assembly is operated (noise may occur in the image).
- (2) Electrical devices are used in the cabin (noise may occur in the image).

- (3) Accessories that generate radio waves have been installed (noise may occur in the image).
 - (4) The camera lens is frosted over (the image immediately after turning the ignition switch to ON may be blurred or darker than normal).
 - (5) The camera lens is dirty with snow, mud, etc.
 - (6) The lens of a camera is covered with foreign matter.
 - (7) A strong beam of light, such as a sunbeam or headlight, hits the camera.
 - (8) It is too dark around the camera (at night, etc.).
 - (9) The ambient temperature around the camera is either too high or too low.
 - (10) The vehicle is tilted at a steep angle.
 - (11) The area around the vehicle is not sufficiently bright.
 - (12) The television camera assembly lens is scratched.
 - (13) The television camera assembly lens has drops of water on it or the humidity is high.
 - (14) When the camera is used under fluorescent lights, sodium lights or mercury lights, etc., the lights and the illuminated area may appear to flicker.
 - (15) As the side outer mirror is equipped with a parking assist light and the side camera reacts even to infrared rays, the camera image may differ from how objects look under visible light because the infrared rays in sunlight or halogen lights, or the light emitted from the parking assist light may cause the color of the camera image to become lighter or the color shade to change.
- (c) In situations similar to the following, the parking space detection function may not operate correctly.
- (1) The camera lens is dirty with snow, mud, etc.
 - (2) The lens of a camera is covered with foreign matter.
 - (3) A strong beam of light, such as a sunbeam or headlight, hits the camera.
 - (4) It is too dark around the camera (at night, etc.).
 - (5) The vehicle is tilted at a steep angle.
 - (6) The television camera assembly lens is scratched.
 - (7) The television camera assembly lens has drops of water on it or the humidity is high.

PRECAUTION FOR PARKING ASSIST LIGHT

(a) Precautions

- (1) Do not apply excessive force to the camera lens of the parking assist lights or subject them to a strong impact as it may affect proper functioning of the parking assist lights.
 - (2) Do not scrub the camera lens of the parking assist lights as scrubbing may scratch the lens and affect the quality of the image.
 - (3) The cover parts of the parking assist lights are made of resin. If any organic solvent, degreaser, wax or glass coating contacts a cover, immediately wipe it off and wash the cover with water or cracks may develop.
 - (4) Do not expose the parking assist lights to sudden temperature changes (such as pouring hot water in cold weather) as it may affect proper functioning of the panoramic view monitor system.
 - (5) If there is foreign matter such as water drops, snow or mud on the camera lenses of the parking assist lights, wash the cameras with a large amount of water and then wipe the lenses with a soft wet cloth. Do not scrub the camera lenses as scrubbing may scratch them and may adversely affect operation.
 - (6) When washing the vehicle with a high-pressure washer, do not spray water on the parking assist lights or surrounding area. High-pressure water can damage the parking assist lights.
- (b) If the quality of the image is poor even when the system is operating normally.

- (1) A foreign object is attached to a camera lens
- (2) A camera lens is covered with foreign matter, etc.
- (3) The temperature around a camera lens is excessively high or low
- (4) The vehicle or road is on an incline
- (5) A camera lens is scratched
- (6) A camera lens has water droplets on it or the humidity is high

PRECAUTIONS FOR ULTRASONIC SENSOR

(a) Under the following conditions, the detection function may not function properly:

HINT:

- In very cold weather where a malfunction display appears, the sensor may not be able to detect obstacles.
- If a sensor malfunction is detected, advanced park DTCs will be stored.
- If the malfunction display appears, visually check the sensor first. If the sensor is free of foreign matter but the malfunction display remains, the sensor may have a malfunction.

- (1) A sensor, the front bumper or rear bumper is not installed in the correct position.
- (2) A sensor is improperly located due to damage to the front bumper or rear bumper.
- (3) A sensor is covered with foreign matter, such as mud or snow (detection function returns to normal when the sensor is cleaned).
- (4) A sensor is frozen (detection function returns to normal when the temperature of the sensor rises).
- (5) A hand is blocking a sensor.
- (6) The wind is strong.
- (7) In severe weather such as fog, snow or a sandstorm.
- (8) The height of the vehicle has drastically changed due to loading (the nose tilts up or down).
- (9) When washing the vehicle with a high-pressure washer, do not spray water directly on a sensor or surrounding area. high-pressure water can damage sensors.

(b) The detection range may be affected by the following conditions:

HINT:

Depending on the shape of a parked vehicle or an obstacle such as a wall or post near a parking space, the detection range may change even though the sensors are operating normally.

- (1) A sensor, the front bumper or rear bumper is not installed in the correct position.
- (2) A sensor is improperly located due to damage to the front bumper or rear bumper.
- (3) A sensor is covered with foreign matter, such as mud or snow.
- (4) The vehicle is in an excessively hot or excessively cold area.

(c) Under the following conditions, a detection error may occur:

HINT:

Depending on the shape of a parked vehicle or an obstacle such as a wall or post near a parking space, the detection range may change even though the sensors are operating normally.

- (1) There is a wall near the parking space.
- (2) A sensor, the front bumper or rear bumper is not installed in the correct position.
- (3) A sensor is improperly located due to damage to the front bumper or rear bumper.
- (4) Driving on a bumpy road, an unpaved road or in tall grass.
- (5) Ultrasonic waves are received from the horn or parking sonar system of another vehicle, a motorcycle engine, or the air brakes of a large vehicle.

- (6) It is raining heavily or the sensor is splashed with water.
 - (7) The vehicle is tilted at a steep angle.
 - (8) The vehicle is equipped with a fender pole or a wireless antenna mechanism.
 - (9) A sensor is covered with foreign matter, such as mud or snow.
- (d) Objects may not be detected by the sensors depending on its shape. The following are examples:
- (1) Thin objects such as wires, fences and ropes.
 - (2) Materials such as snow that are likely to absorb ultrasonic waves.
 - (3) Objects with a sharp edge.
 - (4) Short objects.
 - (5) Objects that are tall and protrude toward the vehicle above the detection range of the sensors.
 - (6) Objects other than parked vehicles, such as posts or walls.
- (e) Other notices:
- (1) The sensors cannot detect objects directly under the bumper. (A sensor may detect low objects and thin poles, and then lose track of them.)
 - (2) The sensors may not be able to detect obstacles that are too close to the sensor.
 - (3) The sensors may not be able to detect obstacles if the sensors have been dropped or subjected to a strong impact.

PRECAUTION FOR MEMORY FUNCTION

- (a) If a parking position is registered under the following conditions, registration to the set position and the use of parking assist the next time the vehicle is parked may not be possible.
- (1) When a camera lens is dirty or covered with water droplets
 - (2) It is raining or snowing
 - (3) When the surrounding area is dark (at night, etc.)
- (b) Registration of parking positions may not be possible in the following environments.
- (1) Parking lots with insufficient road widths and insufficient space for parking positions.
 - (2) Parking lots without parking lines around the parking position that can be recognized by the system.
- (c) If a parking position is registered in the following environments, parking assist may not start the next time the vehicle is parked or the use of parking assist may not be possible at the set position.
- (1) When shadows are cast on the parking space (there is a carport over the parking space, etc.)
 - (2) When there are leaves, garbage, or other objects which will likely move, in the parking space
 - (3) When the road surface around the parking position is composed of the same pattern (brick, etc.).
- (d) Parking in the set position using parking assist may not be possible under the following conditions.
- (1) When the image is affected by the shadow of the vehicle or trees, etc.
 - (2) When an obstacle is blocking the set parking position.
 - (3) When pedestrians or another moving vehicle is detected during parking assist.
 - (4) When the position at which the vehicle is stopped at the start of parking assist is different from that when registered.
 - (5) When the set parking position is cannot be reached due to wheels being blocked, etc.
 - (6) When the parking lines around the parking position have changed (due to road surface deterioration due to age or renovations, etc.).
 - (7) When sunlight conditions are different than those when registered (due to weather or time of day, etc.).

- (8) When the sun is shining directly into a camera, such as in the early morning or evening.
 - (9) When the parking position is subjected to temporary light (such as that from the headlights of other vehicles or security lights).
 - (10) There is foreign matter on the camera lens surface
 - (11) When there is a low protrusion on the road surface near the parking space.
 - (12) Parking spaces on a slope.
 - (13) When a camera has been splashed by hot or cold water and the lens has fogged up.
 - (14) When a camera lens is dirty or covered with water droplets.
 - (15) When accessories which obstruct the view of the camera are installed.
- (e) It is necessary to perform registration again when control is stopped during memory function registration.
 - (f) When registering a parking space to the memory function, if the road surface cannot be detected "Location to be Registered Cannot be Found" may be displayed.
 - (g) If the intended parking area is not right next to the vehicle when the memory function starts, the parking location may not be able to be detected correctly or the parking assist may not be able to continue functioning until the parking operation is complete.
 - (h) If a camera has been repaired or replaced, as the installation angle of the camera will have changed, it will be necessary to reregister parking spaces of the memory function.

