

Function operation status

- The Remote Operation function shows the operating status with the Smart key LED and hazard warning light.
- The Remote Parking function shows the operating status with the Smart key LED and hazard warning light. During the first reverse, the turn signal light blinks in the parking direction.

Precautions

- The emergency warning light status indicator may not be applicable, according to the relevant local regulations.
- If the smart key is outside the effective range (about 4 m) around the vehicle, the smart key LED may not display properly. Use it within the effective range.

Operation status	Smart key LED
Under control	Green LED continuously blinks
Pause	Red LED continuously blinks
Off	Red LED illuminates for 4 seconds and then turns off
Complete	Green LED illuminates for 4 seconds and then turns off

Temporarily pausing RSPA

RSPA pauses in the following conditions when:

- There is a pedestrian, animal or object in the direction the vehicle is moving
- The door or tailgate is open
- During Remote Operation, Remote Parking operation
 - The Forward  or Backward  button is not continuously pressed
 - Simultaneously pressing multiple buttons on a smart key
 - The smart key is not operated within 4 m (13 ft.) from the vehicle
 - Button of another smart key is pressed in addition to the operating smart key (except Remote Start button)
 - Blind-Spot Collision-Avoidance Assist (BCA), Parking Collision-Avoidance Assist (PCA) or Rear Cross-Traffic Collision-Avoidance Assist (RCCA) operates

Pausing RSPA

- The brake pedal or accelerator pedal is depressed
- The smart key is outside your vehicle when the brake pedal is depressed while the driver's door is open
- The total travel distance of your vehicle has exceeded about 20 m (65.6 ft.) after Remote Operation function is operated
- There is a problem with the smart key battery is low
- Theft Alarm System sounds

- There are pedestrians, animals or objects at the front and rear of the vehicle at the same time

RSPA cancelled

RSPA is cancelled in the following conditions when:

- The steering wheel is turned
- The gear is shifted
- EPB is operated while your vehicle is moving
- The hood is open
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- About 3 minutes and 50 seconds have past after Smart Parking function has started to operate
- The steering wheel, gearshift, braking, and drive controls are not working properly
- ABS, TCS ,or ESC system operates due to slippery road conditions
- The charging door is open

RSPA Settings



CAUTION

When the trailer's connector is plugged into your vehicle, RSPA automatically turns off. In this case, you cannot get help from RSPA. Pay extra attention when you drive when the function is inactive. (If a Hyundai genuine Trailer Kit that can determine whether a trailer is connected is used)

Warning methods

You can set the following Warning methods for RSPA:

- Warning volume

The audible warning sounds quietly even when the warning volume is turned off.

For more information, refer to **Driver Assistance System Settings**.

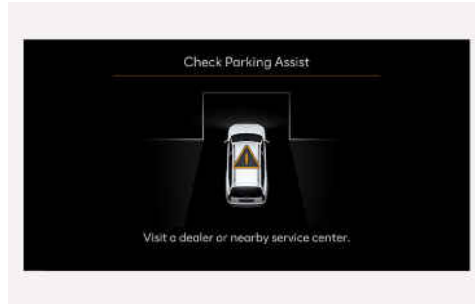
Precautions

- If you change warning method settings for this feature, the warning method settings for other driver assistance systems may also change. Keep this in mind when changing settings.
- Changed warning method settings are maintained even after the ignition is turned off and on again.
- This settings menu may not be available, depending on the vehicle specifications.

RSPA Malfunction and Limitations

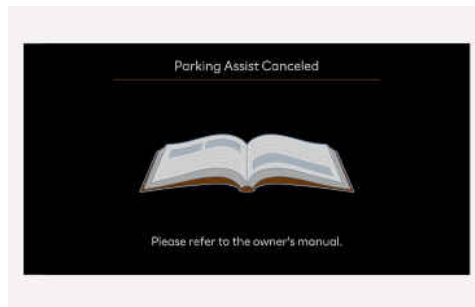
RSPA malfunction

RSPA check



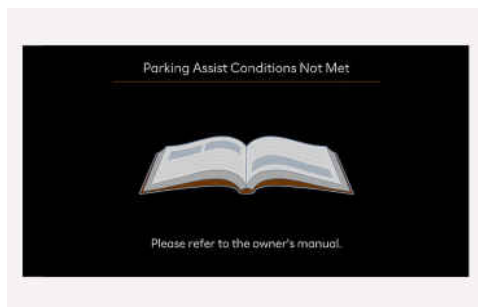
When RSPA is not working properly, the '**Check Parking Assist**' warning message appears on the infotainment system. If the message appears, stop using RSPA, and have your vehicle inspected by an authorized HYUNDAI dealer.

RSPA cancelled



When RSPA is operating, the function can be canceled, and the '**Parking Assist Canceled.**' warning message may appear regardless of the parking order. Other messages may appear depending on the situations. Follow the instructions provided on the infotainment system while parking your vehicle with Remote Parking Assist. Always look around and pay attention when using RSPA.

RSPA conditions not met



The '**Parking Assist Conditions not met**' message appears in the following circumstances:

- When Parking/View  button has been pressed and held while RSPA is in standby. After a while, press and hold the Parking/View  button again to see if RSPA works.
- The smart key's battery is low. Check the battery and replace it if needed.
- When 4WD mode is set. Switch to another mode to use RSPA.

Detecting sensors

RSPA uses the following sensors:

- Front ultrasonic sensors
- Front side ultrasonic sensors
- Rear ultrasonic sensors
- Rear side ultrasonic sensors

For more information, refer to **Sensor Information**.

RSPA limitations

When the detecting sensors cannot detect the surrounding, RSPA may not operate properly.

In the following circumstances, RSPA performance to park or exit the vehicle may be limited, there may be a risk of collision. Park or exit the vehicle manually if necessary.

- An object is attached to the steering wheel
- Any of the braking system's components, such as a brake disc or calliper, has been modified
- Any of the powertrain's components, such as the engine (motor) or transmission, has been modified
- The vehicle is installed with a snow chain, spare tire or different size wheel
- Tire pressure is lower or higher than the standard tire pressure
- Your vehicle is loaded with cargo longer or wider than your vehicle or a trailer is connected to your vehicle
- There is a problem with the wheel alignment
- Braking system components such as brake discs, calipers, etc., are modified
- Your vehicle is leaned severely to one side
- Your vehicle is equipped with a trailer hitch

- The license plate is installed differently from the original location
 - Your vehicle is overloaded or cargo is loaded to one side
 - RSPA is operated when SNOW mode (Terrain mode) is set
 - There is a person, animal or object above or below the ultrasonic sensor when RSPA is activated
 - The parking space is curved or diagonal
 - There is an obstacle such as a person, animal or object (trash can, bicycle, powered two-wheeler, shopping cart, narrow pillar, etc.) in the parking space
 - There is a circular pillar or narrow pillar, or a pillar surrounded by objects such as fire extinguisher, etc., near the parking space
 - The road surface is bumpy (curbstone, speed bump, etc.)
 - The road is slippery
 - The parking space is near a vehicle with higher ground clearance or big, such as a truck, etc.
 - The parking space is inclined
 - The road surface of parking space with lines is wet due to snow, puddles, or there is a road marker inside the parking space
 - The road surface of the parking space with lines is bumpy due to road cracks
 - The parking line is too thin or thick
 - The parking line is partially erased or blurred
 - The parking line is obscured by people, animals, or objects such as snow, boxes, etc.
 - There is heavy wind
 - Operating RSPA on uneven roads, gravel roads, bushes, etc.
 - The performance of the ultrasonic sensor has deteriorated due to extreme cold or heat
 - The ultrasonic sensor surface is dirty with snow, water droplets or other foreign objects
 - An object generating ultrasound is nearby
 - Radio apparatus capable of signal transmission is operating near the ultrasonic sensor
- RSPA may not operate properly under the following circumstances:
- Parking on inclines



Park or exit your vehicle manually on inclines.

- Parking on slippery or uneven place



RSPA may cancel when the vehicle slips, or the vehicle cannot move due to road conditions such as pebbles or fragmented stones.

- Parking near a truck



Do not use RSPA around vehicles with higher ground clearance, such as a bus, truck, etc. It may lead to an accident. Park or exit your vehicle manually.

- Parking near circular, square, or small pillar



RSPA performance may be reduced or collision with an obstacle may occur when there is a narrow object, circular pillar, square pillar, or a pillar surrounded by objects such as a fire extinguisher, etc., near the parking space. Park or exit your vehicle manually.

- Parking next to a misaligned vehicle



If RSPA is used when parking in a space next to misaligned vehicles, your vehicle may not be parked side by side.

However, if there is a parking line and it is detected properly, your vehicle parks side by side with the parking line.

- Parking in angled spaces



Remote Operation function may not operate properly in a diagonal parking space.

- Parking in snow



Snow may interfere with the operation of the ultrasonic sensor and wide view camera, or RSPA may cancel if the road is slippery while parking.



WARNING

- The driver is responsible for safe parking and exit when using RSPA. Always check surroundings when using RSPA. You may collide with pedestrians, animals, or objects if they are near the sensor or are in the sensor's blind spot area.
 - When using RSPA, stay out of the path of your vehicle.
 - A collision may occur if a pedestrian, animal, or object are in the blind spot area of the sensors or are very close to the sensors.
 - A collision may occur if a pedestrian, animal, or object suddenly enters the path of your vehicle while RSPA is operating.
 - Do not use RSPA when under the influence of alcohol.
 - Do not let children or other people to use the smart key.
 - If RSPA is used continuously for a long period, it may adversely affect RSPA performance.
 - RSPA may not operate properly if the vehicle needs wheel alignment adjustment such as when the vehicle tilts to one side. Have your vehicle inspected by an authorized HYUNDAI dealer.
 - Noise may be heard when braking occurs by RSPA or when the brake pedal is depressed by the driver.
 - RSPA may suddenly apply the brake to avoid collision with pedestrian, animal, or object.
 - Use RSPA only in a parking space that is large enough for the vehicle to move safely.
 - If RSPA does not operate properly, have your vehicle inspected by an authorized HYUNDAI dealer.
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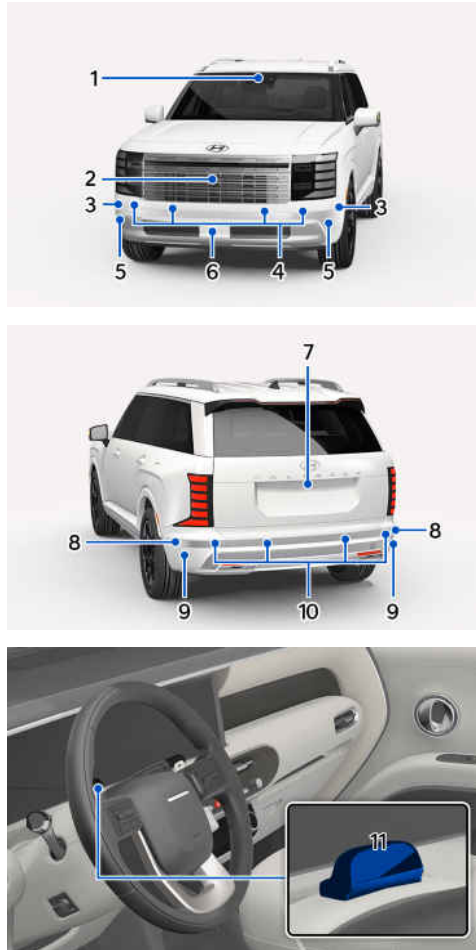
CAUTION

- If the continuous beeping warning of PDW sounds while RSPA is operating, it means the obstacle detected is close to your vehicle. At this time, RSPA temporarily stops operating. Make sure there are no pedestrians, animals, or objects around your vehicle.
 - Depending on brake operation, the stop lights may come on while the vehicle is moving.
 - If the vehicle is remotely started that has been parked in cold weather for a long time, the operation of Remote Parking function may be delayed or canceled depending on vehicle condition.
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Sensor Information

Driver Assistance System Sensors

The driver assistance systems on your vehicle uses cameras and sensors to help detect potential hazards in the vicinity of your vehicle.



1. Front view camera
2. Wide-front/side view camera
3. Front side ultrasonic sensors
4. Front ultrasonic sensors
5. Front corner radar
6. Front radar
7. Wide-rear view camera

8. Rear side ultrasonic sensors
9. Rear corner radar
10. Rear ultrasonic sensors
11. In-cabin camera



CAUTION

- Never disassemble the sensor or sensor assembly, and never apply any impact on it.
 - If the sensors have been replaced or repaired, have your vehicle inspected by an authorized HYUNDAI dealer.
 - If there is impact on or near the sensors, driver assistance system may not operate properly even though a warning message does not appear on the instrument cluster. Have your vehicle inspected by an authorized HYUNDAI dealer.
 - If the sensors or the surroundings are contaminated or damaged, driver assistance system may not work properly.
 - Always keep the sensors in good condition to maintain optimal performance of driver assistance system.
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Sensor Limitations

Front view camera

The front view camera detects a subject in front with the camera image. Take proper care of the front view camera as follows:

- Never install any accessories or stickers on the front windshield, or tint the front windshield.
- Always keep the camera dry.
- Never place any reflective objects (for example, white paper, mirror) on the dashboard.
- Do not place objects or install structures near the front windshield. Windshield defrosting and defogging performance of the climate control system may decrease, which may cause driver assistance systems to not operate properly.

Front view camera detection performance may decrease or driver assistance system may not operate properly when:

- The temperature around the front view camera is high or low due to surrounding environment.
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or sticky foreign material (sticker, bug, etc.) on the glass.
- Moisture is not removed or frozen on the windshield.
- Washer fluid is sprayed continuously, or the wiper is on.
- You are driving in heavy rain or snow, or thick fog.
- The front view camera's field of view is obstructed by glare from the sun.
- Sunlight, streetlight or light from an oncoming vehicle is reflected on the wet road surface such as a puddle on the road.
- An object is placed on the dashboard.
- Your vehicle is being towed.
- The surrounding is very bright or very dark (nighttime, tunnel, etc.).

- The brightness changes suddenly, for example when entering or exiting a tunnel.
- The brightness outside is low, and the headlights are not on or are not bright.
- A front vehicle, motorcyclist, pedestrian, or cyclist is partially visible.
- The vehicle or powered two-wheeler in front has no tail lights, tail lights are located unusually, etc.
- In low light conditions, the tail lamps of the front vehicle are turned off or not bright.
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's ground clearance is low or high.
- A vehicle, motorcyclist, pedestrian, or cyclist suddenly cuts in front.

Radars

The radar uses electric waves to detect the surroundings. Take proper care of the radars as follows:

- Do not install a license plate frame or other objects such as bumper sticker, film, bumper guard, or bumper wrap near the radar.
- Always keep the radars and radar covers clean. Do not spray the radar or the surrounding area directly with high pressure water.
- The genuine bumper parts with radars have proven their performance. Replacing or painting may result in poor performance of driver assistance systems. When the parts need to be replaced or modified, make sure to use qualified products.
- Do not attach accessories, moldings, stickers, films, wrapping, etc., to the sensors and surrounding areas, or paint the bumper.
- Driver assistance system may not work properly if the bumper has been replaced, or the surroundings of the radar has been damaged or painted.
- If a trailer or hitch mounted carrier is attached, it may adversely affect the performance of the rear corner radar or driver assistance system may not operate.
- If there is impact on or near the radar, the sensors may be damaged or not be properly aligned near the radar. Even though a warning message does not appear on the instrument cluster, driver assistance system may not operate properly. Have your vehicle inspected by an authorized HYUNDAI dealer.
- If the radar have been replaced or repaired, have your vehicle inspected by an authorized HYUNDAI dealer.

Radar detection performance may decrease or driver assistance system may not operate properly when:

- The bumper around the radar is impacted, damaged or the radar is out of position.
- The temperature around the radar is high or low.
- Driving through a tunnel or iron bridge.
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.).
- Driving near areas containing metal substances, such as a construction zone, railroad, etc.
- The radar is covered with snow, rain, dirt, etc.

- The bumper around the radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The radar is blocked by other vehicles, walls or pillars.
- A trailer or carrier is installed around the radar.
- A material is near that reflects very well on the radar, such as guardrail, nearby vehicle, etc.
- The vehicle in front is made of material that does not reflect on the front radar well.
- Driving on a highway ramp, interchanges, or driving through a tollbooth.

Ultrasonic sensors

The ultrasonic sensor uses ultrasonic waves to detect the surroundings. Take proper care of the ultrasonic sensors as follows:

- Never disassemble or strike the ultrasonic sensors components.
- Ultrasonic sensor malfunction may be due to foreign substance, such as snow or water on the sensor. Always keep the sensors clean and clean it with a soft cloth when contaminated.
- Do not press the surface of the ultrasonic sensor with strength, strike with a hard object, or scratch with a sharp object. The sensor may be damaged.
- Do not spray the ultrasonic sensors or their surrounding area directly with high pressure washer.
- If the bumper height or ultrasonic sensor installation has been modified, or objects are attached in the ultrasonic sensor detection area, Parking Safety function may not operate properly.
- Do not apply objects, such as a bumper sticker or a bumper guard, near the ultrasonic sensors or apply paint to the bumper.

Ultrasonic sensor detection performance may decrease or driver assistance system may not operate properly when:

- Sensor is covered with foreign substance, such as snow or water (the function operates properly when such substance is removed).
- The weather is extremely hot or cold.
- The ultrasonic sensors or sensor assembly is disassembled.
- The surface of the sensor is pressed hard or hit with a hard object.
- The surface of the sensor is scratched with a sharp object.
- The sensors or its surrounding area is directly sprayed with high pressure washer.
- Objects generating ultrasonic waves, such as vehicle horns, loud motorcycle engines or truck air brakes, are near your vehicle.
- A wireless transmission device operates near the ultrasonic sensors.

Wide view cameras

The wide view camera detects or shows the surroundings with the camera image. Take proper care of the wide view camera as follows:

- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Rear View Monitor or Surround View Monitor may not operate properly.

- When cleaning the wide view cameras, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone, etc.). This may damage the camera lens.
- Do not spray the wide view cameras or their surrounding area directly with high pressure washer.
- Do not apply objects, such as a bumper sticker or a bumper guard, near the wide view cameras or apply paint to the bumper.
- Do not disassemble the wide view cameras or sensor assembly.
- Do not impact the wide view cameras. If the camera is out of position due to impact, it may not operate properly. If the wide view camera is damaged, have your vehicle inspected by an authorized HYUNDAI dealer.

In-cabin camera

The in-cabin camera is mounted to the steering wheel. Take proper care of the in-cabin camera as follows:

- Do not impact the surface of the camera or around the camera. Driver assistance system may not operate properly.
- Do not place anything on the camera or in front of the camera while driving. The in-cabin camera may not operate properly.
- When cleaning the camera, wipe with a soft and clean cloth to prevent damages on the surface of the camera lens. In addition, you should not use sharp tools near the camera, or use chemicals to clean the camera.
- Always keep the camera and around the area of the in-cabin camera clean and dry.
- Do not apply foreign objects, such as a sticker, around the infrared LED located near the camera.

Declaration Of Conformity

Front Radar

The radio frequency components (Front Radar) complies :

- For USA

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

- For Canada

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée

aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Front Corner Radar (if equipped)/Rear Corner Radar

The radio frequency components (Rear Corner Radar) complies:

- For USA



FCC ID : LTQ2H5TR

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- For Canada

Model: 2H5TR
IC: 3659A-2H5TR

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage,
et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.