

Warning Message

- A warning message appears at the bottom or the center of the screen under the conditions listed below, regardless of whether the system is in the manual or parallel parking assist mode. The warning message appears in the same language that has been selected by the language selector of the navigation screen display (from among English, Danish, Dutch, French, German, Italian, Spanish and Swedish).

Message appearing at the Bottom on the screen

Warning Message	Outline
Checks surroundings for safety	This message always appears during system operation.
System initializing	This message appears when the system is restarted if the television camera ECU detects that a battery terminal has been disconnected and subsequently reconnected.
Guidance unavailable	This message is displayed under the following situations: · When the vehicle is moved backward further, even though a message, “Steering wheel turned too far, please return”, is displayed in the center of the display and also the system judges it is impossible to perform the assist operation.* · When the television camera ECU receives the flag for disabling relative angle from VGRS ECU.*

❖ REFERENCE ❖

* : It is not necessary to replace the VGRS ECU.

Message appearing at the center on the screen

Warning Message	Outline
System not ready	This message appears if the system is started without initializing after a part is replaced.
Steering wheel is turned too far, please return	This message is displayed when the system cannot perform the assist operation under the following situations: · When the vehicle starts in the parallel parking assist mode, a side-to-side clearance between your vehicle and the other parked vehicles is not approximately 1 m (3.3 ft.) (too far or too close). · The steering wheel is turned too far.

Operation

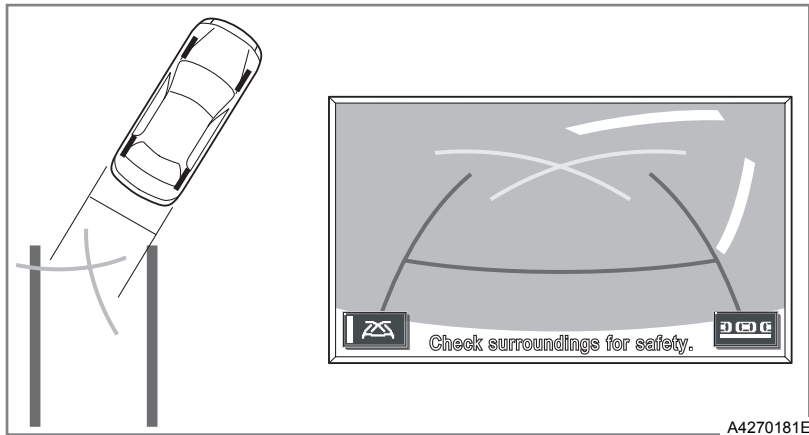
- Listed below are some examples of operating the system in the manual assist mode and parallel parking assist mode.

❑ NOTICE

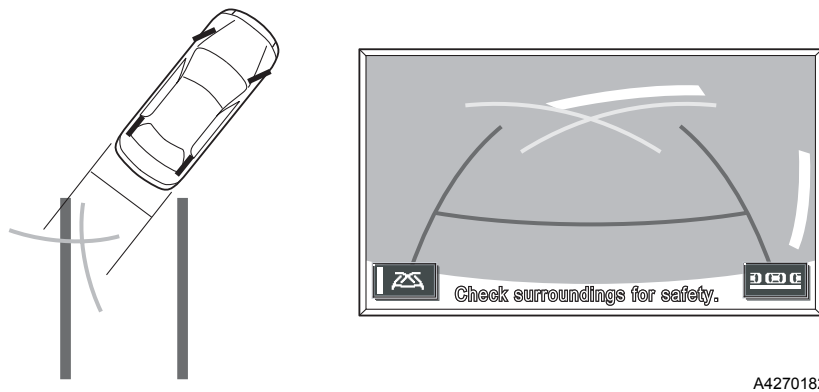
- Do not rely entirely on the rear view monitor system. Use caution, just as you would when backing up any vehicle.
- Never back up while looking only at the screen. The image on the screen may differ from actual conditions. If you back up while looking only at the screen, you may hit a vehicle or have an unexpected accident. When backing up, be sure to check visually behind and all around the vehicle, both directly and with mirrors, before proceeding.
- Use your own eyes to assure rearward clearance, as the displayed image may become faint or dark, and moving images will be distorted or not entirely visible when outside temperature is cold.
- Make sure to use the system with the trunk closed properly.
- Never use the system in the following conditions. Otherwise, you may hit a vehicle or have an unexpected accident.
 - When the road is slippery due to an icy road, snowy road, etc.
 - When using tire chain.

Manual Assist Mode

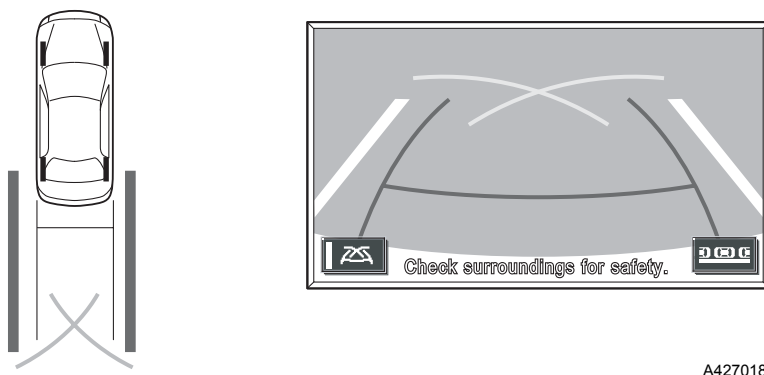
- To use the manual assist mode to park the vehicle in the parking space illustrated below, perform the following procedure:
- Move the shift lever to reverse.
- Verify that the manual assist mode is selected.
- An image appears on the display panel as illustrated on the right.



- Back the vehicle and stop at the position in which the parking guide line comes in contact with the left side of the intended parking position.
- Turn the steering wheel fully to the right and back the vehicle.

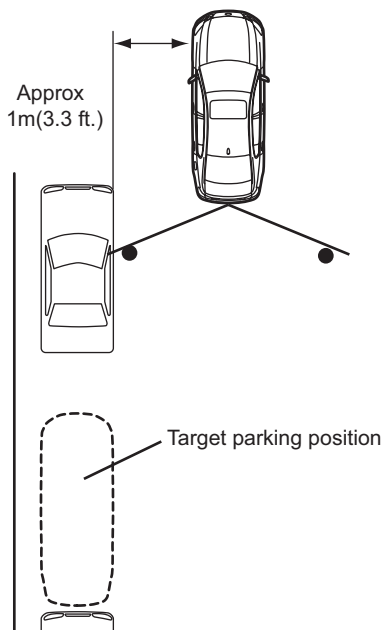


- Continue backing the vehicle until the vehicle is parallel to the plotted lines.
- Once the vehicle is parallel, aim the steering wheel straight ahead and back the vehicle to the target stop position.



Parallel Parking Assist Mode

- To use the parallel parking assist mode to park the vehicle in the parking space illustrated below, perform the following procedure:
- Stop the vehicle parallel to the road or the curb, at a side-to-side clearance of approximately 1 m (3.3 ft.) from the parked vehicle, approximately one-half car length forward of the parked vehicle.



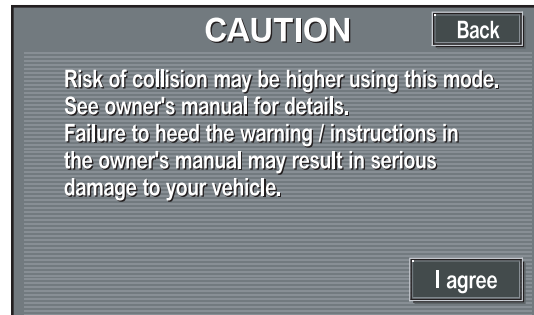
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- Aim the steering wheel straight ahead and move the shift lever to reverse.
- Verify that the parallel parking assist mode is selected.
- An image shows on the display panel as illustrated below.



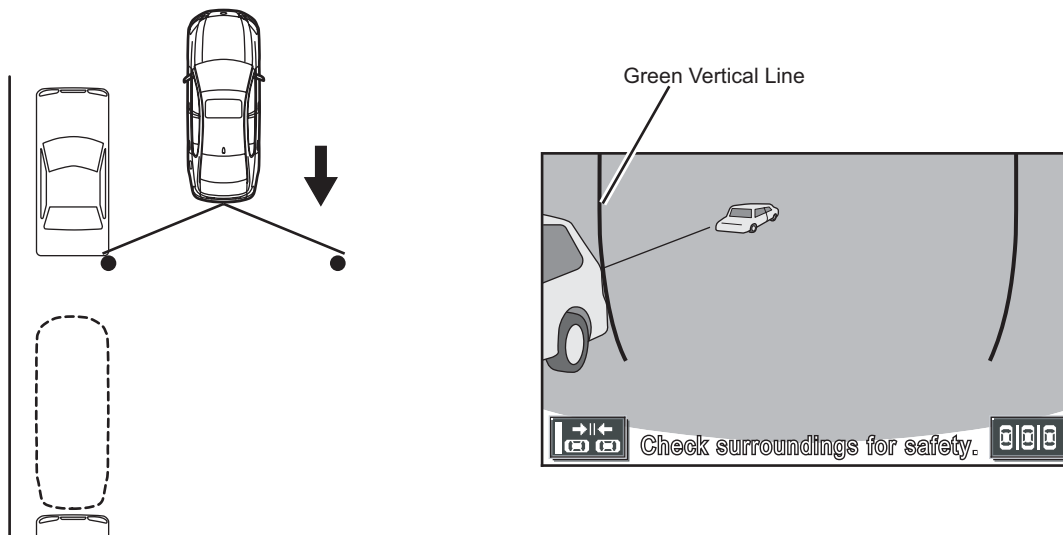
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- Press the mode select switch to select either the standard mode or narrow mode.
- The message shown below appears if the narrow mode is selected. When the driver agrees to this message, the display changes to the narrow mode.



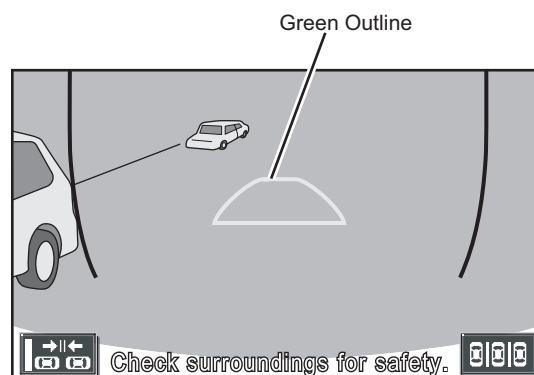
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- Drive the vehicle straight back and stop when the green vertical line of the target parking position is aligned with the rear end of the parked vehicle.



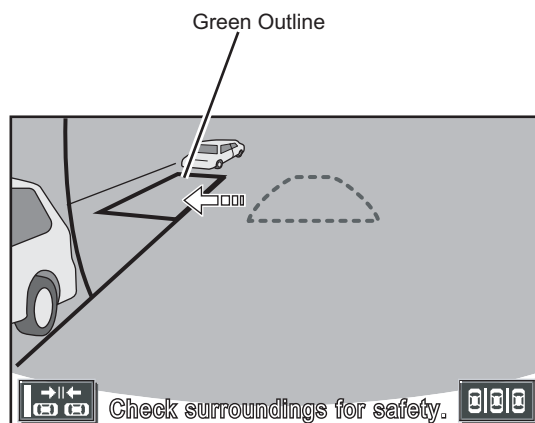
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- The green outline appears on the screen after 5 seconds elapse from the time the shift lever is moved to reverse, or if the steering wheel is turned with the vehicle at a standstill.



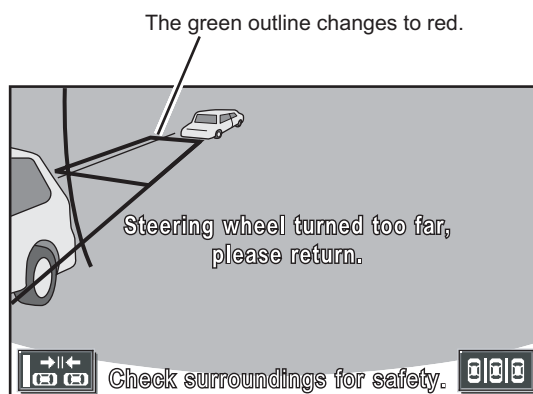
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- Continue turning the steering wheel, and the green outline will move in the direction of the target parking position, while the outline changes into a shape as illustrated below.
- Keep turning the steering wheel until the green outline reaches the target parking position.
- At this time, the green vertical line opposite to the target parking position disappears when the steering wheel is turned more than 90 degrees.



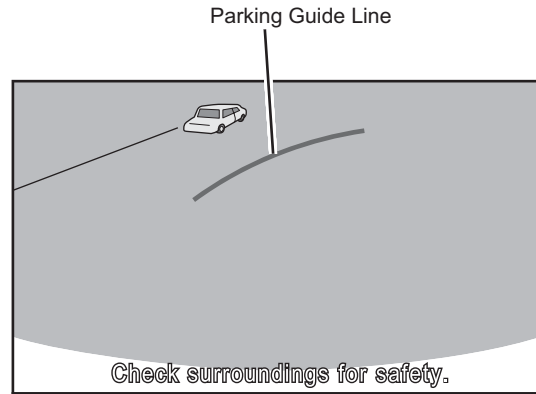
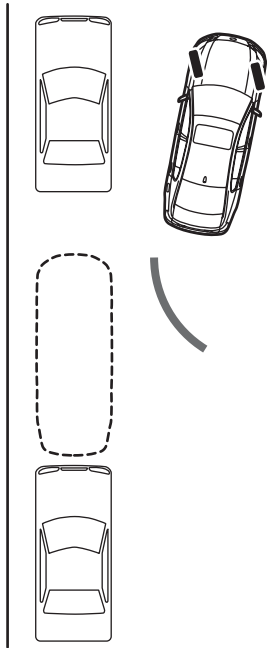
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- However, if the steering wheel is turned too much, the message as shown in the illustration below is displayed and the green outline change to red to inform the driver that the assist operation is not capable.
- Also, when your vehicle is away from the shoulders too much, the same condition will occur even adjusting the green outline at the normal position.



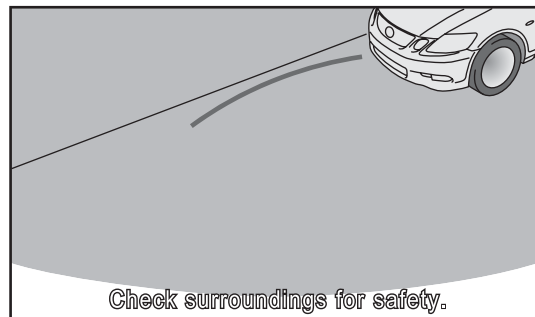
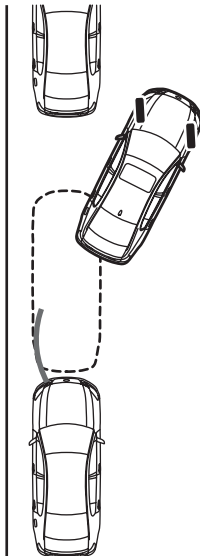
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- Keep the steering wheel in the same position and start backing up. Then, the green vertical line and green outline disappear, and a parking guide line (maximum steering angle line) appears in the direction of the target parking position.



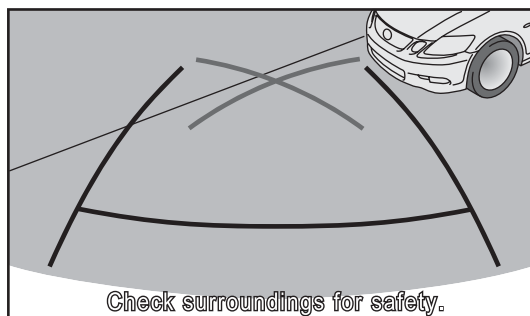
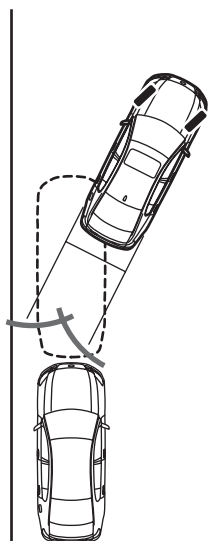
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- Keep the steering wheel in the same position and back up. Stop when the parking guide line reaches the left end of the target parking position.



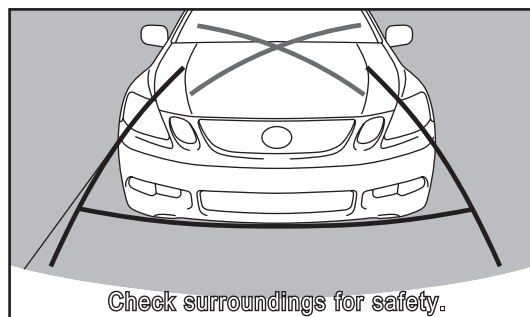
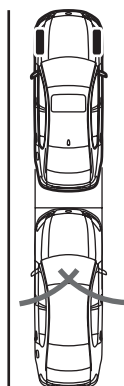
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- With the vehicle at a standstill, fully turn the steering wheel in the opposite direction. Then, as illustrated on the right, the same guide line appears as in the manual assist mode.



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- Using the distance guide line, slowly back the vehicle until the vehicle is parallel to the road or curb, while paying attention to the vehicles in front and in back. The parking maneuver is completed once the vehicle is parallel.



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■ Service Tip ■

- If a battery terminal is disconnected, the assist function will not operate properly. This is because the present neutral steering point that is detected by the steering angle sensor does not match the neutral steering point that is stored in the memory of the television camera ECU.
- Therefore, if the television camera ECU detects that a battery terminal has been disconnected and the system is operated again by subsequently reconnecting the battery terminal, a "System initializing" warning message appears at the bottom of the screen. When this occurs, take one of the following corrective actions:
 - With the engine switch IG-ON and the vehicle at a standstill, fully turn the steering wheel to the right, then fully turn it to the left (this procedure can be started either with a right or left turn).
 - Drive the vehicle for approximately 5 minutes on the road with a minimal number of cues.