

7. Driver Assistance System

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7. Driver Assistance System

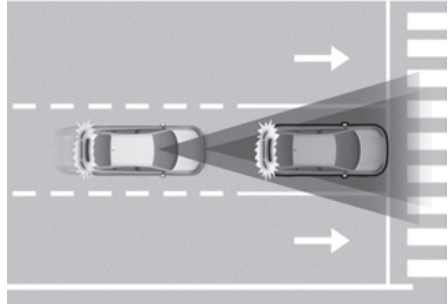
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Driver Assistance System Notice

Due to the software update, the description of each function of the driver assistance system may differ from the owner's manual.

Forward Collision-Avoidance Assist (FCA)

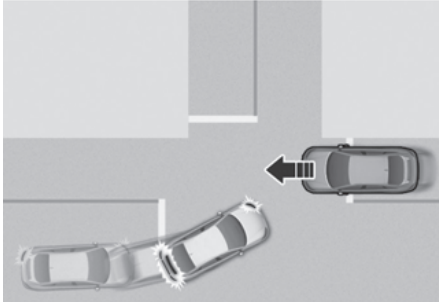
Basic function



Forward Collision-Avoidance Assist detects a vehicle, a powered two-wheeler, a pedestrian, or a cyclist ahead on the road and may warn you of a possible collision with a warning message on the instrument cluster and a warning sound. Also, Forward Collision-Avoidance Assist may assist with braking your vehicle to help reduce collision speed or avoid a collision.

In addition, when driving at high speeds, Forward Collision-Avoidance Assist will help detect vehicles in front and adjacent lanes. If a collision is imminent when changing lanes, Forward Collision-Avoidance Assist will apply emergency braking to help prevent a collision. (if equipped)

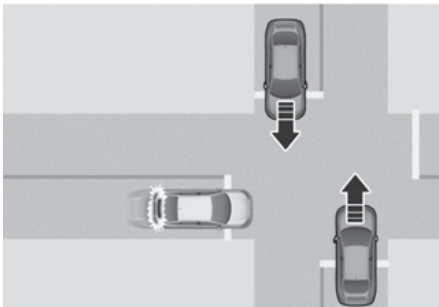
Junction Turning function



Junction Turning function can help avoid a collision with an oncoming vehicle or powered two-wheeler in an adjacent lane when turning left at a crossroad with the turn signal on by applying emergency braking.

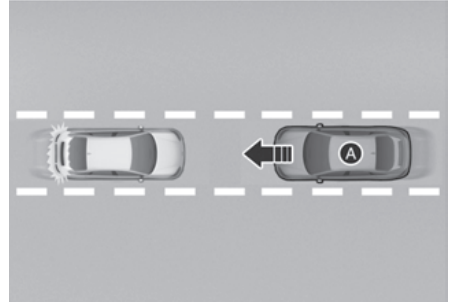
Junction Crossing function

+ if equipped



Junction Crossing function can help avoid a collision with oncoming vehicles on the left or right side when crossing an intersection by applying emergency braking.

Direct Oncoming function

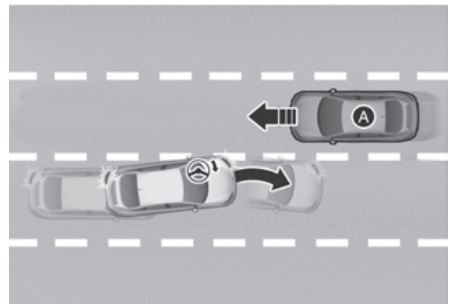


[A] Oncoming vehicle

Direct Oncoming function helps reduce the speed at the collision when a vehicle or powered two-wheeler approaching from the opposite side is detected.

Lane-Change Oncoming function

+ if equipped

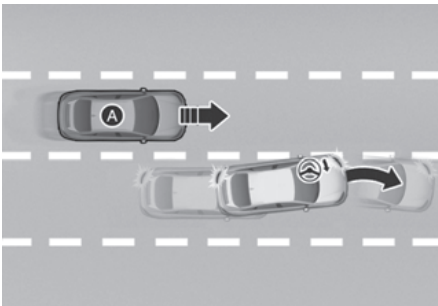
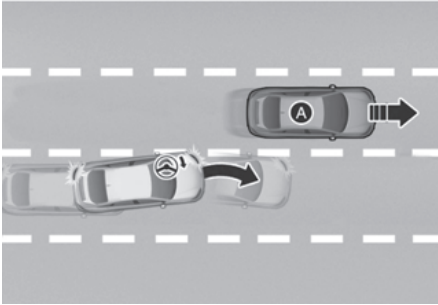


[A] Oncoming vehicle

Lane-Change Oncoming function helps avoid a collision with an oncoming vehicle or powered two-wheeler when changing lanes by assisting the driver's steering.

Lane-Change Side function

 if equipped

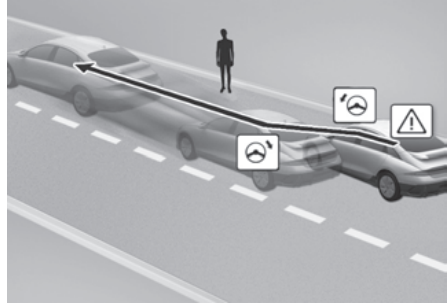


[A] Side vehicle

Lane-Change Side function helps avoid a collision with the vehicle in the next lane when changing lanes by assisting the driver's steering.

Evasive Steering Assist function

 if equipped



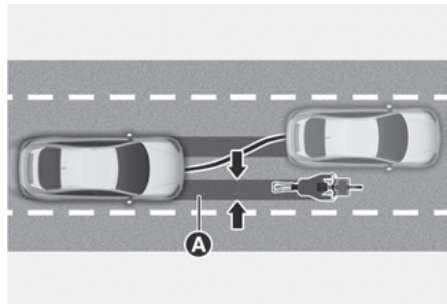
- Driver steering assist

Evasive Steering Assist function helps avoid a collision with a vehicle or powered two-wheeler, pedestrian or cyclist ahead in the same lane. When a risk of collision is detected, Evasive Steering Assist function will warn the driver and if the driver steers to avoid collision it will assist the driver's steering.

- Evasive steering assist

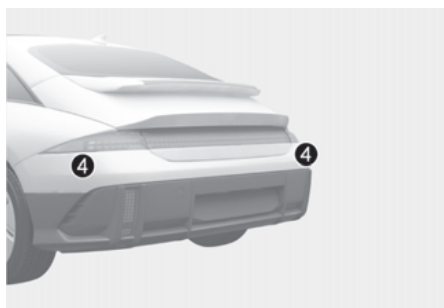
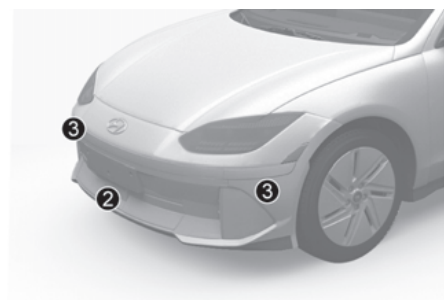
Evasive Steering Assist function helps avoid a collision with a powered two-wheeler, pedestrian or cyclist ahead in the same lane. When a risk of collision is detected, Evasive Steering Assist function will warn the driver and if there is space to avoid collision in the lane, it will assist the driver's steering.

Evasive Steering Assist function operates when there is a collision risk and sufficient operating area between your vehicle and the detected pedestrian or cyclist ahead.



[A] Operating Area of Evasive Steering Assist function

Detecting sensor



- (1) Front view camera
- (2) Front radar
- (3) Front corner radar (if equipped)
- (4) Rear corner radar (if equipped)

Refer to the picture above for the detailed location of the detecting sensors.

CAUTION

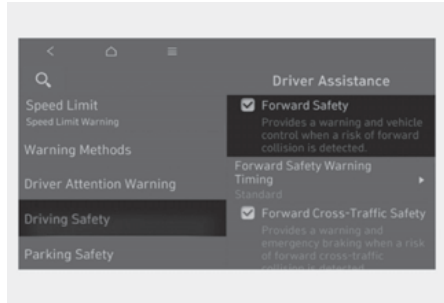
Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the detecting sensor or sensor assembly, or cause any damage to it.
- If the detecting sensors have been replaced or repaired, have the vehicle inspected by an authorized HYUNDAI dealer.
- Never install any accessories or stickers on the front windshield, or tint the front windshield.
- Exercise extreme caution to keep the front view camera dry.
- Never place any reflective objects (for example, white paper, mirror) over the dashboard.
- Do not place any objects near the front windshield or install any accessories on the front windshield. It can affect the performance of the defogging and defrosting function of the climate control system, which may prevent the Driver Assistance systems from operating.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front radar cover.
- Do not change the position of the license plate. The front radar's detection and control performance may be affected.
- Always keep the front radar and cover clean and free of dirt and debris. Use only a soft cloth to wash the vehicle. Do not spray pressurized water directly on the sensor or sensor cover.

- If the radar or around the radar has been damaged or impacted in any way, Forward Collision-Avoidance Assist may not properly operate even though a warning message does not appear on the instrument cluster. Have the vehicle inspected by an authorized HYUNDAI dealer.
- The performance of the front radar cover genuine parts have been proven. Replacing or painting the front radar cover may result in poor performance of Forward Collision-Avoidance Assist. When the parts need to be replaced or modified, make sure to use genuine HYUNDAI parts.
- Vehicles equipped with front corner radar and/or rear corner radar
 - Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front corner radar or rear corner radar.
 - The function may not work properly when the bumper has been replaced, or the surroundings of the front corner radar or rear corner radar has been damaged or paint has been applied.
 - If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Forward Collision-Avoidance Assist may not operate properly.

Forward Collision-Avoidance Assist Settings

Forward Safety

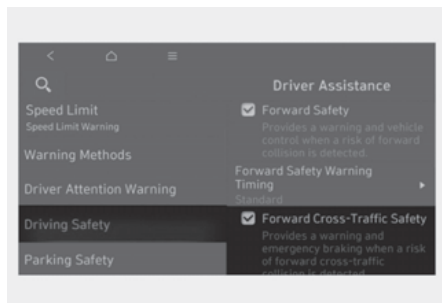


With the vehicle on, select or deselect **Setup > Vehicle > Driver Assistance > Driving Safety > Forward Safety** from the Settings menu to set whether to use each function.

- If **Forward Safety** is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message, an audible warning depending on the collision risk levels. Braking assist will be applied depending on the collision risk levels. If **Forward Safety** is deselected, Forward Safety will turn off. The warning light (⚠️) will illuminate on the instrument cluster.

Forward Cross-Traffic Safety

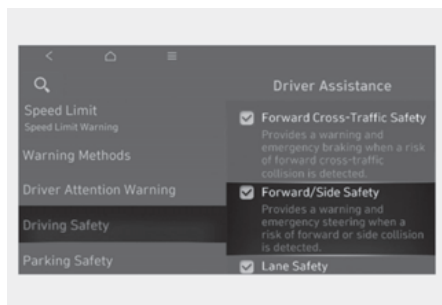
if equipped



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Forward Cross-Traffic Safety** from the Settings menu to turn on Junction crossing function and deselect to turn off the function.

Forward/Side Safety

if equipped



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Forward/Side Safety** from the Settings menu to turn on Lane-Change Oncoming function, Lane-Change Side function, Evasive Steering Assist function and deselect to turn off the functions.

- If **Forward/Side Safety** is selected, Forward Collision-Avoidance Assist will warn the driver, a warning message, an audible warning depending on the collision risk levels. Steering assist will be applied depending on the collision risk levels. If **Forward/Side Safety** is deselected, Forward/Side Safety will turn off. The warning light () will illuminate on the instrument cluster.

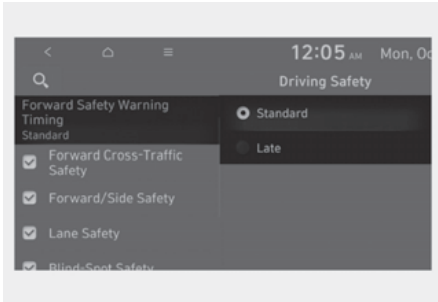
WARNING

When the vehicle is restarted, Forward Collision-Avoidance Assist will always turn on. However, at all times, and especially if **Forward Safety** is deselected, the driver should always be aware of the surroundings and drive safely.

CAUTION

- The setting for Forward Safety include 'Basic function' and 'Junction Turning', and 'Direct Oncoming'.
- The setting for Forward-Cross Traffic Safety includes 'Junction Crossing'.
- The setting for Forward/Side Safety includes 'Lane Change Oncoming', 'Lane-Change Side' and 'Evasive Steering Assist' (if equipped).
- If **Forward Safety** is deselected, Junction Crossing function will not operate even when **Forward Cross-Traffic Safety** and **Forward/Side Safety** is selected. (if equipped)

Forward Safety Warning Timing



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Forward Safety Warning Timing** from the Settings menu to change the initial warning activation time for Forward Collision Avoidance Assist. The warning time can be set to either **Standard** or **Late**.

- Use **Standard** in normal driving conditions. If the Warning Timing seems sensitive, change it to **Late**.
- If **Late** is selected, Forward Collision-Avoidance Assist, warns the driver more slowly.

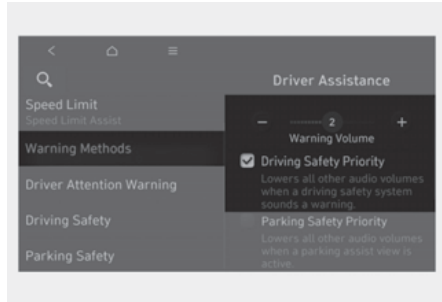
CAUTION

- Even though **Standard** is selected for Warning Timing, if a detected vehicle in front suddenly stops, the warning may seem late.
- Select **Late** for Warning Timing when traffic is light and when driving speed is slow.

Information

- If the vehicle is restarted, Warning timing will maintain the last setting.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

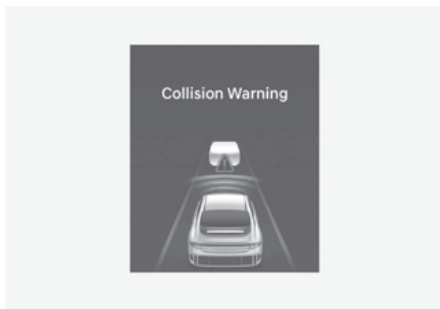
- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Forward Collision-Avoidance Assist Operation

Basic function

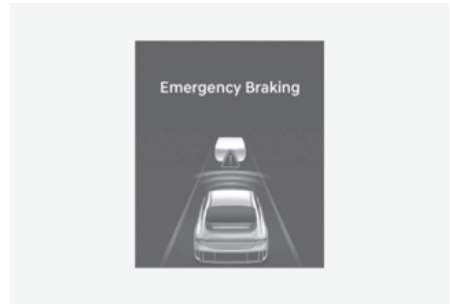
The basic function for Forward Collision-Avoidance Assist is to warn and help control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

Collision Warning



- To warn the driver of a collision, Forward Safety warning light (⚠️) blinking, the **'Collision Warning'** warning message will appear on the instrument cluster, an audible warning will sound.
- If a vehicle or powered two-wheeler is detected in front, the function will operate when your vehicle speed is between about 10-200 km/h (6-124 mph).
- If a pedestrian or cyclist is detected in front, the function will operate when your vehicle speed is between about 10-85 km/h (6-53 mph).

Emergency Braking



To warn the driver that emergency braking will be assisted, Forward Safety warning light (⚠️) blinking, the 'Emergency Braking' warning message will appear on the instrument cluster, an audible warning will sound.

Emergency braking will operate under the following conditions:

- Vehicle or powered two-wheeler:

	Driving vehicle	Stopped vehicle
Weak braking power	About 10-200 km/h (6-124 mph)	
Strong braking power	About 10-130 km/h (6-80 mph)	About 10-75 km/h (6-47 mph)*

*: If Forward Collision Avoidance Assist judges that avoiding a collision is difficult even by changing the driving lane, braking is assisted more earlier.

- Pedestrian or cyclist:

The function will operate when your vehicle speed is between about 10-65 km/h (6-40 mph).

⚠️ CAUTION

The function operation range may decrease due to the front traffic condition or the surroundings of the vehicle.

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the '**Drive carefully**' warning message will appear on the instrument cluster.

For your safety, the driver should depress the brake pedal immediately and check the surroundings.

- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.

Junction Turning function

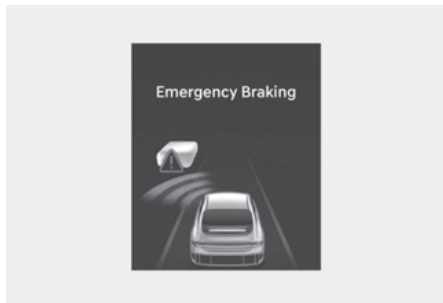
Junction Turning function will warn and help control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'

Collision Warning



- To warn the driver of a collision, Forward Safety warning light (🚗) blinking, the '**Collision Warning**' warning message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 10-30 km/h (6-19 mph) and the oncoming vehicle or powered two-wheeler speed is between about 30-70 km/h (19-44 mph).

Emergency Braking



- To warn the driver that emergency braking will be assisted, Forward Safety warning light (⚡) blinking, the '**Emergency Braking**' warning message will appear on the instrument cluster, an audible warning will sound.
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the oncoming vehicle.
- The function will operate when your vehicle speed is between about 10-30 km/h (6-19 mph) and the oncoming vehicle or powered two-wheeler speed is between about 30-70 km/h (19-44 mph).

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the '**Drive carefully**' warning message will appear on the instrument cluster.
For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.

i Information

Press the hazard warning flasher to turn off the audible warning of the collision warning or emergency braking system.

Junction Crossing function

 if equipped

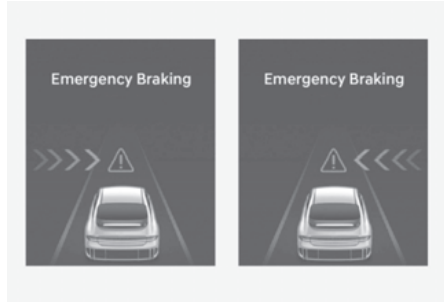
Junction Crossing function will warn and control the vehicle depending on collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'

Collision Warning



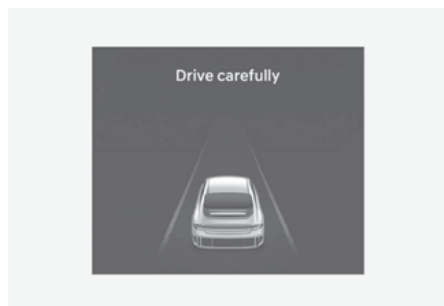
- To warn the driver of a collision, Forward Safety warning light () blinking, the '**Collision Warning**' warning message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 10-55 km/h (6-34 mph) and the crossing vehicle speed is between about 10-60 km/h (6-37 mph).

Emergency Braking



- To warn the driver that emergency braking will be assisted, Forward Safety warning light () blinking, the '**Emergency Braking**' warning message will appear on the instrument cluster, an audible warning will sound.
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the crossing vehicle.
- The function will operate when your vehicle speed is between about 10-55 km/h (6-34 mph) and the crossing vehicle speed is between about 10-40 km/h (6-25 mph).

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the '**Drive carefully**' warning message will appear on the instrument cluster.

For your safety, the driver should depress the brake pedal immediately and check the surroundings.

- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.

CAUTION

If the collision angle with the crossing vehicle is beyond a certain range, Junction Crossing function warning and control may be late or may not operate.

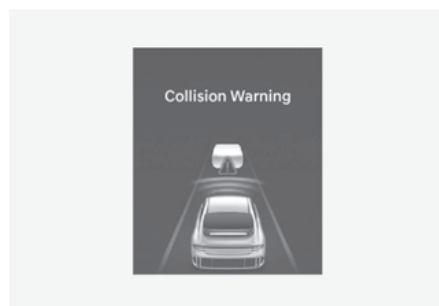
Information

Press the hazard warning flasher to turn off the audible warning of the collision warning or emergency braking system.

Direct Oncoming function

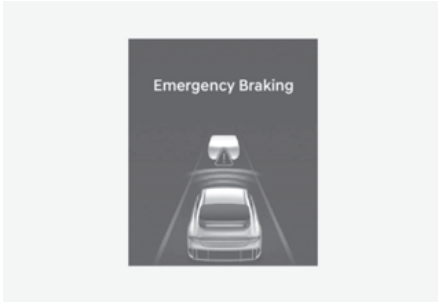
Direct Oncoming function will warn and control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

Collision Warning



- To warn the driver of a collision, Forward Safety warning light () blinking, the '**Collision Warning**' warning message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 30-130 km/h (19-80 mph) and the detected oncoming vehicle speed is about above 10 km/h (6 mph).

Emergency Braking



- To warn the driver that emergency braking will be assisted, Forward Safety warning light (⚠️) blinking, the '**Emergency Braking**' warning message will appear on the instrument cluster, an audible warning will sound.
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the oncoming vehicle.
- The function will operate when your vehicle speed is between about 30-130 km/h (19-80 mph) and the detected oncoming vehicle speed is about above 10 km/h (6 mph).

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the '**Drive carefully**' warning message will appear on the instrument cluster. For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.

CAUTION

If your vehicle or the oncoming vehicle is not driving straight, Direct Oncoming function warning and control may be late or may not operate.

Information

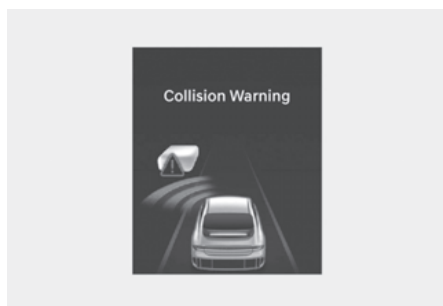
Press the hazard warning flasher to turn off the audible warning of the collision warning or emergency braking system.

Lane-Change Oncoming function

 if equipped

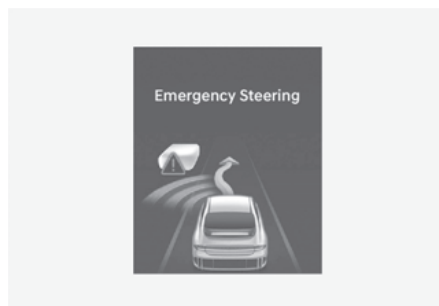
Lane-Change Oncoming function will warn and control the vehicle depending on collision risk level: 'Collision Warning' and 'Emergency Steering'

Collision Warning



- To warn the driver of a collision, Emergency Steering warning light () blinking, the **'Collision Warning'** warning message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 40-145 km/h (25-90 mph) and the oncoming vehicle or powered two-wheeler speed is about above 10 km/h (6 mph) and the relative speed with your vehicle is about below 200 km/h (124 mph).

Emergency Steering



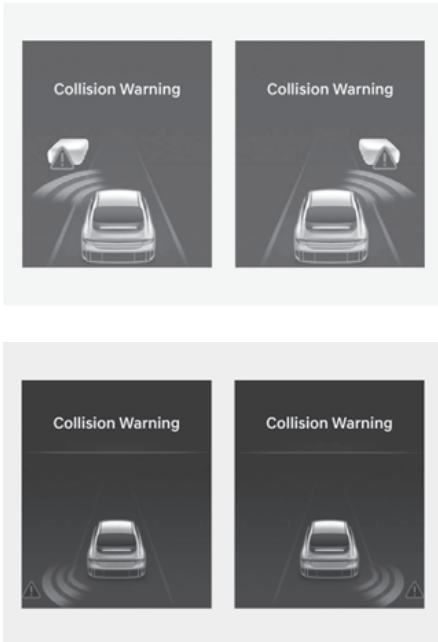
- To warn the driver that emergency steering will be assisted, Emergency Steering warning light () blinking, the **'Emergency Steering'** warning message will appear on the instrument cluster, an audible warning will sound.
- In emergency steering situation, steering is assisted by the function to help prevent collision with the oncoming vehicle.
- The function will operate when your vehicle speed is between about 40-145 km/h (25-90 mph) and the oncoming vehicle or powered two-wheeler speed is about above 10 km/h (6 mph) and the relative speed with your vehicle is about below 200 km/h (124 mph).

Lane-Change Side function

 if equipped

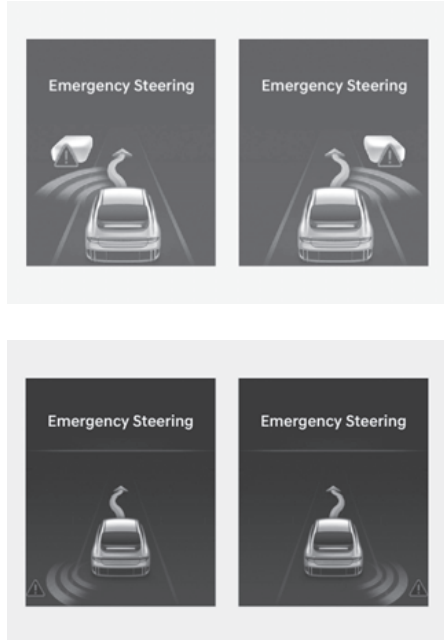
Lane-Change Side function will warn and control the vehicle depending on collision risk level: 'Collision Warning' and 'Emergency Steering'

Collision Warning



- To warn the driver of a collision, Emergency Steering warning light () blinking, the '**Collision Warning**' warning message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 40-145km/h (25-90 mph).

Emergency Steering



- To warn the driver that emergency steering will be assisted, Emergency Steering warning light () blinking, the '**Emergency Steering**' warning message will appear on the instrument cluster, an audible warning will sound.
- In emergency steering situation, steering is assisted by the function to help prevent collision with the front-side vehicle.
- The function will operate when your vehicle speed is between about 40-145km/h (25-90 mph) and front-side vehicle and powered two-wheeler is driving.

⚠ CAUTION

- Lane-Change Side function does not operate if the speed of the side vehicle or powered two-wheeler from the front side is 0 km/h (0 mph).
- The detecting range of the front corner radar and the rear corner radar is determined by a standard road width, therefore, on a narrow road, Lane-Change Side function may detect other vehicles or powered two-wheelers two lanes over and warn you. In contrast, on a wide road, Lane-Change Side function may not be able to detect a vehicle or powered two-wheeler driving in the next lane and may not warn you.
- Collision-avoidance assist will be canceled under the following circumstances:
 - Your vehicle enters the next lane by a certain distance
 - Your vehicle is away from the collision risk
 - The steering wheel is sharply steered
 - The brake pedal is depressed
 - Forward Collision-Avoidance Assist is operating
- After Lane-Change Side function operation or lane change, you must drive to the center of the lane. Lane-Change Side function will not operate if the vehicle is not driven in the center of the lane.

i Information

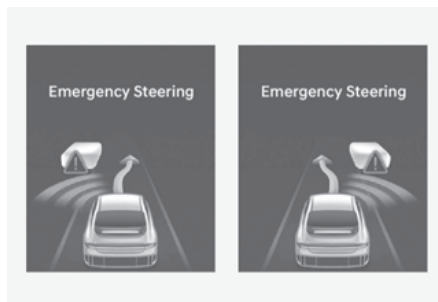
- When an additional accident is expected, Lane-Change Side function will not assist with steering and only warn the driver of a collision.
- If the driver's seat is on the left side, collision warning will operate when you turn left, and when it is on the right side, the system will operate when you turn right.

Evasive Steering Assist function

 if equipped

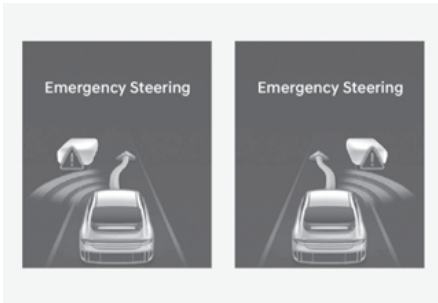
Evasive Steering Assist function will warn and control the vehicle with 'Emergency steering'.

Emergency Steering (Driver steering assist)



- To warn the driver that emergency steering will be assisted, Emergency Steering warning light (🚗) blinking, the 'Emergency Steering' message will appear on the instrument cluster, an audible warning will sound.
- If there is a risk of collision with a vehicle, powered two-wheeler, pedestrian and cyclist in front, the steering will be assisted to help prevent collision when the driver steers the vehicle to avoid collision.
- The function will operate when your vehicle speed is between about 40-85 km/h (25-53 mph).

Emergency Steering (Evasive steering assist)



- To warn the driver that emergency steering will be assisted, Emergency Steering warning light (🚨) blinking, the **'Emergency Steering'** message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 65-75 km/h (40-47 mph).
- The recognized a powered two-wheeler, pedestrian or cyclist moves in the same direction as your vehicle, or in the opposite direction. In addition, there is sufficient space for an evasive movement for your vehicle. However, this function may not operate for pedestrians or cyclists moving in the horizontal direction.
- If there is high risk of collision with a pedestrian and cyclist in front, and the vehicle speed to operate emergency braking is within the operation range, the steering will be assisted to help prevent collision when there is space to avoid collision in the driving lane.

⚠ CAUTION

- The steering wheel may turn automatically when emergency steering is operating.
- Emergency steering will automatically cancel when risk factors disappear. The driver must steer the vehicle.
- Emergency steering may not operate or may cancel during operation if the steering wheel is held tight or steered in the opposite direction.
- When steering is assisted to avoid collision with a vehicle, powered two-wheeler, pedestrian and cyclist, Evasive steering assist will be canceled if collisions with other objects (vehicles, powered two-wheeler, pedestrians, or cyclists) are expected.
- Evasive steering assist may not operate if space to avoid collision in the driving lane is insufficient.

i Information

For more information on warning messages, refer to the Collision Warning in "Basic function".

WARNING

Take the following precautions when using Forward Collision-Avoidance Assist:

- For your safety, only change the Settings after parking the vehicle at a safe location.
- Forward Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- The driver has the responsibility to control the vehicle. Do not solely depend on Forward Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Forward Collision-Avoidance Assist on people, objects, etc. It may cause serious injury or death.
- Forward Collision-Avoidance Assist may not operate if the driver depresses the brake pedal to avoid a collision.
- Depending on the road and driving conditions, Forward Collision-Avoidance Assist may warn the driver late or may not warn the driver.
- During Forward Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- If any other system's warning message is displayed or audible warning is generated, Forward Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- Forward Collision-Avoidance Assist may turn off or may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.
- Even if there is a problem with Forward Collision-Avoidance Assist, the vehicle's basic braking will function normally.
- During emergency braking, braking control by Forward Collision-Avoidance Assist will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.

CAUTION

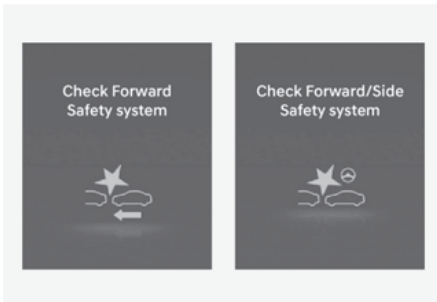
- Depending on the condition of the vehicle, two-wheeled vehicle, pedestrian or cyclist in front and the surroundings, the speed range for Forward Collision-Avoidance Assist to operate may be reduced, and Forward Collision-Avoidance Assist may be limited, or may not operate.
- Forward Collision-Avoidance Assist will operate under certain conditions by judging the risk level based on the condition of the oncoming vehicle or powered two-wheeler, driving direction, speed and surroundings.
- Forward Collision-Avoidance Assist may be limited or disabled if the vehicle or powered two-wheeler speed is too high or the distance to the vehicle ahead is far.
- When a collision with a surrounding vehicle is expected, Lane-Change Oncoming, Lane-Change Side and Evasive Steering Assist will not assist you with steering but only warn the you of a collision (if equipped).

i Information

- In a situation where collision is imminent, braking may be assisted by Forward Collision-Avoidance Assist when braking is insufficient by the driver.
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

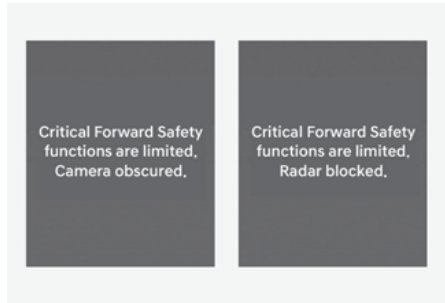
Forward Collision-Avoidance Assist Malfunction and Limitations

Forward Collision-Avoidance Assist malfunction



When Forward Collision-Avoidance Assist is not working properly, the '**Check Forward Safety system**' and '**Check Forward/Side Safety system**' warning message will appear, and the and warning lights will illuminate on the instrument cluster. Have the vehicle inspected by an authorized HYUNDAI dealer.

Forward Collision-Avoidance Assist disabled



When the front view camera or radar is block or obscured by foreign material, rain, or snow, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.

If this occurs the '**Critical Forward Safety functions disabled. Camera obscured**' or the '**Critical Forward Safety functions disabled. Radar blocked**' warning message, and the , and warning lights will illuminate on the instrument cluster.

Forward Collision-Avoidance Assist will operate properly when snow, rain or foreign material is removed.

If Forward Collision-Avoidance Assist does not operate properly after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message or warning light does not appear on the instrument cluster, Forward Collision-Avoidance Assist may not properly operate.
- Forward Collision-Avoidance Assist may not properly operate in an area (for example, open terrain), where any objects are not detected after turning ON the vehicle.
- If the vehicle is turned off and restarted while the camera is blocked or malfunctioned, the condition is maintained. Therefore, Forward Collision-Avoidance Assist may not operate properly.
- Street light or light from an oncoming traffic 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
- The surrounding is very dark, such as in a 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
- Driving through steam, smoke or shadow
- Only part of the vehicle, powered two-wheeler, pedestrian or cyclist is detected

Limitations of Forward Collision-Avoidance Assist

Forward Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- The detecting sensor or the surroundings are contaminated or damaged
- 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 continuously sprayed, or the wiper is on
- Driving in heavy rain or snow, or thick fog
- The field of view of the front view camera is obstructed by sun glare
- The vehicle or powered two-wheeler in front is a bus, heavy truck, truck with an unusually shaped cargo, trailer, etc.
- The vehicle or powered two-wheeler in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lights are not on or are 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, powered two-wheeler, pedestrian or cyclist suddenly cuts in front
- The bumper around the front radar is impacted, damaged or the front radar is out of position
- The temperature around the front 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.
- A material is near that reflects very well on the front radar, such as a guardrail, nearby vehicle, etc.
- The cyclist in front is on a bicycle made of material that does not reflect on the front radar
- The vehicle or powered two-wheeler in front is detected late
- The vehicle or powered two-wheeler in front is suddenly blocked by an obstacle
- The vehicle or powered two-wheeler in front suddenly changes lane or suddenly reduces speed
- The vehicle or powered two-wheeler in front is bent out of shape
- The vehicle in front is covered with snow
- You are departing or returning to the lane
- Unstable driving
- You are on a roundabout and the vehicle or powered two-wheeler in front is not detected
- You are continuously driving in a circle
- The vehicle in front has an unusual shape

- The vehicle in front is driving uphill or downhill
- The pedestrian or cyclist is not fully detected, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian or cyclist is wearing clothing or equipment that makes it difficult to detect



The illustration above shows the image the front view camera and front radar are capable of detecting as a vehicle, pedestrian and cyclist.

- The pedestrian or cyclist in front is moving very quickly
- The pedestrian or cyclist in front is short or is posing a low posture
- The pedestrian or cyclist in front has impaired mobility
- The pedestrian or cyclist in front is moving intersected with the driving direction
- There is a group of pedestrians, cyclists or a large crowd in front

- The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
- The pedestrian or cyclist is difficult to distinguish from the similarly shaped structure in the surroundings
- You are driving by a pedestrian, cyclist, traffic signs, structures, etc., near the intersection
- Driving in a parking lot
- Driving through a tollbooth, construction area, unpaved road, partial paved road, uneven road, speed bumps, etc.
- Driving on an incline road, curved road, etc.
- Driving through a roadside with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations while driving
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Driving through a narrow road where trees or grass are overgrown
- There is interference by electromagnetic waves, such as driving in an area with strong radio waves or electrical noise

Junction Crossing, Lane-Change Oncoming, Lane-Change Side, Evasive Steering Assist function

 if equipped

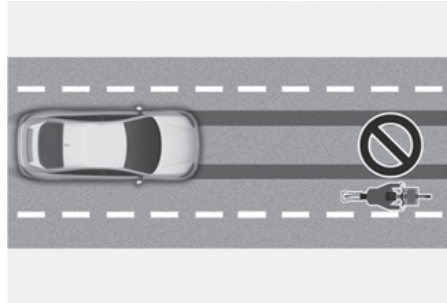
- The temperature around the front corner radar or rear corner radar is high or low
- A trailer or carrier is installed around the rear corner radar
- The front corner radar or rear corner radar is covered with snow, rain, dirt, etc.
- The bumper around the front corner radar or rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the front corner radar or rear corner radar is impacted, damaged or the radar is out of position
- The front corner radar or rear corner radar is blocked by other vehicles, walls or pillars
- Driving on a highway ramp
- Driving on a road where the guardrail or wall is in double structure
- The other vehicle or powered two-wheeler drives very close behind your vehicle, or the other vehicle or powered two-wheeler passes by your vehicle in close proximity
- The speed of the other vehicle or powered two-wheeler is very fast so that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle
- Your vehicle has started at the same time as the vehicle or powered two-wheeler next to you and has accelerated

- The vehicle or powered two-wheeler in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A motorcycle or bicycle is detected
- A vehicle such as a flat trailer is detected
- A big vehicle such as a bus or truck is detected
- A small moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected
- The lane is difficult to see due to foreign material, such as rain, snow, dust, sand, oil and water puddles
- The color of the lane marking is not distinguishable from the road
- There are markings on the road near the lane or the markings on the road looks similar to the lane markings
- The shadow is on the lane marking by a median strip, trees, guardrail, noise barriers, etc.
- The lane number increases or decreases, or the lane markings are crossing
- There are more than two lane markings on the road
- The lane markings are complicated or a structure substitutes for the lines, such as a construction area
- There are road markings, such as zigzag lanes, crosswalk markings and road signs
- The lane suddenly disappears, such as at the intersection
- The lane is very wide or narrow
- There is a curb or road edges without a lane
- The vehicle in front is driving with one side on the lane marking
- The distance to the front vehicle is extremely short

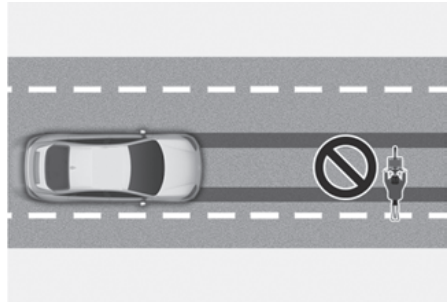
Limitations of Evasive Steering Assist

Evasive Steering Assist function may not work properly in the following situations when:

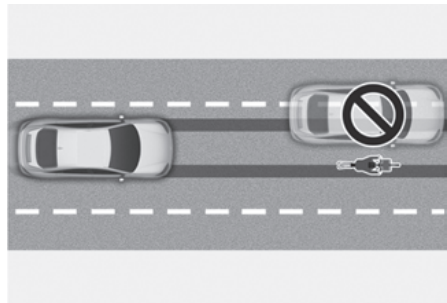
- The pedestrians or cyclists are positioned outside of the operating area.



- The pedestrians or cyclists are moving laterally.

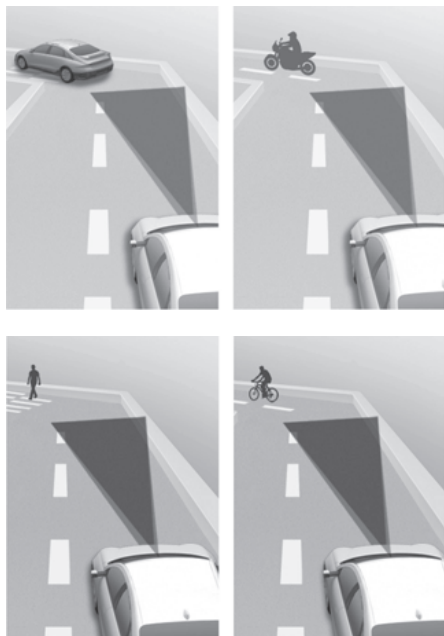


- The pedestrians or cyclists are positioned inside of the operating area, but there is not enough space available for evasive steering.



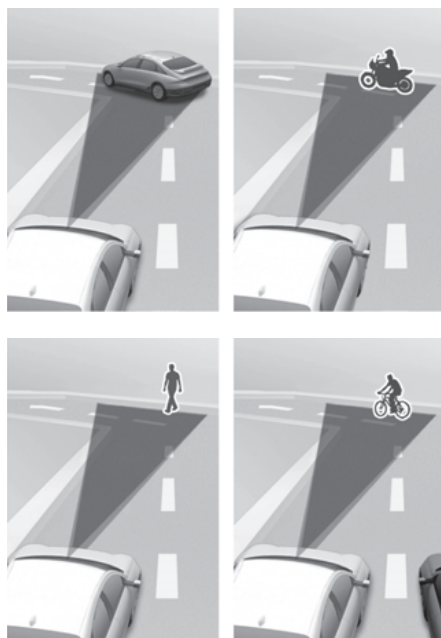
⚠ WARNING

- Driving on a curved road



Forward Collision-Avoidance Assist may not detect other vehicles, powered two-wheelers, pedestrians or cyclists in front of you when driving on curved roads adversely affecting the performance of the sensors. This may result in no warning, braking assist or steering assist (if equipped) when necessary.

When driving on a curve, you must maintain a safe braking distance, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



Forward Collision-Avoidance Assist may detect a vehicle, powered two-wheeler, pedestrian or cyclist in the next lane or outside the lane when driving on a curved road.

If this occurs, Forward Collision-Avoidance Assist may unnecessarily warn the driver and control the brake or steering wheel (if equipped). Always check the traffic conditions around the vehicle.

- Driving on an inclined road



Forward Collision-Avoidance Assist may not detect other vehicles, powered two-wheelers, pedestrians or cyclists in front of you while driving uphill or downhill, adversely affecting the performance of the sensors.

This may result in unnecessary warning, braking assist or steering assist (if equipped) or no warning, braking assist or steering assist (if equipped) when necessary.

Also, vehicle speed may rapidly decrease when a vehicle, powered two-wheeler, pedestrian or cyclist ahead is suddenly detected.

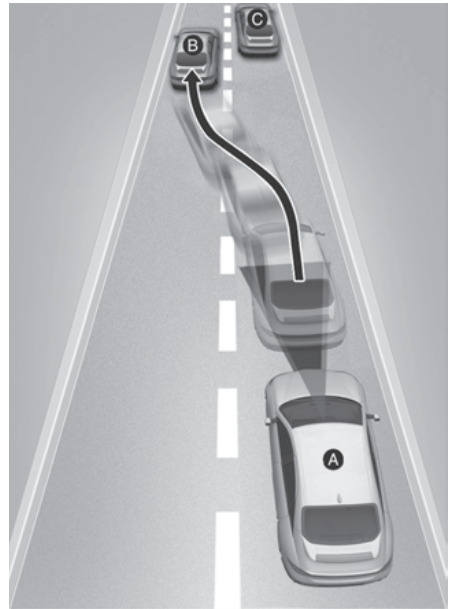
Always have your eyes on the road while driving uphill or downhill and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Changing lanes



[A] Your vehicle
[B] Lane changing vehicle

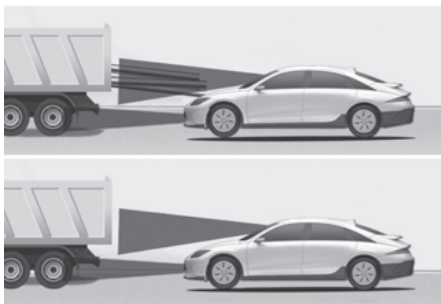
When a vehicle or powered two-wheeler moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Forward Collision-Avoidance Assist may not immediately detect the vehicle or powered two-wheeler when the vehicle or powered two-wheeler changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



[A] Your vehicle
[B] Lane changing vehicle
[C] Same lane vehicle

When a vehicle in front of you merges out of the lane, Forward Collision-Avoidance Assist may not immediately detect the vehicle or powered two-wheeler that is now in front of you. In this case, you must maintain a safe braking distance, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Detecting vehicle



If the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance, additional special attention is required. Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In these instances, you must maintain a safe braking distance from the rearmost object, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain distance.

WARNING

- When you are towing a trailer or another vehicle, turn off Forward Collision-Avoidance Assist for safety reasons.
- Forward Collision-Avoidance Assist may operate if objects that are similar in shape or characteristics to vehicles, powered two-wheelers, pedestrians and cyclists are detected.
- Forward Collision-Avoidance Assist does not operate on bicycles, or smaller wheeled objects, such as luggage bags, shopping carts, or strollers.
- Forward Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Forward Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.

Information

For more information on the precautions of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

i Information

This device complies with Industry Canada RSS-210 standard.

Operation is subject to the following three 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.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

i Information

Radio frequency radiation exposure information:

This equipment complies with RSS-210 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Lane Keeping Assist (LKA)

While driving over a certain speed, Lane Keeping Assist detects lane markings (or road edges) and may warn you if your vehicle leaves the lane without using the turn signal and may assist with steering to prevent your vehicle departing from its travel lane.

Detecting sensor



(1) Front view camera

The front view camera is used as a detecting sensor to detect lane markings (or road edges).

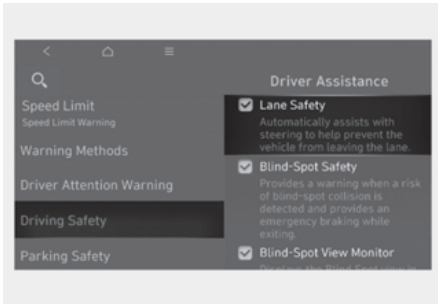
Refer to the picture above for the detailed location of the detecting sensor.

⚠ CAUTION

For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Lane Keeping Assist Settings

Lane Safety



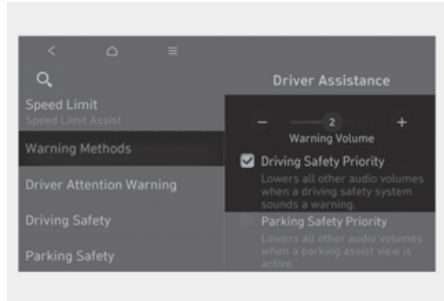
With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Lane Safety** from the Settings menu to set whether to use each function.

If **Lane Safety** is selected, Lane Keeping Assist will automatically assist the driver's steering when lane departure is detected to help prevent the vehicle from moving out of its lane. If **Lane Safety** is deselected, Lane keeping Assist will turn off and the (⚠) indicator light will turn off on the instrument cluster.

WARNING

- Lane Keeping Assist does not control the steering wheel when the vehicle is driven in the middle of the lane.
- The driver should always be aware of the surroundings. If **Lane Safety** is deselected, Lane Keeping Assist cannot assist you.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

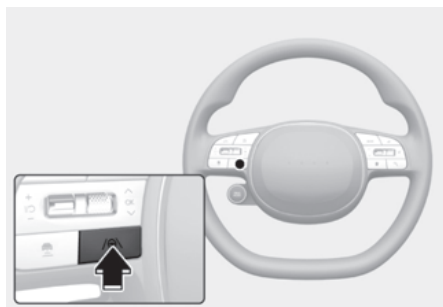
- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, the Hands-Off warning volume will not be turned off but Warning volume will sound as **1**.

Lane Keeping Assist Operation

Turning Lane Keeping Assist On/Off



With the vehicle on, press and hold the Lane Driving Assist button () located on the steering wheel to turn on Lane Keeping Assist. The () indicator light will illuminate on the instrument cluster.

Information

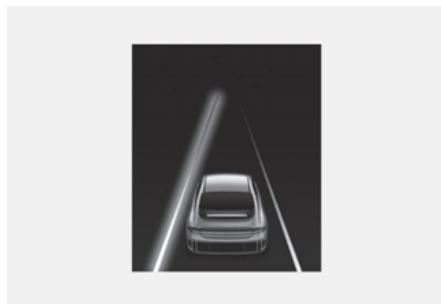
- When Lane Keeping Assist is ready, the grey () indicator light illuminates on the cluster.
- When Lane Keeping Assist is able to operate, the green () indicator light illuminates on the cluster.

Warning and control

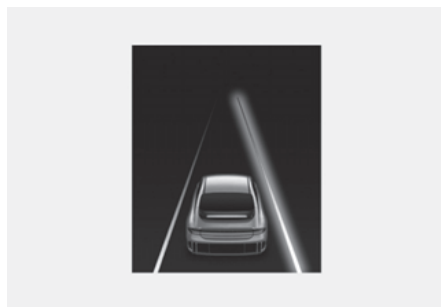
Lane Keeping Assist will warn and control the vehicle with Lane Departure Warning and Lane Keeping Assist.

Lane Departure Warning

Left



Right

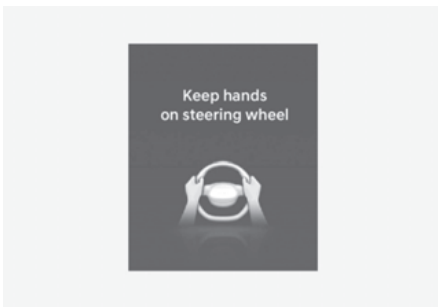


- To warn the driver that the vehicle is departing from the projected lane in front, the green () indicator light will blink on the instrument cluster, the lane line will blink on the instrument cluster depending on which direction the vehicle is veering, and an audible warning will sound.
- Lane Departure Warning will operate when your vehicle speed is between about 60-200km/h (40-120 mph).

Lane Keeping Assist

- To warn the driver that the vehicle is departing from the projected lane in front, the green (↔) indicator light will blink on the instrument cluster, and the steering wheel will make adjustments to keep vehicle inside the lane.
- Lane Keeping Assist will operate when your vehicle speed is between about 60-200 km/h (40-120 mph).

Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the **'Keep hands on steering wheel'** warning message will appear on the instrument cluster, and an audible warning will sound in stages.

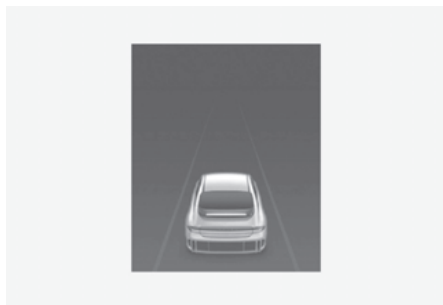
WARNING

- The steering wheel may not be assisted if the steering wheel is held very tight or the steering wheel is steered over a certain degree.
- Lane Keeping Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.
- The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel while driving.
- If the steering wheel is held very lightly, the hands-off warning message may appear because Lane Keeping Assist may not recognize that the driver has their hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

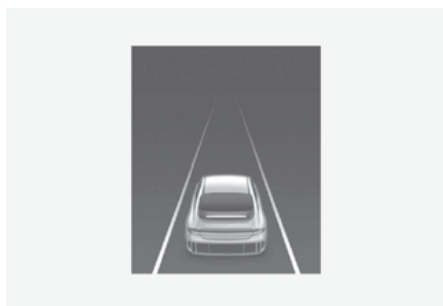
Information

- For more information on instrument cluster settings, refer to the "Cluster Display" section in chapter 4.
- When lane markings (or road edges) are detected, the lane lines on the instrument cluster will change from grey to white.
- When the lane markings (or road edges) are detected and Highway Lane Change Assist is on, the lane lines on the instrument cluster may change to green.

Lane undetected

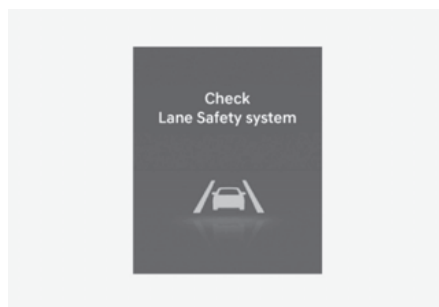


Lane detected



Lane Keeping Assist Malfunction and Limitations

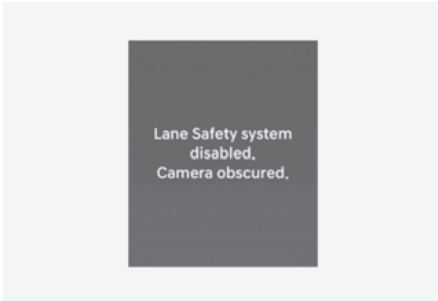
Lane Keeping Assist malfunction



When Lane Keeping Assist is not working properly, the 'Check Lane Safety system' warning message will appear and the yellow (🚦) indicator light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the instrument cluster.
- Even though the steering is assisted by Lane Keeping Assist, the driver may control the steering wheel.
- The steering wheel may feel heavier or lighter when the steering wheel is assisted by Lane Keeping Assist than when it is not.

Lane Keeping Assist disabled



When the front windshield where the front view camera is located, or sensor is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Lane Keeping Assist.

If this occurs, the **'Lane Keeping Assist system disabled. Camera obscured'** warning message and master (⚠️) light or Lane Keeping Assist warning light (🚦) will appear on the instrument cluster.

Lane Keeping Assist will operate properly when snow, rain or foreign material is removed.

If Lane Keeping Assist does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message or warning light does not appear on the instrument cluster, Lane Keeping Assist may not properly operate.
- If the vehicle is turned off and restarted while the camera is blocked or malfunctioned, the condition is maintained. Therefore, Lane Keeping Assist may not operate properly.

Limitations of Lane Keeping Assist

Lane Keeping Assist may not operate properly or may operate unexpectedly under the following circumstances:

- The lane is contaminated or difficult to detect because:
 - The lane markings (or road edge) are covered with rain, snow, dirt, oil, etc.
 - The color of the lane marking (or road edge) is not distinguishable from the road
 - There are markings (or road edges) on the road near the lane or the markings (or road edges) on the road look similar to the lane markings (or road edge)
 - The lane marking (or road edge) is indistinct or damaged
 - The shadow is on the lane marking (or road edge) by a median strip, trees, guardrail, noise barriers, etc.
- The lane number increases or decreases, or the lane markings (or road edges) are crossing
- There are more than two lane markings (or road edges) on the road
- The lane markings (or road edges) are complicated or a structure substitutes for the lines, such as a construction area
- There are road markings, such as zigzag lanes, crosswalk markings and road signs
- The lane suddenly disappears, such as at the intersection
- The lane (or road width) is very wide or narrow
- There is a road edge without a lane
- There is a boundary structure in the roadway, such as a tollbooth, sidewalk, curb, etc.
- The distance to the front vehicle is extremely short or the vehicle in front is covering the lane marking (or road edge)

i Information

For more information on the limitations of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

⚠ WARNING

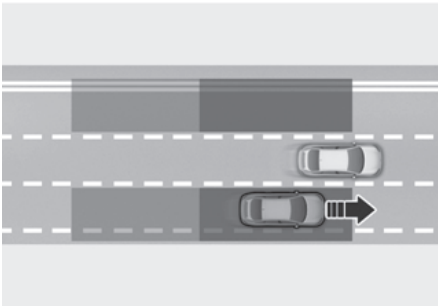
Take the following precautions when using Lane Keeping Assist:

- The driver has the responsibility to safely drive and control the vehicle. Do not solely rely on Lane Keeping Assist.
 - The operation of Lane Keeping Assist can be cancelled or not work properly depending on road conditions and surroundings. Always be cautious while driving.
 - Refer to the "Lane Keeping Assist Malfunction and Limitations" if the lane is not detected properly.
 - When you are towing a trailer or another vehicle, turn off Lane Keeping Assist for safety reasons.
 - If the vehicle is driven at high speed, the steering wheel will not be controlled. The driver must always follow the speed limit when using Lane Keeping Assist.
 - If any other system's warning message is displayed or audible warning is generated, Lane Keeping Assist warning message may not be displayed and audible warning may not be generated.
 - You may not hear the warning sound of Lane Keeping Assist if the surrounding is noisy.
- If you attach objects to the steering wheel, steering may not be assisted properly.
 - Lane Keeping Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.
 - Lane Keeping Assist will not operate when:
 - The turn signal or hazard warning flasher is turned on.
 - The vehicle is not driven in the center of the lane when Lane Keeping Assist is turned on or right after changing a lane.
 - ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated.
 - The vehicle is driven on a sharp curve.
 - Vehicle speed is below 55 km/h (35 mph) or above 210 km/h (130 mph).
 - The vehicle makes sudden lane changes.
 - The vehicle brakes suddenly.
 - Loading freight exceeding the maximum load or placing freight unevenly may undermine driving safety. This may also prevent Lane Keeping Assist from operating properly.

Blind-Spot Collision-Avoidance Assist (BCA)

 If equipped

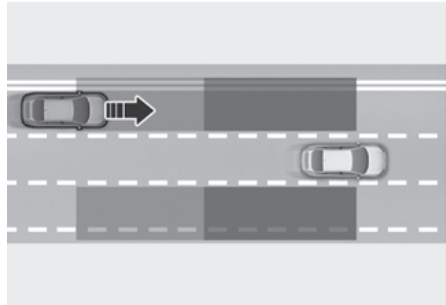
Blind-Spot Collision-Avoidance Assist detects approaching vehicles in the driver's blind spot areas and warn you of a possible collision with a warning light and a warning sound. If there is a collision risk when exiting a parallel space, Blind-Spot Collision-Avoidance Assist may assist with braking your vehicle to help avoid a collision.



Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is in the blind spot.

CAUTION

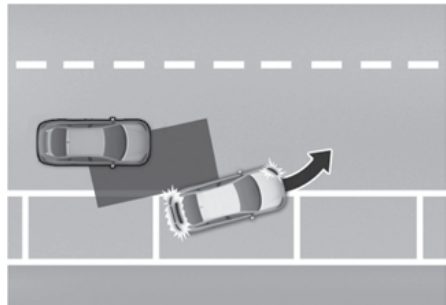
The detecting range may vary depending on the speed of your vehicle. Even if there is a vehicle in the blind spot area, Blind-Spot Collision-Avoidance Assist may not warn you when you pass by at high speeds.



Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.

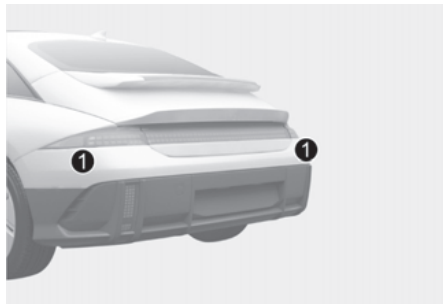
CAUTION

Warning timing may vary depending on the speed of the vehicle approaching at high speed.



When you are driving forward out of a parking space, if Blind-Spot Collision-Avoidance Assist judges that there is a collision risk with an approaching vehicle in the blind spot, it can help avoid collision by applying the brake.

Detecting sensor



(1) Rear corner radar

Refer to the picture above for the detailed location of the detecting sensors.

CAUTION

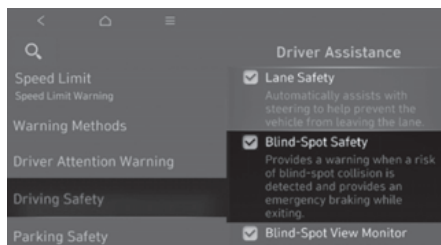
Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the detecting sensor assembly, or cause any damage to it.
- If the rear corner radar or near the radar has been damaged or impacted in any way, even though the warning message does not appear on the instrument cluster, Blind-Spot Collision-Avoidance Assist may not operate properly. Have the vehicle inspected by an authorized HYUNDAI dealer.
- If the rear corner radars have been replaced or repaired, have the vehicle inspected by an authorized HYUNDAI dealer.
- Rear bumper genuine parts with rear corner radars have proven their performance. Replacing or painting the rear bumper may result in poor performance of Blind-Spot Collision-Avoidance Assist. When the parts need to be replaced or modified, make sure to use genuine HYUNDAI parts.

- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.
- Blind-Spot Collision-Avoidance Assist may not work properly if the bumper has been replaced, or the surroundings of the rear corner radar have been damaged or paint has been applied.
- If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision-Avoidance Assist may not operate.

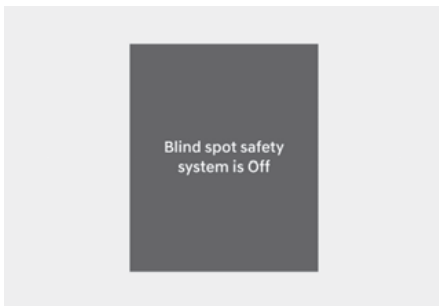
Blind-Spot Collision-Avoidance Assist settings

Blind-Spot Safety



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Blind-Spot Safety** from the settings menu to set whether to use each function.

- If **Blind-Spot Safety** is selected, Blind-Spot Collision-Avoidance Assist will warn the driver with a warning message, an audible warning depending on the collision risk levels. Braking assist will be applied for parking exit depending on the collision risk levels.



When the vehicle is restarted with Blind-Spot Collision-Avoidance Assist off, the '**Blind-spot safety system is Off**' message will appear on the instrument cluster.

If you select **Blind-Spot Safety**, warning light on the side view mirror will blink for three seconds. In addition, if the vehicle is turned on, when **Blind-Spot Safety** is selected, the warning light on the side view mirror will blink for three seconds.

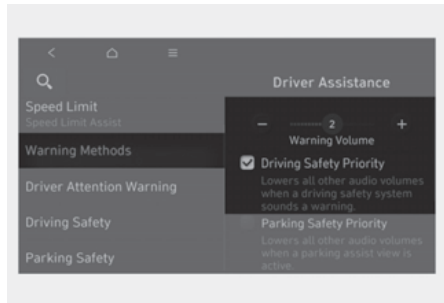
WARNING

The driver should always be aware of the surroundings and drive safely. If **Blind-Spot Safety** is deselected, Blind-Spot Collision-Avoidance Assist cannot assist you.

Information

If the vehicle is restarted, Blind-Spot Collision-Avoidance Assist will maintain the last setting.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Blind-Spot Collision-Avoidance Assist Operation

Collision Warning (while driving)



To warn the driver a vehicle is detected, the warning light on the side view mirror illuminates.

Vehicle detection operates under following conditions.

- Your vehicle speed: above 20 km/h (12 mph)
- Vehicle in the blind spot area: above 10 km/h (7 mph)

Collision warning operates when the turn signal is turned on in the direction of the detected vehicle.

- To warn the driver of a collision, the warning light on the side view mirror blinks. At the same time, an audible warning sounds and the steering wheel vibrates.
- When the turn signal is turned off, the collision warning is canceled and Blind-Spot Collision-Avoidance Assist returns to vehicle detection state.

Collision warning operates under following conditions.

- Your vehicle speed: above 40 km/h (25 mph)
- Vehicle in the blind spot area: above 10 km/h (7 mph)

! WARNING

- The detecting range of the rear corner radar is determined by a standard road width, therefore, on a narrow road, Blind-Spot Collision-Avoidance Assist may detect other vehicles two lanes over and warn you. In contrast, on a wide road, Blind-Spot Collision-Avoidance Assist may not be able to detect a vehicle driving in the next lane and may not warn you.
- When the hazard warning flasher is on, the collision warning by the turn signal will not operate.

i Information

The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

Collision-Avoidance Assist (while exiting parallel spot)



- To warn the driver of a collision, the warning light on the side view mirror will blink and a warning message will appear on the instrument cluster. At the same time, an audible warning will sound, warning light on the head-up display (if equipped) will blink.

- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is below 3 km/h (2 mph) and the speed of the vehicle in the blind spot area is above 5 km/h (3 mph).



- When the vehicle is stopped due to emergency braking, the **'Drive carefully'** warning message will appear on the instrument cluster.
For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.

WARNING

Take the following precautions when using Blind-Spot Collision-Avoidance Assist:

- For your safety, only change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Blind-Spot Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Collision-Avoidance Assist if the surrounding is noisy.
- Blind-Spot Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid a collision.
- When Blind-Spot Collision-Avoidance Assist is operating, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.
- During Blind-Spot Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Blind-Spot Collision-Avoidance Assist, the vehicle's basic braking performance will function normally.
- Blind-Spot Collision-Avoidance Assist does not operate in all situations and cannot avoid all collisions.
- Blind-Spot Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- Driver should maintain control of the vehicle at all times. Do not depend on Blind-Spot Collision-Avoidance Assist. Maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never operate Blind-Spot Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.

WARNING

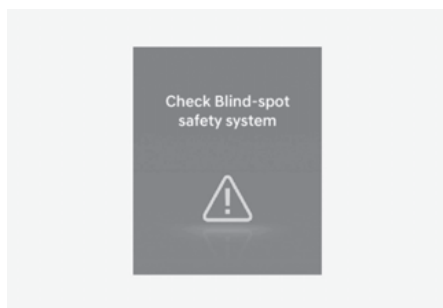
The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

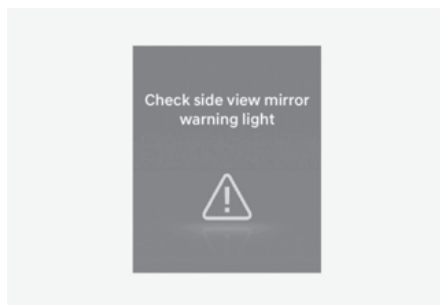
- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

Blind-Spot Collision-Avoidance Assist Malfunction and Limitations

Blind-Spot Collision-Avoidance Assist malfunction

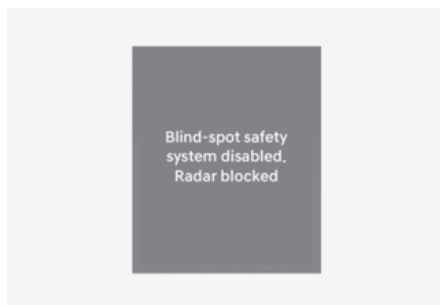


When Blind-Spot Collision-Avoidance Assist is not working properly, the '**Check Blind-spot safety system**' warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light will illuminate on the instrument cluster. If this occurs, Have the vehicle inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the '**Check side view mirror warning light**' warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

Blind-Spot Collision-Avoidance Assist disabled



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Blind-Spot Collision-Avoidance Assist.

If this occurs, the '**Blind-Spot Safety system disabled. Radar blocked**' warning message will appear on the instrument cluster.

Blind-Spot Collision-Avoidance Assist will operate properly when such foreign material or trailer, etc., is removed, and then the vehicle is restarted.

If Blind-Spot Collision-Avoidance Assist does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the instrument cluster, Blind-Spot Collision-Avoidance Assist may not properly operate.
- Blind-Spot Collision-Avoidance Assist may not properly operate in an area (for example, open terrain) where any objects are not detected right after the vehicle is turned on, or when the detecting sensor is blocked with foreign material right after the vehicle is turned on.

CAUTION

Turn off Blind-Spot Collision-Avoidance Assist to install or remove a trailer, carrier, or another attachment. Turn on Blind-Spot Collision-Avoidance Assist when finished.

Limitations of Blind-Spot Collision-Avoidance Assist

Blind-Spot Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- There is inclement weather, such as heavy snow, heavy rain, etc.
- The rear corner radar is covered with snow, rain, dirt, etc.
- The temperature around the rear corner radar is high or low
- Driving on a highway ramp
- The road pavement (or the peripheral ground) abnormally contains metallic components (for example, possibly due to subway construction)
- There is a fixed object near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lamps, signs, tunnels, walls, etc. (including double structures)
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.)
- Driving through a narrow road where trees or grass are overgrown
- Driving on a wet road surface, such as a puddle on the road
- The other vehicle drives very close behind your vehicle, or the other vehicle passes by your vehicle in close proximity
- The speed of the other vehicle is very fast that it passes by your vehicle in a short time

- Your vehicle passes by the other vehicle
- Your vehicle changes lane
- Your vehicle has started at the same time as the vehicle next to you and has accelerated
- The vehicle in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A trailer, carrier or other attachment is installed around the rear corner radar
- The bumper around the rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the rear corner radar is impacted, damaged or the radar is out of position
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.

Blind-Spot Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly when the following objects are detected:

- A motorcycle or bicycle is detected
- A vehicle such as a flat trailer is detected
- A big vehicle such as a bus or truck is detected
- A moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected

Braking control may not work, driver's attention is required in the following circumstances:

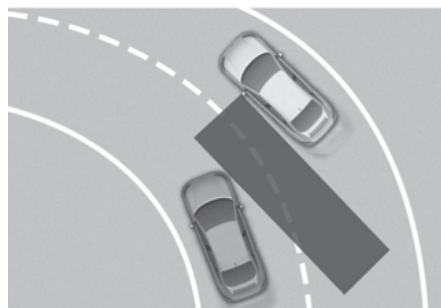
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The braking system has been modified
- The vehicle makes abrupt lane changes

i Information

For more information on the limitations of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" and "Lane Keeping Assist (LKA)" section in this chapter.

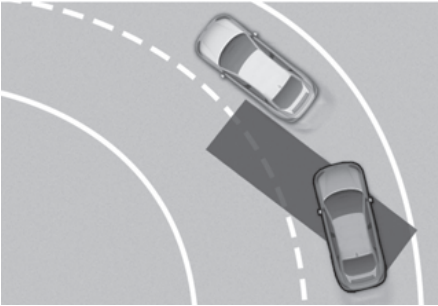
WARNING

- Driving on a curved road



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.

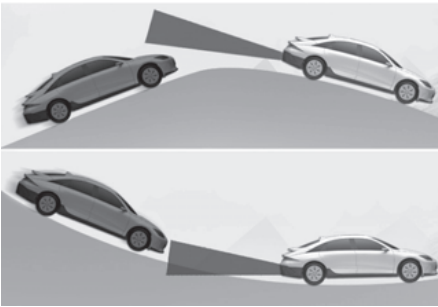
Always pay attention to road and driving conditions while driving.



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a curved road. The function may recognize a vehicle in the same lane.

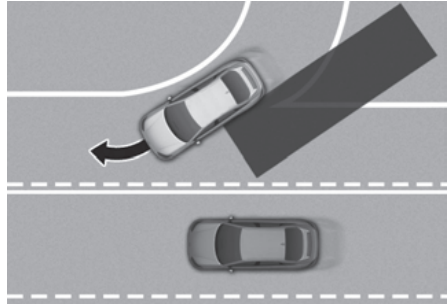
Always pay attention to road and driving conditions while driving.

- Driving on an inclined road



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a slope. The function may not detect the vehicle in the next lane or may incorrectly detect the ground or structure. Always pay attention to road and driving conditions while driving.

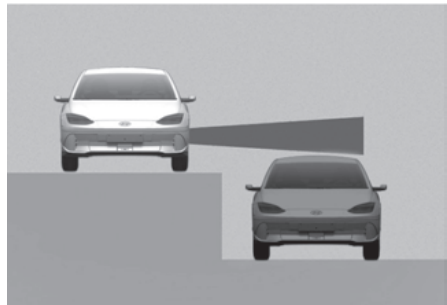
- Driving where the road is merging/dividing



Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions while driving.

- Driving where the heights of the lanes are different



Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions while driving.

WARNING

- When you are towing a trailer or another vehicle, make sure that you turn off Blind-Spot Collision-Avoidance Assist.
 - Blind-Spot Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
 - Blind-Spot Collision-Avoidance Assist may not operate for 3 seconds after the vehicle is started, or the front view camera or rear corner radars are initialized.
-

i Information

This device complies with Industry Canada RSS-210 standard.

Operation is subject to the following three 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.
 3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
-

i Information

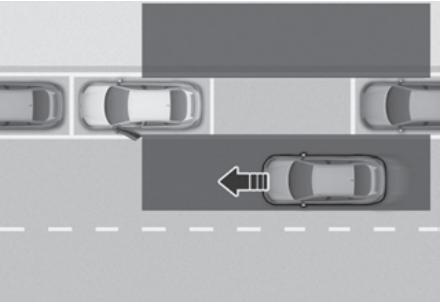
Radio frequency radiation exposure information:

This equipment complies with RSS-210 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safe Exit Warning (SEW)

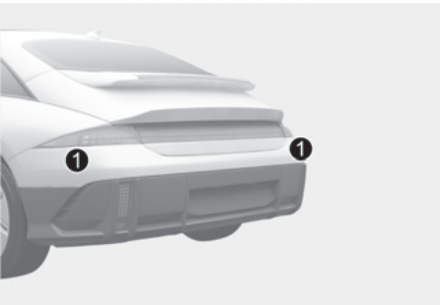


While your vehicle is stopped, and if Safe Exit Warning detects a vehicle approaching the rear corner of your vehicle and a passenger opens a door, Safe Exit Warning may warn you with a warning message and a warning sound to help avoid a collision.

CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

Detecting sensor



(1) Rear corner radar

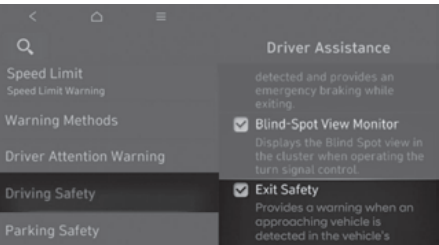
Refer to the picture above for the detailed location of the detecting sensors.

CAUTION

For more information on the precautions of the rear corner radars, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

Safe Exit Warning Settings

Exit Safety



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Exit Safety** from the Settings menu to turn on Safe Exit Warning and deselect to turn off the function.

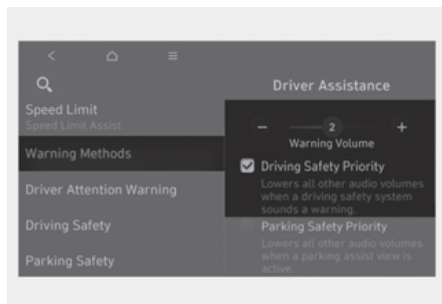
WARNING

The driver should always be aware of the surroundings. If **Exit Safety** is deselected, Safe Exit Warning cannot assist you.

Information

If the vehicle is restarted, Safe Exit Warning will maintain the last setting.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

i Information

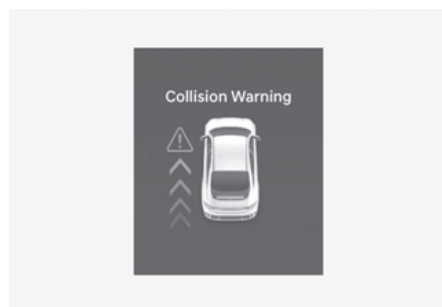
- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Safe Exit Warning Operation

Safe Exit Warning

Safe Exit Warning will warn and control the vehicle with Collision warning when exiting vehicle.

Collision warning when exiting vehicle



- When an approaching vehicle from the rear is detected at the moment a door is opened, the '**Collision Warning**' warning message will appear on the instrument cluster, and an audible warning will sound.
- Safe Exit Warning will warn the driver when your vehicle speed is below 3km/h (2 mph), and the speed of the approaching vehicle from the rear is above 6 km/h (4 mph).

WARNING

Take the following precautions when using Safe Exit Warning:

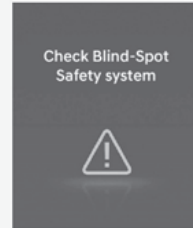
- For your safety, only change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Safe Exit Warning's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Warning if the surroundings are noisy.
- Safe Exit Warning does not operate in all situations and cannot prevent all collisions.
- Safe Exit Warning may warn the driver late or may not warn the driver depending on the road and driving conditions. Always check vehicle surroundings.
- The driver and passengers are responsible for accidents that occur while exiting the vehicle. Always check the surroundings before you exit the vehicle.

Information

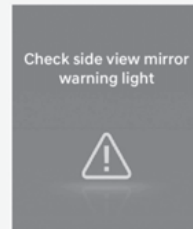
- After the vehicle is turned off, Safe Exit Warning operates about for 3 minutes, but turns off immediately if the doors are locked.
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

Safe Exit Warning Malfunction and Limitations

Safe Exit Warning malfunction

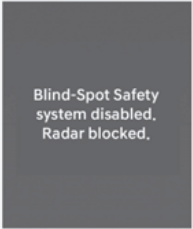


When Safe Exit Warning is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the instrument cluster for several seconds, and the master (Δ) warning light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the '**Check side view mirror warning light**' warning message will appear on the instrument cluster for several seconds, and the master (Δ) warning light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

Safe Exit Warning disabled



Blind-Spot Safety
system disabled.
Radar blocked.

When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Safe Exit Warning.

If this occurs, the **'Blind-Spot Safety system disabled. Radar blocked'** warning message will appear on the instrument cluster.

Safe Exit Warning will operate properly when such foreign material or trailer, etc., is removed, and then the vehicle is restarted.

If Safe Exit Warning does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the instrument cluster, Safe Exit Warning may not properly operate.
- Safe Exit Warning may not properly operate in an area (for example, open terrain) where any objects are not detected right after the vehicle is turned on, or when the detecting sensor is blocked with foreign material right after the vehicle is turned on.

CAUTION

Turn off Safe Exit Warning to install or remove a trailer, carrier, or another attachment. Turn on Safe Exit Warning when finished.

Limitations of Safe Exit Warning

Safe Exit Warning may not operate properly, or it may operate unexpectedly under the following circumstances:

- Getting out of the vehicle where trees or grass are overgrown
- Getting out of the vehicle where the road is wet
- The approaching vehicle is very fast or very slow

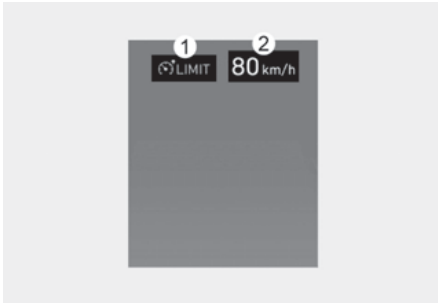
Information

For more information on the limitations of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

WARNING

- Safe Exit Warning may not operate properly if interfered by strong electromagnetic waves.
- Safe Exit Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.
- If the vehicle is turned off and restarted while the rear corner radar is blocked or malfunctioned, the condition is maintained. Therefore, Safe Exit Warning may not operate properly.

Manual Speed Limit Assist (MSLA)



- (1) Speed Limit indicator
- (2) Set speed

You can set the speed limit when you do not want to drive over a specific speed.

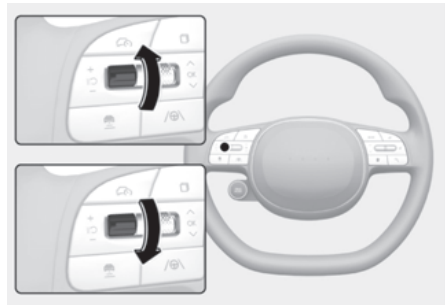
If you drive over the preset speed limit, Manual Speed Limit Assist will operate (set speed limit will blink and chime will sound) until the vehicle speed returns within the speed limit.

Manual Speed Limit Assist Operation

Setting speed limit

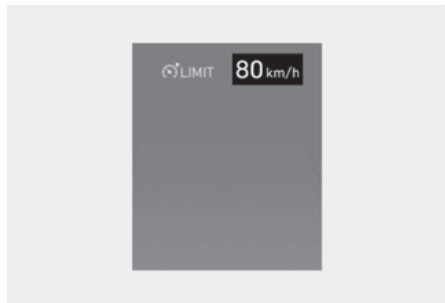


1. Press and hold Driving Assist (🚗) button at the desired speed. The Speed Limit (LIMIT) indicator will illuminate on the instrument cluster.



2. Push the + switch up or - switch down, and release it at the desired speed.

Push the + switch up or - switch down and hold it. The speed will increase or decrease to the nearest multiple of ten in km/h (multiple of five in mph) at first, and then increase or decrease by 10 km/h (5 mph).



3. The set speed limit will be displayed on the instrument cluster.

If you would like to drive over the preset speed limit, depress the accelerator pedal deeply

The set speed limit will blink and chime will sound until you return the vehicle speed within the speed limit.

i Information

The set speed may differ depending on the vehicle specifications. You may not increase the set speed above the maximum set speed.

Temporarily pausing Manual Speed Limit Assist



Press the **||** switch to temporarily pause the set speed limit. The set speed limit will turn off but the Speed Limit (**SPEED LIMIT**) indicator will stay on.

Resuming Manual Speed Limit Assist



To resume Manual Speed Limit Assist after the function was paused, operate the +, -, **||** switch.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the instrument cluster.

If you press the **||** switch, vehicle speed will resume to the preset speed.

Turning off Manual Speed Limit Assist



Press the Driving Assist (**DRIVING ASSIST**) button to turn Manual Speed Limit Assist off. The Speed Limit (**SPEED LIMIT**) indicator will go off.

⚠ WARNING

Take the following precautions when using Manual Speed Limit Assist:

- Always set the vehicle speed to the speed limit in your area.
- Keep Manual Speed Limit Assist off when the function is not in use, to avoid inadvertently setting a speed. Check that the Speed Limit (**SPEED LIMIT**) indicator is off.
- Manual Speed Limit Assist does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and be aware of unexpected and sudden situations. Pay attention to the road conditions at all times.

Intelligent Speed Limit Assist (ISLA)

Intelligent Speed Limit Assist uses information from the detected road signs and uses the navigation system data to inform you of the speed limit and to help maintain within the speed limit on the road.

⚠ CAUTION

- Intelligent Speed Limit Assist may not operate properly if the function is used in other countries.
- If a navigation system is equipped to your vehicle, the navigation needs to be regularly updated for Intelligent Speed Limit Assist to operate properly.
- The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system and the quick reference guide.

Detecting sensor



(1) Front view camera

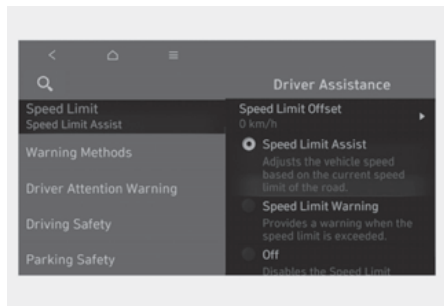
Refer to the picture above for the detailed location of the detecting sensor.

⚠ CAUTION

For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Intelligent Speed Limit Assist Settings

Speed Limit



With the vehicle on, select or deselect **Setup > Vehicle > Driver Assistance > Speed Limit** from the Settings menu to set whether to use each function.

- If **Speed Limit Offset** is selected, the Speed Limit Offset can be adjusted.

Speed Limit Warning and Speed Limit Assist will warn the driver and adjust the driving speed when vehicle speed exceeds the speed at which the set Offset is added to speed limit.

- If **Speed Limit Assist** is selected, Intelligent Speed Limit Assist will inform the driver of speed limit and additional road signs. In addition, Intelligent Speed Limit Assist will inform the driver to change set speed of Manual Speed Limit Assist and/or Smart Cruise Control to help the driver stay within the speed limit.
- If **Speed Limit Warning** is selected, Intelligent Speed Limit Assist will inform the driver of speed limit. In addition, Intelligent Speed Limit Assist will warn the driver when the vehicle is driven faster than the speed limit.
- If **Off** is selected, Intelligent Speed Limit Assist will turn off.

WARNING

For your safety, only change the Settings after parking the vehicle at a safe location.

Information

- Speed Limit Assist function operates based on the Offset setting added to the speed limit. If you want to change the set speed according to the speed limit, adjust the offset to '0'.
- The setting of 'Speed Offset' is not reflected in Navigation-based Smart Cruise Control (NSCC).

Intelligent Speed Limit Assist Operation

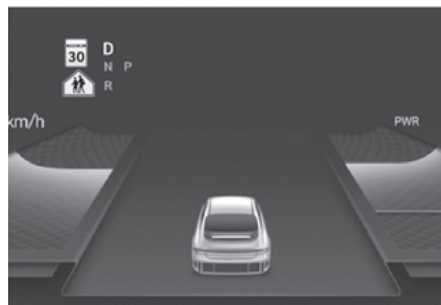
Warning and control

Intelligent Speed Limit Assist will warn and control the vehicle speed by "Displaying speed limit", "Warning overspeed" and "Changing set speed".

Information

- Intelligent Speed Limit Assist warning and control are described based on the Offset adjust to "0". For details on Offset setting, refer to the "Intelligent Speed Limit Assist Settings".

Displaying speed limit

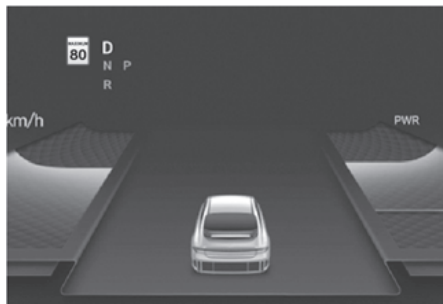


Speed limit information is displayed on the instrument cluster.

Information

- If speed limit information of the road cannot be recognized, '---' sign will be displayed. Please refer to the "Limitations of Intelligent Speed Limit Assist" if the road signs are difficult to recognize.
- Intelligent Speed Limit Assist provides additional road sign information in addition to speed limit. The additional road sign information provided may vary according to your country. The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the instrument cluster.

Warning overspeed



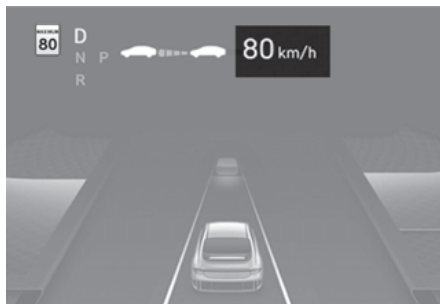
When driving at a speed higher than the displayed speed limit, the speed limit is displayed in red.

Changing set speed



If the speed limit of the road changes during the operation of Manual Speed Limit Assist or Smart Cruise Control, an arrow in the direction of up or down is displayed to inform the driver that the set speed needs to be changed. At this time, the driver can change the set speed according to the speed limit by using the + or - switch on the steering wheel.

Set Speed Auto Change (Navigation equipped)



Manual Speed Limit Assist or Smart Cruise Control assists the vehicle to adjust its speed according to the speed limit. When the cruising speed is set as same as the speed limit, the vehicle automatically adjusts its speed if the speed limit changes. The function operates on the road which has a speed limit of 70 km/h (44 mph) or higher. When the function is active, the cruising speed on the instrument cluster appears in green.

WARNING

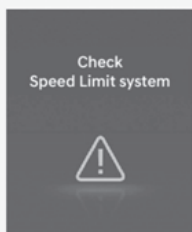
- If you want to drive below the speed limit, adjust the Offset under **0** or use the - switch on the steering wheel to lower the set speed.
- Even after changing the set speed according to the speed limit of the road, the vehicle can still be driven over the speed limit. If necessary, depress the brake pedal to reduce your driving speed.
- If the speed limit of the road is under 30 km/h (20 mph), the set speed change function will not work.
- Intelligent Speed Limit Assist operates using the speed units in the instrument cluster set by the driver. If the speed unit is not set to the speed unit used in your country, Intelligent Speed Limit Assist may not operate properly.

i Information

- For more information on Manual Speed Limit Assist operation, refer to the "Manual Speed Limit Assist (MSLA)" section in this chapter.
- For more information on Smart Cruise Control operation, refer to the "Smart Cruise Control (SCC)" section in this chapter.

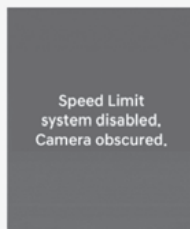
Intelligent Speed Limit Assist Malfunction and Limitations

Intelligent Speed Limit Assist malfunction



When Intelligent Speed Limit Assist is not working properly, the '**Check Speed Limit system**' warning message will appear on the cluster for several seconds, and the master (▲) warning light and (⊞) warning light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

Intelligent Speed Limit Assist disabled



When the front windshield where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Intelligent Speed Limit Assist. If this occurs, the '**Speed Limit system disabled. Camera obscured**' warning message and (⊞) warning light will appear on the instrument cluster.

Intelligent Speed Limit Assist will operate properly when snow, rain or foreign material is removed.

If Intelligent Speed Limit Assist does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message or warning light does not appear on the instrument cluster, Intelligent Speed Limit Assist may not properly operate.
- If the vehicle is turned off and restarted while the camera is blocked or malfunctioned, the condition is maintained. Therefore, Intelligent Speed Limit Assist may not operate properly.

Limitations of Intelligent Speed Limit Assist

Intelligent Speed Limit Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- The road sign is contaminated or indistinguishable
 - The road sign is difficult to see due to bad weather, such as rain, snow, fog, etc.
 - The road sign is not clear or damaged
 - The road sign is partially obscured by surrounding objects or shadow
- The road signs do not conform to the standard
 - The text or picture on the road sign is different from the standard
 - The road sign is installed between the main line and the exit road or between diverging roads
 - There is no conditional road signs on the road sign located on the exit road
 - A sign is attached to another vehicle
- The distance between the vehicle and the road signs is too far
- The vehicle encounters illuminant road signs
- Intelligent Speed Limit Assist incorrectly recognizes numbers or pictures in the street signs or other signs as the speed limit
- A road sign near the road you are driving is detected
- The other traffic sign or signboards are alongside the road sign
- Multiple signs are installed close together
- The minimum speed limit sign is misrecognized
- The minimum speed limit sign is on the road
- The brightness changes suddenly, for example when entering or exiting a tunnel or passing under a bridge

- Headlights are not used or the brightness of the headlights are weak at night or in the tunnel
- Road signs are difficult to recognize due to the reflection of sunlight, street lights, or oncoming vehicles
- The navigation information or GPS information contain errors.
- The driver does not follow the guide of the navigation.
- The driver is driving on a new road that is not in the navigation system yet.
- The field of view of the front view camera is obstructed by sun glare
- Driving on a road that is sharply curved or continuously curved
- Driving through speed bumps, or driving up and down or left to right on steep inclines
- The vehicle is shaking heavily
- The navigation software is being updated while driving
- The navigation is restarted while driving

WARNING

- Intelligent Speed Limit Assist is a supplemental function that helps the driver comply with the speed limit on the road, and may not display the correct speed limit or control the driving speed properly.
- Always set the vehicle speed to the speed limit in your area.
- Intelligent Speed Limit Assist may not operate for 15 seconds after the vehicle is started, or the front camera is initialized.

Information

For more information on the limitations of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Driver Attention Warning (DAW)

Inattentive driving warning function

Driver Attention Warning monitors your driving pattern while driving. When the driver's attention level is below a certain level, Driver Attention Warning recommends a break to help with safe driving.

Leading vehicle departure alert function

Leading Vehicle Departure Alert function will inform the driver when a detected vehicle in front departs.

Detecting sensor



(1) Front view camera

The front view camera is used as a detecting sensor to help detect driving patterns and front vehicle departure while vehicle is being driven.

Refer to the picture above for the detailed location of the detecting sensor.

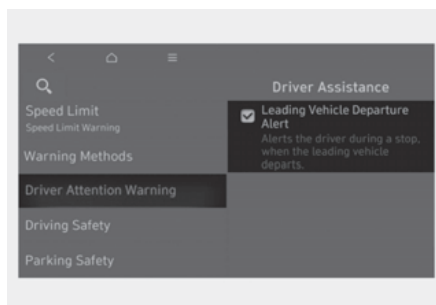
⚠ CAUTION

- Always keep the front view camera in good condition to maintain optimal performance of Driver Attention Warning.
- For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Driver Attention Warning Settings

Leading Vehicle Departure Alert

With the vehicle on, select or deselect **Setup > Vehicle > Driver Assistance > Driver Attention Warning** from the Settings menu to set whether to use the function.



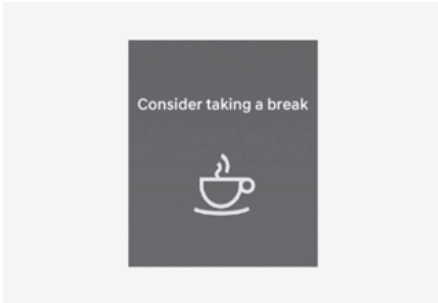
- If **Leading Vehicle Departure Alert** is selected, the function will inform the driver when a detected vehicle in front departs from a stop.

Driver Attention Warning Operation

Inattentive driving warning function

Driver Attention Warning is to warn the driver 'Consider taking a break'.

Taking a break



- The '**Consider taking a break**' message and Driver Attention Warning light (⚠️) will appear on the instrument cluster and an audible warning will sound to suggest that the driver take a break, when the driver's attention level is below a certain level.
- Driver Attention Warning will not suggest a break when the total driving time is shorter than 4 minutes or 4 minutes has not passed after the last break was suggested.
- A break is suggested when your vehicle speed is between about 0-200 km/h (0-120 mph).

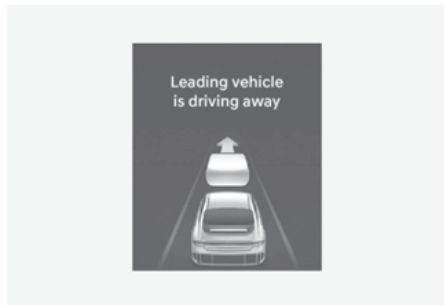
⚠️ WARNING

Only change the Settings after parking the vehicle at a safe location.

⚠️ CAUTION

- Driver Attention Warning may suggest a break depending on the driver's driving pattern or habits, even if the driver doesn't feel fatigue.
- Driver Attention Warning is a supplemental function and may not be able to determine whether the driver is inattentive.
- A driver who feels fatigued should take a break at a safe location, even though there is no break suggestion by Driver Attention Warning.

Leading Vehicle Departure Alert function



When a detected vehicle in front departs from a stop, Leading Vehicle Departure Alert will inform the driver by displaying the '**Leading vehicle is driving away**' message on the instrument cluster and an audible warning will sound.

⚠️ WARNING

- If any other system's warning message is displayed or audible warning is generated, Leading Vehicle Departure Alert's warning message may not be displayed and audible warning may not be generated.
- The driver has the responsibility to safely drive and control the vehicle.

CAUTION

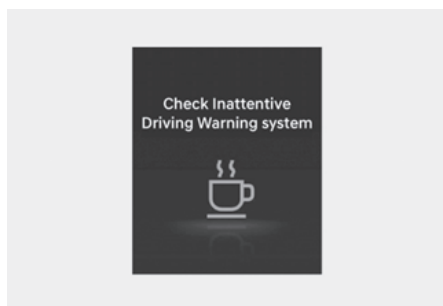
- Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

Information

The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

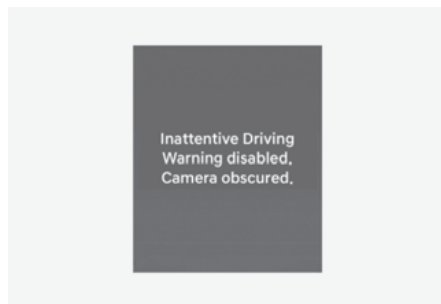
Driver Attention Warning Malfunction and Limitations

Driver Attention Warning malfunction



When Driver Attention Warning is not working properly, the '**Check Inattentive Driving Warning system**' warning message will appear on the instrument cluster for several seconds, and the master () warning light and Driver Attention Warning light () will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

Driver Attention Warning disabled



When the front windshield where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Driver Attention Warning. If this occurs, the '**Inattentive Driving Warning disabled. Camera obscured**' warning message will appear on the instrument cluster. Driver Attention Warning will operate properly when snow, rain or foreign material is removed. If Driver Attention Warning does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- Driver Attention Warning may not properly operate in an area (for example, open terrain) where any objects are not detected right after turning ON the vehicle.
- If the vehicle is turned off and restarted while the camera is blocked or malfunctioned, the condition is maintained. Therefore, Driver Attention Warning may not operate properly.

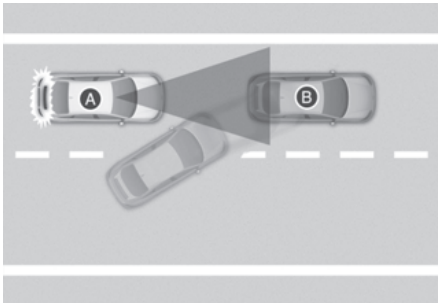
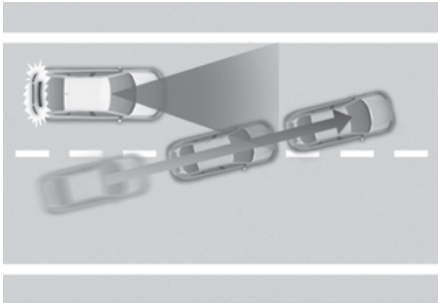
Limitations of Driver Attention Warning

Driver Attention Warning may not work properly in the following situations:

- The vehicle is driven violently
- The vehicle intentionally crosses over lanes frequently
- The vehicle is controlled by Driver Assistance system, such as Lane Keeping Assist

Leading Vehicle Departure Alert function

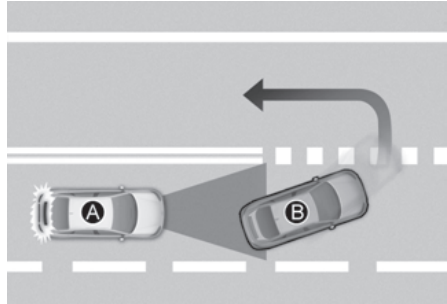
- When the vehicle cuts in



[A] Your vehicle
[B] Front vehicle

If a vehicle cuts in front of your vehicle, Leading Departure Alert may not operate properly.

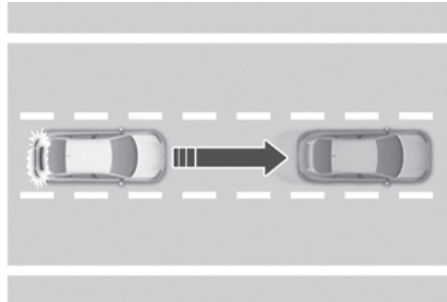
- When the vehicle ahead sharply steers



[A] Your vehicle
[B] Front vehicle

If the vehicle in front makes a sharp turn, such as to turn left or right or make a U- turn, etc., Leading Vehicle Departure Alert may not operate properly.

- When the vehicle ahead abruptly departs



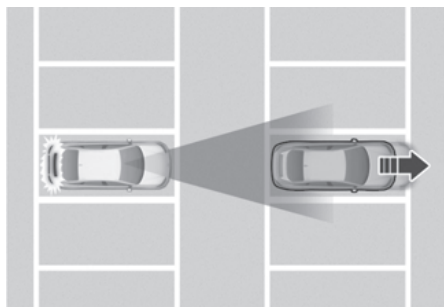
If the vehicle in front abruptly departs, Leading Vehicle Departure Alert may not operate properly.

- When a pedestrian or bicycle is between you and the vehicle ahead



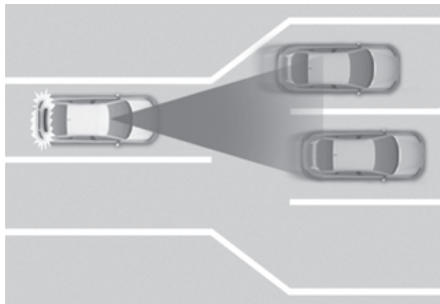
If there is a pedestrian(s) or bicycle(s) in between you and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

- When in a parking lot



If a vehicle parked in front drives away from you, Leading Vehicle Departure Alert may alert you that the parked vehicle is driving away.

- When driving at a tollbooth or intersection, etc.



If you pass a tollgate or intersection with lots of vehicles or you drive where lanes are merged or divided frequently, Leading Vehicle Departure Alert may not operate properly.

WARNING

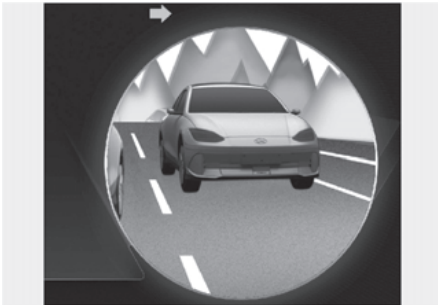
Driver Attention Warning may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.

Information

For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

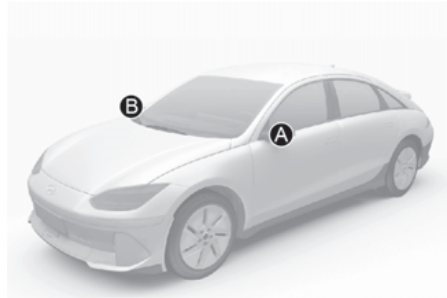
Blind-Spot View Monitor (BVM)

 If equipped



Blind-Spot View Monitor uses the wide-side view cameras to display the rear blind spot areas of your vehicle on the instrument cluster when the turn signal is turned on to help with safe lane changes.

Detecting sensor



[A] Wide-side view camera (camera located at bottom of the mirror)

[B] Wide-side view camera (camera located at bottom of the mirror)

Refer to the picture above for the detailed location of the detecting sensors.

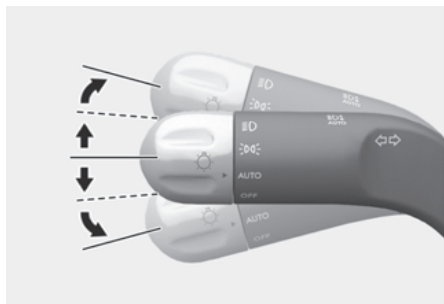
Blind-Spot View Monitor Settings

Setting features

Blind-Spot View

With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Safety > Blind-Spot View Monitor** from the Settings menu to turn on Blind-Spot View Monitor and deselect to turn off the function.

Blind-Spot View Monitor Operation



Blind-Spot View Monitor will turn on and off when the turn signal is turned on and off.

Operating conditions

When the left or right side turn signal turns on, the image in that direction is displayed on the instrument cluster.

Off conditions

- When the turn signal turns off, the image on the instrument cluster will turn off.
- When the hazard warning flasher is on, Blind-Spot View Monitor will turn off, regardless of the turn signal status.
- When other important warning is displayed on the instrument cluster, Blind-Spot View Monitor may turn off.

Blind-Spot View Monitor Malfunction

When Blind-Spot View Monitor is not working properly, or the instrument cluster display flickers, or the camera image does not display properly, have the vehicle inspected by an authorized HYUNDAI dealer.

! WARNING

- The image shown on the cluster may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Blind- Spot View Monitor may not operate properly.

Smart Cruise Control (SCC)

Smart Cruise Control detects a vehicle ahead and helps maintain the distance from the vehicle ahead and the set speed.

Overtaking Acceleration Assist

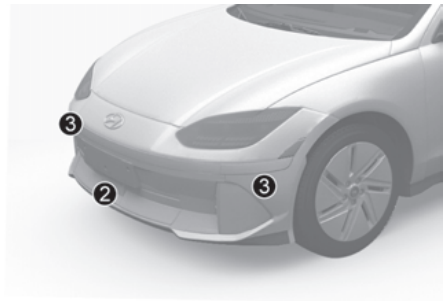
When Smart Cruise Control judges you are attempting to overtake a vehicle in front, Smart Cruise Control help with accelerating.

Based on Driving Style

 if equipped

Smart Cruise Control operates based on your driving style, such as vehicle distance, acceleration, and reaction speed.

Detecting sensor



- (1) Front view camera,
- (2) Front radar,
- (3) Front corner radar (if equipped)

The front view camera and front radar are used as a detecting sensor to detect front vehicles.

Refer to the picture above for the detailed location of the detecting sensor.

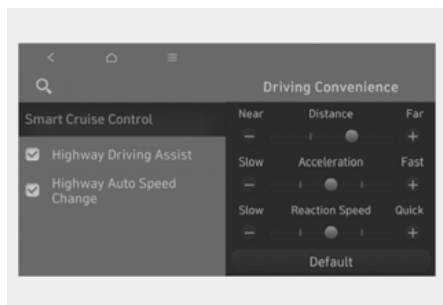
CAUTION

Always keep the front view camera and front radar in good condition to maintain optimal performance of Smart Cruise Control.

For more information on the precautions of the front view camera and front radar, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Smart Cruise Control Settings

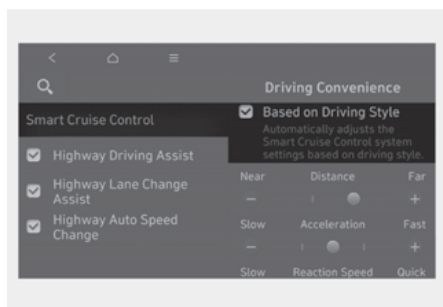
Smart Cruise Control



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Convenience > Smart Cruise Control** from the settings menu to change Distance, Acceleration and Reaction Speed manually.

Based on Driving Style

(+) if equipped

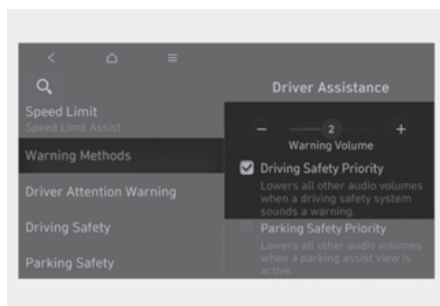


With the vehicle on, if **Setup > Vehicle > Driver Assistance > Driving Convenience > Smart Cruise Control > Based on Driving Style** is selected from the Settings menu, Smart Cruise Control will operate based on the driver's driving style, such as vehicle distance, acceleration, reaction speed.

i Information

- While Smart cruise control is operating with **Based on Driving Style** selected, if you press and hold the Vehicle Distance (🚗) button, **Based on Driving Style** will deactivate. If you press and hold the Vehicle Distance (🚗) button again, **Based on Driving Style** will activate.
- Based on driving style setting continuously learns when the driver drives the vehicle.
- When Based on driving style is deactivated, the driver's driving style such as vehicle distance, acceleration, reaction speed will maintain in the same stage.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

- If the vehicle is restarted, Warning Volume will maintain the last setting.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Smart Cruise Control Operation

Operating conditions

Basic function

Smart Cruise Control operates when the following conditions are satisfied.

- The gear is in D (Drive)
- The driver's door is closed
- EPB (Electronic Parking Brake) is not applied
- Your vehicle speed is within the operating speed range
 - 10-180 km/h (5-110 mph): when there is no vehicle in front
 - 0-180 km/h (0-110 mph): when there is a vehicle in front
- ESC (Electronic Stability Control) or ABS (Anti-Lock Braking System) is on

Smart Cruise Control does not operate in the following conditions.

- The driver's door is opened
- Your vehicle is in power down mode (⏻)
- EPB (Electronic Parking Brake) is applied

- ESC (Electronic Stability Control) or ABS (Anti-Lock Braking System) is controlling the vehicle
- Forward Collision-Avoidance Assist brake control is operating
- Remote Smart Parking Assist brake control is operating (if equipped)

Information

When stopped behind another vehicle, the driver can turn on Smart Cruise Control while the brake pedal is depressed.

Operating conditions for Acceleration Assist

Overtaking Acceleration Assist operates when the turn signal indicator is turned on to the left while Smart Cruise Control is operating, and the following conditions are satisfied:

- Your vehicle speed is above 60 km/h (40 mph)
- A vehicle is detected in front of your vehicle

Overtaking Acceleration Assist does not operate in the following conditions.

- The hazard warning flasher is on
- Vehicle speed is reduced to maintain distance with the vehicle in front

WARNING

When the turn signal indicator is turned on to the left while there is a vehicle ahead, the vehicle may accelerate temporarily. Pay attention to the road conditions at all times.

Turning on Smart Cruise Control

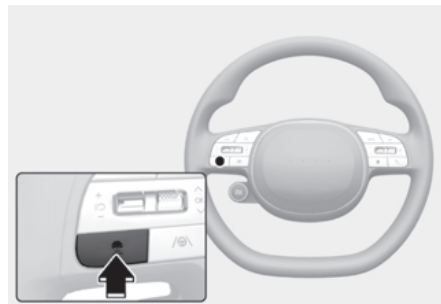


- Press the Driving Assist button to turn on Smart Cruise Control. The speed will be set to the current speed on the instrument cluster.
- If there is no vehicle in front of you, the set speed will be maintained, but if there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle ahead. If the vehicle ahead accelerates, your vehicle will travel at a steady cruising speed after accelerating to the set speed.

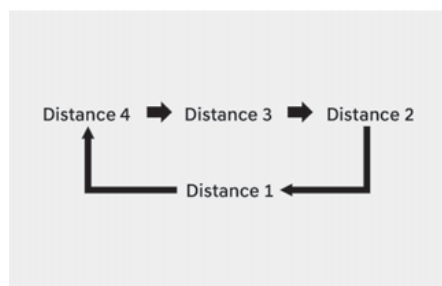
i Information

If your vehicle speed is between 0-30 km/h (0-20 mph) when you press the Driving Assist button, Smart Cruise Control speed will be set to 30 km/h (20 mph).

Setting vehicle distance



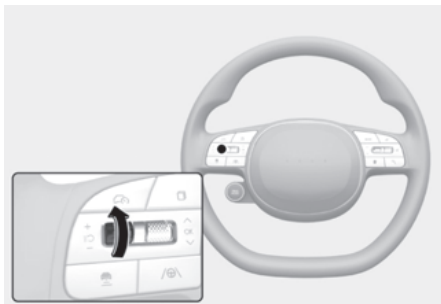
Each time the button is pressed, the headway changes as follows:



i Information

- If you drive at 90 km/h (56 mph), the distance is maintained as follows:
 - Distance 4 - about 53 m (172 ft.)
 - Distance 3 - about 40 m (130 ft.)
 - Distance 2 - about 30 m (106 ft.)
 - Distance 1 - about 25 m (82 ft.)
- The distance is set to the last set distance when the vehicle is restarted, or when Smart Cruise Control was temporarily canceled.

Increasing set speed

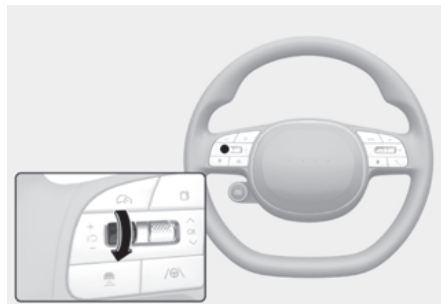


- Push the + switch up and release it immediately. The set speed will increase by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the + switch up and hold it while monitoring the set speed on the instrument cluster. The set speed will increase by 10 km/h (5 mph) each time the switch is operated in this manner. Release the switch when the desired speed is shown, and the vehicle will accelerate to that speed. You can increase the set speed to 180 km/h (110 mph).

WARNING

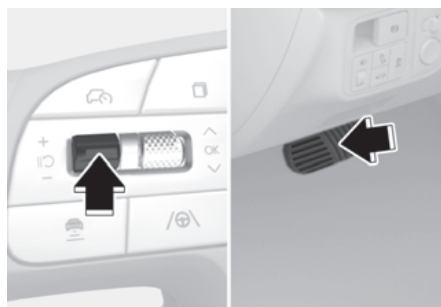
Check the driving condition before using the + switch. Driving speed may sharply increase when you push up and hold the + switch.

Decreasing set speed



- Push the - switch down and release it immediately. The set speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the - switch down and hold it while monitoring the set speed on the instrument cluster. The set speed will decrease by 10 km/h (5 mph) each time the switch is operated in this manner. Release the switch at the speed you want to maintain. You can decrease the set speed to 30 km/h (20 mph).

Temporarily canceling Smart Cruise Control



Press the ||| switch or depress the brake pedal to temporarily cancel Smart Cruise Control.

Resuming Smart Cruise Control



To resume Smart Cruise Control after the function was canceled, operate the +, - or SCC switch.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the instrument cluster.

If you press the SCC switch, vehicle speed will resume to the preset speed.

WARNING

Check the driving condition before using the SCC switch. Driving speed may sharply increase or decrease when you press the SCC switch.

Turning off Smart Cruise Control



Press the Driving Assist (DA) button to turn Smart Cruise Control off.

Information

If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist (DA) button to turn off Smart Cruise Control. However Manual Speed Limit Assist will turn on.

WARNING

Do not use the switches and buttons at the same time. Smart Cruise Control may not operate properly.

Display and Control

Basic function

You can see the status of the Smart Cruise Control operation in the Driving Assist view on the instrument cluster. For more information, refer to the "View Modes" section in chapter 4.

Smart Cruise Control will be displayed as below depending on the status of the function.

Operating



Temporarily canceled

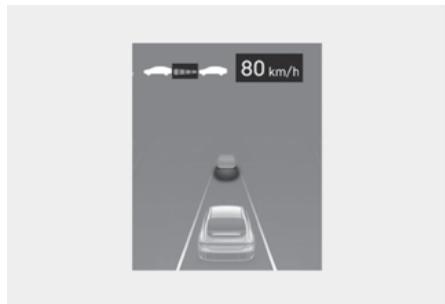


- When operating
 1. Whether there is a vehicle ahead and the selected distance level
 2. Set speed
 3. Whether there is a vehicle ahead and the target vehicle distance
- When temporarily canceled
 1. Your vehicle (grey)
 2. Previous set speed (grey)
 3. Vehicle ahead and distance level (grey) (if equipped)

i Information

- The distance of the front vehicle on the instrument cluster is displayed based on the actual distance between your vehicle and the vehicle ahead.
- The target distance may vary according to the vehicle speed and the set distance level. If the vehicle speed is low, even though the vehicle distance have changed, the change of the target vehicle distance may be small.
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

Accelerating temporarily



If you want to speed up temporarily without altering the set speed while Smart Cruise Control is operating, depress the accelerator pedal. While the accelerator pedal is depressed, the set speed, distance level and target distance will blink on the instrument cluster.

However, if the accelerator pedal is depressed insufficiently, the vehicle may decelerate.

WARNING

Be careful when accelerating temporarily, because the speed and distance is not controlled automatically even if there is a vehicle in front of you.

Based on Driving Style operation



When Based on driving style is operating, the vehicle distance level and target distance will be displayed white based on the driving style.

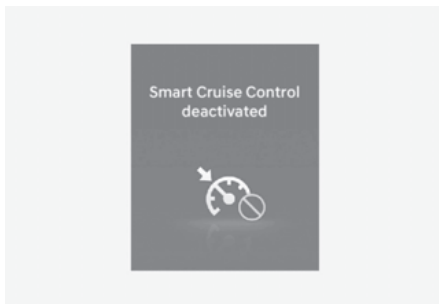
CAUTION

- The vehicle must be driven sufficiently to reflect the actual driver's driving style to the Based on Driving Style's vehicle distance, acceleration, and reaction speed.
- Based on Driving Style may not reflect driving styles or driving conditions that affect safe driving.
- If you are driving in special conditions, such as snow, rain, fog, or steep slopes, the vehicle may not be driven according to the driver's driving style.

Information

- Driving styles that are far from safe driving such as sudden acceleration may not be reflected to Based on Driving Style.
- Based on Driving Style does not reflect any other driving style other than vehicle distance, acceleration and reaction speed.

Temporarily canceling Smart Cruise Control



- The vehicle speed is above 190 km/h (120 mph)
- The vehicle is stopped for a certain period of time
- The accelerator pedal is continuously depressed for a certain period of time
- The conditions for the Smart Cruise Control to operate is not satisfied

If Smart Cruise Control is temporarily canceled automatically, the '**Smart Cruise Control deactivated**' warning message will appear on the instrument cluster, and an audible warning will sound to warn the driver.

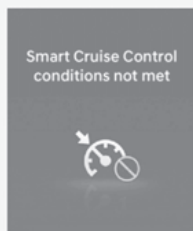
Information

If Smart Cruise Control is temporarily canceled while the vehicle is at a standstill with the function activated, EPB (Electronic Parking Brake) maybe applied.

WARNING

When Smart Cruise Control is temporarily canceled, distance with the front vehicle will not be maintained. Always have your eyes on the road while driving, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

Smart Cruise Control conditions not satisfied



If the Driving Assist button, + switch, - switch or  switch is operated when Smart Cruise Control operating conditions are not satisfied, the '**Smart Cruise Control conditions not met**' will appear on the instrument cluster, and an audible warning will sound.

In traffic situation



In traffic, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving, your vehicle will start as well. In addition, after the vehicle has stopped and a certain time have passed, the '**Use switch or pedal to accelerate**' message will appear on the instrument cluster. Depress the accelerator pedal or operate the + switch, - switch or  switch to start driving.

Warning road conditions ahead



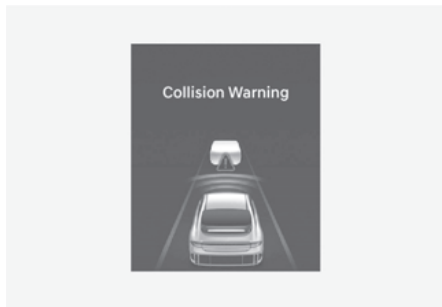
In the following situation, the '**Watch for surrounding vehicles**' warning message will appear on the instrument cluster, and an audible warning will sound to warn the driver of road conditions ahead.

- The vehicle in front disappears when Smart Cruise Control is maintaining the distance with the vehicle ahead while driving below a certain speed.

WARNING

Always pay attention to vehicles or objects that may suddenly appear in front of you, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

Collision Warning



While Smart Cruise Control is operating, when the collision risk with the vehicle ahead is high, the **'Collision Warning'** warning message will appear on the instrument cluster, and an audible warning will sound to warn the driver. Always have your eyes on the road while driving, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

WARNING

In the following situations, Smart Cruise Control may not warn the driver of a collision.

- The distance from the front vehicle is near, or the vehicle speed of the front vehicle is faster or similar with your vehicle
- The speed of the front vehicle is very slow or is at a standstill
- The accelerator pedal is depressed right after Smart Cruise Control is turned on

WARNING

Take the following precautions when using Smart Cruise Control:

- Smart Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always check the speed and distance to the vehicle ahead.
- Smart Cruise Control may not recognize unexpected and sudden situations or complex driving situations, so always pay attention to driving conditions and control your vehicle speed.
- Keep Smart Cruise Control off when the function is not in use to avoid inadvertently setting a speed.
- Do not open the door or leave the vehicle when Smart Cruise Control is operating, even if the vehicle is stopped.
- Always be aware of the selected speed and headway distance.
- Keep a safe distance according to road conditions and vehicle speed. If the headway distance is too close during high-speed driving, a serious collision may result.
- When maintaining distance with the vehicle ahead, if the front vehicle disappears, Smart Cruise Control may suddenly accelerate to the set speed. Always be aware of unexpected and sudden situations from occurring.
- Vehicle speed may decrease on an upward slope and increase on a downward slope.
- Always be aware of situations such as when a vehicle cuts in suddenly.
- When you are towing a trailer or another vehicle, turn off Smart Cruise Control for safety reasons.
- Turn off Smart Cruise Control when your vehicle is being towed.

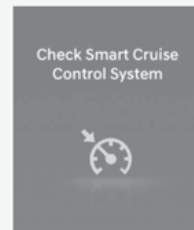
- Smart Cruise Control may not operate properly if interfered by strong electromagnetic waves.
- Smart Cruise Control may not detect an obstacle in front and lead to a collision. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- Vehicles moving in front of you with a frequent lane change may cause a delay in Smart Cruise Control reaction or may cause Smart Cruise Control to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of the surroundings and drive safely, even though a warning message does not appear or an audible warning does not sound.
- If any other system's warning message is displayed or warning sound is generated, Smart Cruise Control warning message may not be displayed and warning sound may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Always set the vehicle speed under the speed limit in your area.
- Vehicle distance, acceleration and reaction speed may change if the driver's driving style changes.

i Information

- Smart Cruise Control may not operate for 15 seconds after the vehicle is started or the front view camera or front radar is initialized.
- You may hear a sound when the brake is controlled by Smart Cruise Control.

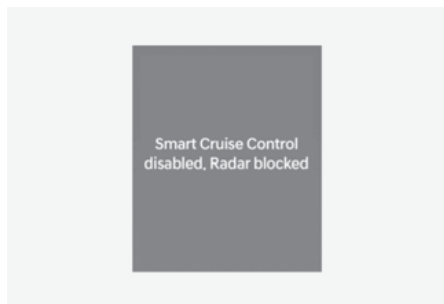
Smart Cruise Control Malfunction and Limitations

Smart Cruise Control malfunction



When Smart Cruise Control is not working properly, the '**Check Smart Cruise Control System**' warning message will appear, and the (△) warning light will illuminate on the instrument cluster. Have the vehicle inspected by an authorized HYUNDAI dealer.

Smart Cruise Control disabled



When the front radar cover or sensor is covered with snow, rain, or foreign material, it can reduce the detecting performance and temporarily limit or disable Smart Cruise Control.

If this occurs the '**Smart Cruise Control disabled. Radar blocked**' warning message will appear for a certain period of time on the instrument cluster.

Smart Cruise Control will operate properly when snow, rain or foreign material is removed.

WARNING

Even though the warning message does not appear on the instrument cluster, Smart Cruise Control may not properly operate.

CAUTION

Smart Cruise Control may not properly operate in an area (for example, open terrain), where there is nothing to detect after turning ON the vehicle.

Limitations of Smart Cruise Control

Smart Cruise Control may not operate properly, or it may operate unexpectedly under the following circumstances:

- The detecting sensor or the surroundings are contaminated or damaged
- Washer fluid is continuously sprayed, or the wiper is on
- 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
- The field of view of the front view camera is obstructed by sun glare
- Street light or light from an oncoming vehicle is reflected on the wet road surface, such as a puddle on the road
- The temperature around the front view camera is high or low
- An object is placed on the dashboard
- The surrounding is very bright
- The surrounding is very dark, such as in a 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
- Driving in heavy rain or snow, or thick fog
- Driving through steam, smoke or shadow
- Only part of the vehicle is detected

- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lights are not on or are not bright
- The rear of the front vehicle is small or does not look normal (for example, tilted, overturned, etc.)
- The front vehicle's ground clearance is low or high
- A vehicle suddenly cuts in front
- Your vehicle is being towed
- Driving through a tunnel or iron bridge
- Driving near areas containing metal substances, such as a construction zone, railroad, etc.
- An object reflecting off the front radar such as a guardrail, nearby vehicle, etc.
- The bumper around the front radar is impacted, damaged or the front radar is out of position
- The temperature around the front radar is high or low
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.)
- The vehicle in front is made of material that does not reflect on the front radar
- Driving near a highway interchange or tollbooth
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- Driving on a curved road
- The vehicle in front is detected late
- The vehicle in front is suddenly blocked by an obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- Driving in a parking lot
- Driving through a construction area, unpaved road, partial paved road, uneven road, speed bumps, etc.
- Driving on an incline road, curved road, etc.
- Driving through a roadside with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations while driving
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Driving through a narrow road where trees or grass are overgrown
- There is interference by electromagnetic waves, such as driving in an area with strong radio waves or electrical noise

- Driving on a curved road



On curves, Smart Cruise Control may not detect a vehicle in the same lane, and may accelerate to the set speed. Also, vehicle speed may rapidly decrease when the vehicle ahead is detected suddenly.

Select the appropriate set speed on curves and apply the brake pedal or accelerator pedal according to the road and driving conditions ahead.



Your vehicle speed can be reduced due to a vehicle in the adjacent lane.

Apply the accelerator pedal and select the appropriate set speed. Check to be sure that the road conditions permit safe operation of the Smart Cruise Control.

- Driving on an inclined road



During uphill or downhill driving, the Smart Cruise Control may not detect a moving vehicle in your lane, and cause your vehicle to accelerate to the set speed. Also, vehicle speed will rapidly decrease when the vehicle ahead is detected suddenly.

Select the appropriate set speed on inclines and apply the brake pedal or accelerator pedal according to the road and driving conditions ahead.

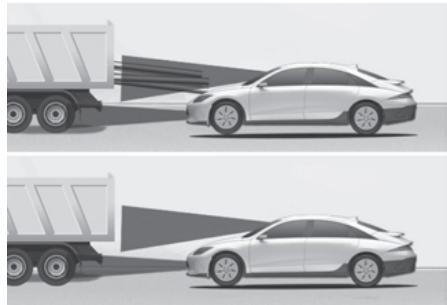
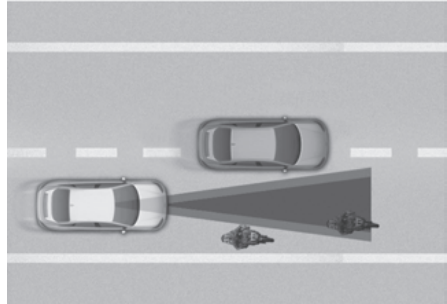
- Changing lanes



[A] Your vehicle
[B] Lane changing vehicle

When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Smart Cruise Control may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Situations when detecting are limited



In the following cases, some vehicles, pedestrians or animals in your lane cannot be detected by the sensor:

- Vehicles offset to one side
- Slow-moving vehicles or sudden decelerating vehicles
- Vehicles with higher ground clearance or vehicles carrying loads that stick out of the back of the vehicle
- Vehicles that has the front lifted due to heavy loads
- Vehicles within about 2 m (6 ft.) from your vehicle
- Oncoming vehicles
- Stopped vehicles
- Vehicles with small rear profile, such as trailers

- Narrow vehicles, such as motorcycles or bicycles
 - Special vehicles
 - Animals and pedestrians

Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.

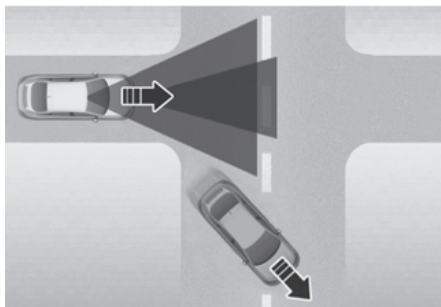
In the following cases, the vehicle in front cannot be detected by the sensor:

- You are steering your vehicle
- Driving on narrow or sharply curved roads

Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.

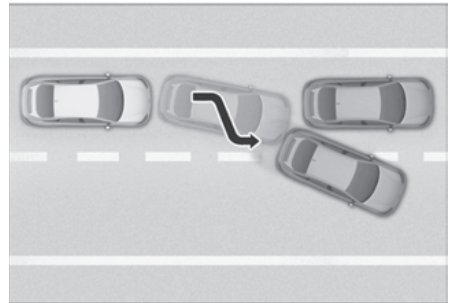
- When a vehicle ahead disappears at an intersection, your vehicle may accelerate.

Always pay attention to road and driving conditions while driving.

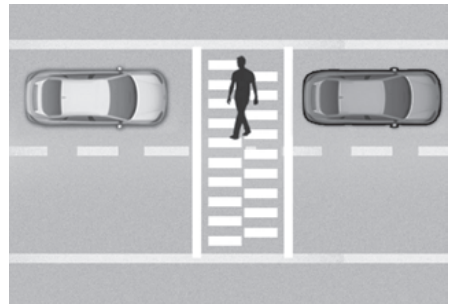


- When a vehicle in front of you merges out of the lane, Smart Cruise Control may not immediately detect the new vehicle that is now in front of you.

Always pay attention to road and driving conditions while driving.



- Always look out for pedestrians when your vehicle is maintaining a distance with the vehicle ahead.



i Information

This device complies with Industry Canada RSS-210 standard.

Operation is subject to the following three 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.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

i Information

Radio frequency radiation exposure information:

This equipment complies with RSS-210 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Navigation-Based Smart Cruise Control (NSCC)

Navigation-based Smart Cruise Control helps maintain safe speed depending on the road conditions by using information from the navigation system when driving on highways while Smart Cruise Control is operating.

i Information

- Navigation-based Smart Cruise Control is available only on controlled access road of certain highways.
 - Controlled access road indicates roads with limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.
- Additional highways may be expanded by future navigation updates.

Available Highway (Controlled access road)	
USA	Select Interstate Highway and U.S. (Federal) and State Highways
Canada	Select Provincial and Territorial Highways

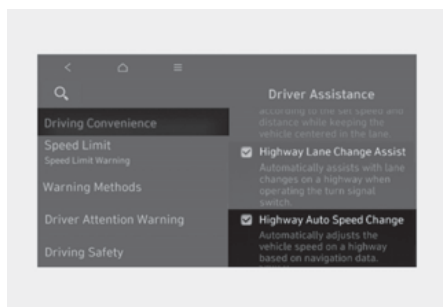
i Information

Navigation-based Smart Cruise Control operates on main roads of highways, and does not operate on interchanges or junctions.

Highway Curve Zone Auto Slowdown

If vehicle speed is high, Highway Curve Zone Auto Slowdown function will temporarily decelerate your vehicle or limit acceleration to help you drive safely on a curve based on the curve information from the navigation.

Navigation-based Smart Cruise Control Settings



With the vehicle on, select **Setup > Vehicle > Driver Assistance > Driving Convenience > Highway Auto Speed Change** from the Settings menu to turn on Navigation-based Smart Cruise Control and deselect to turn off the function.

i Information

When there is a problem with Navigation-based Smart Cruise Control, the function cannot be set from the Settings menu.

Navigation-based Smart Cruise Control Operation

Operating conditions

Navigation-based Smart Cruise Control is ready to operate if all of the following conditions are satisfied:

- Select "**Highway Auto Speed Change**" from the infotainment system.
- Smart Cruise Control is operating
- Driving on main roads of highways

i Information

For more information on how to operate Smart Cruise Control, refer to the "Smart Cruise Control (SCC)" section in this chapter.

Navigation-based Smart Cruise Control display and control

When Navigation-based Smart Cruise Control operates, it will be displayed on the instrument cluster as follows:



Navigation-based Smart Cruise Control standby

If the operating conditions are satisfied, the green **NAV** indicator light illuminates.

Navigation-based Smart Cruise Control operating

While the speed is being controlled, the green **NAV** indicator light blinks.

Temporarily canceled or interrupted by the driver

If Navigation-based Smart Cruise Control cannot control the vehicle, such as when Smart Cruise Control is temporarily canceled or the navigation system is searching for a route, the gray **NAV** indicator light illuminates.

When the driver depresses the accelerator pedal, the white **NAV** indicator light blinks.

WARNING



'Drive carefully' warning message will appear in the following circumstances:

- Navigation-based Smart Cruise Control is not able to slow down your vehicle to a safe speed

Information

The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

Highway Curve Zone Auto Slowdown

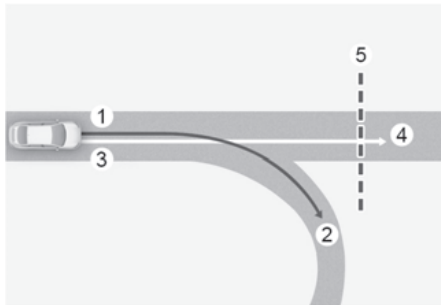
- Depending on the curve ahead on the highway, the vehicle will decelerate, and after passing the curve, the vehicle will accelerate to Smart Cruise Control set speed.
- Vehicle deceleration time may differ depending on the vehicle speed and the degree of the curve on the road. The higher the driving speed, deceleration will start faster.

Limitations of Navigation-based Smart Cruise Control

Navigation-based Smart Cruise Control may not operate properly under the following circumstances:

- The navigation is not working properly
- Map information is not transmitted due to infotainment system's abnormal operation
- Speed limit and road information in the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error
- The navigation searches for a route while driving
- GPS signals are blocked in areas such as a tunnel
- A road that divides into two or more roads and joins again
- The driver goes off course from the route set in the navigation
- The route to the destination is changed or cancelled by resetting the navigation
- The vehicle enters a service station or rest area
- Android Auto or Car Play is operating

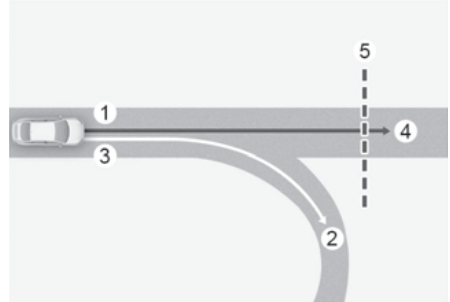
- The navigation cannot detect the current vehicle position (for example, elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)
- The navigation is being updated while driving
- The navigation is being restarted while driving
- The speed limit of some sections changes according to the road situations
- Driving on a road under construction
- Driving in lane-restricted driving situations
- There is bad weather, such as heavy rain, heavy snow, etc.
- Driving on a road that is sharply curved



- (1) Set route,
- (2) Branch line,
- (3) Driving route,
- (4) Main road,
- (5) Curved road section

- When there is a difference between the navigation set route (branch line) and the driving route (main road), Highway Curve Zone Auto Slowdown function may not operate until the driving route is recognized as the main road.

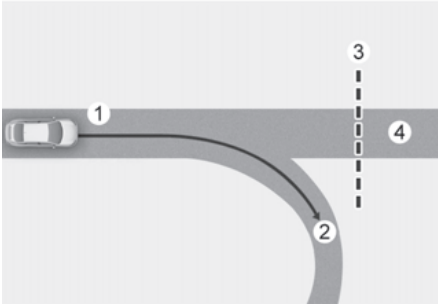
- When the vehicle's driving route is recognized as the main road by maintaining the main road instead of the navigation set route, Highway Curve Zone Auto Slowdown function will operate. Depending on the distance to the curve and the current vehicle speed, vehicle deceleration may not be sufficient or may decelerate rapidly.



- (1) Set route,
- (2) Branch line,
- (3) Driving route,
- (4) Main road,
- (5) Curved road section

- When there is a difference between the navigation route (main road) and the driving route (branch line), Highway Curve Zone Auto Slowdown function will operate based on the curve information on the main road.

- When it is judged that you are driving out of the route by entering the highway interchange or junction, Highway Curve Zone Auto Slowdown function will not operate.



- (1) Driving route,
 - (2) Branch line,
 - (3) Curved road section,
 - (4) Main road
- If there is no destination set on the navigation, Highway Curve Zone Auto Slowdown function will operate based on the curve information on the main road.
 - Even if you depart from the main road, Highway Curve Zone Auto Slowdown function may temporarily operate due to navigation information of the highway curve section.

WARNING

- Navigation-based Smart Cruise Control is not a substitute for safe driving practices, but a convenience function. Always have your eyes on the road, and it is the responsibility of the driver to avoid violating traffic laws.
- The navigation's speed limit information may differ from the actual speed limit information on the road. It is the driver's responsibility to check the speed limit on the actual driving road or lane.
- Navigation-based Smart Cruise Control will automatically be canceled when you leave the highway main road. Always pay attention to road and driving conditions while driving.
- Navigation-based Smart Cruise Control may not operate due to the existence of leading vehicles and the driving conditions of the vehicle. Always pay attention to road and driving conditions while driving.
- When you are towing a trailer or another vehicle, turn off Navigation-based Smart Cruise Control for safety reasons.
- After you pass through a tollbooth on a highway, Navigation-based Smart Cruise Control will operate based on the first lane. If you enter one of the other lanes, Navigation-based Smart Cruise Control might not operate properly.
- The vehicle will accelerate if the driver depresses the accelerator pedal while Navigation-based Smart Cruise Control is operating, and the function will not decelerate the vehicle. However, if the accelerator pedal is depressed insufficiently, the vehicle may decelerate.
- If the driver accelerates and releases the accelerator pedal while Navigation-based Smart Cruise Control is operating, the vehicle may not decelerate sufficiently or may rapidly decelerate to a safe speed.
- If the curve is too large or too small, Navigation-based Smart Cruise Control may not operate.

i Information

- A time gap could occur between the navigation's guidance and when Navigation-based Smart Cruise Control operation starts and ends.
 - The speed information on the instrument cluster and navigation may differ.
 - Even if you are driving at a speed lower than Smart Cruise Control set speed, acceleration may be limited by the curve sections ahead.
 - If Navigation-based Smart Cruise Control is operating while leaving the main road to enter an interchange, junction, rest area, etc., the function may operate for a certain period of time.
 - Deceleration by Navigation-based Smart Cruise Control may feel it is not sufficient due to road conditions such as uneven road surfaces, narrow lanes, etc.
-

i Information

This device complies with Industry Canada RSS-210 standard.

Operation is subject to the following three 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.
 3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
-

i Information

Radio frequency radiation exposure information:

This equipment complies with RSS-210 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Lane Following Assist (LFA)

Lane Following Assist detects lane markings and/or a vehicle ahead on the road, and center your vehicle in the lane.

Detecting sensor



(1) Front view camera

The front view camera is used as a detecting sensor to detect lane markings and front vehicles.

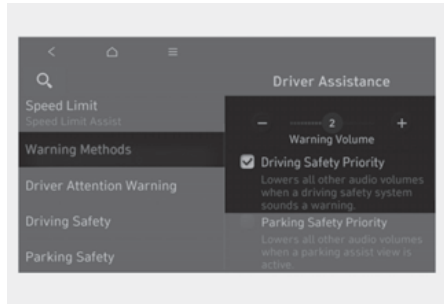
Refer to the picture above for the detailed location of the detecting sensor.

CAUTION

For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Lane Following Assist Settings

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though 0 is selected for Warning Volume, the Hands-off warning volume will not be turned off but warning volume will sound as 1.

Lane Following Assist Operation

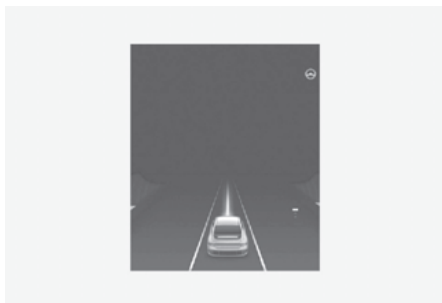
Turning Lane Following Assist On/Off



With the vehicle on, short press the Lane Driving Assist button located on the steering wheel to turn on Lane Following Assist. The grey or green (🚗) indicator light will illuminate on the instrument cluster.

Press the button again to turn off the function.

Lane Following Assist



If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 180 km/h (110 mph), the green (🚗) indicator light illuminates on the instrument cluster, and Lane Following Assist helps center the vehicle in the lane by assisting the steering wheel.

⚠ CAUTION

When the steering wheel is not assisted, the white (🚗) indicator light blinks and changes to grey.

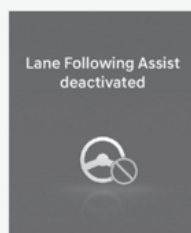
Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the **'Keep hands on steering wheel'** warning message will appear and an audible warning will sound in stages.

First stage: Warning message

Second stage: Warning message (red steering wheel) and audible warning



If the driver still does not have their hands on the steering wheel after the hands-off warning, the **'Lane Following Assist deactivated'** warning message will appear and Lane Following Assist will be automatically canceled.

WARNING

- The steering wheel may not be assisted if the steering wheel is held very tight or the steering wheel is steered over a certain degree.
- Lane Following Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.
- The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel while driving.
- If the steering wheel is held very lightly the hands-off warning message may appear because Lane Following Assist may not recognize that the driver has their hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

Information

- For more information on instrument cluster settings, refer to the "Cluster Display Control" section in chapter 4.
- When both lane markings are detected, the lane lines on the instrument cluster will change from grey to white.

Lane undetected



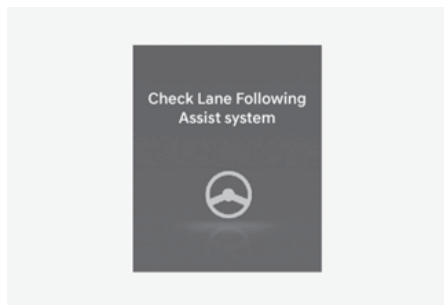
Lane detected



- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.
- If lane markings are not detected, steering wheel control by Lane Following Assist can be limited depending on whether a vehicle is in front or the driving conditions of the vehicle.
- Even though the steering is assisted by Lane Following Assist, the driver may control the steering wheel.
- The steering wheel may feel heavier or lighter when the steering wheel is assisted by Lane Following Assist than when it is not.

Lane Following Assist Malfunction and Limitations

Lane Following Assist malfunction



When Lane Following Assist is not working properly, the '**Check Lane Following Assist system**' warning message will appear on the instrument cluster for several seconds, and the master (▲) warning light illuminates on the instrument cluster. If this occur, have the vehicle inspected by an authorized HYUNDAI dealer.

Limitations of Lane Following Assist

For more information on Lane Following Assist's limitations, refer to the "Lane Keeping Assist (LKA)" section in this chapter.

i Information

For more information on "Warnings" when using Lane Following Assist, refer to the "Lane Keeping Assist (LKA)" section in this chapter.

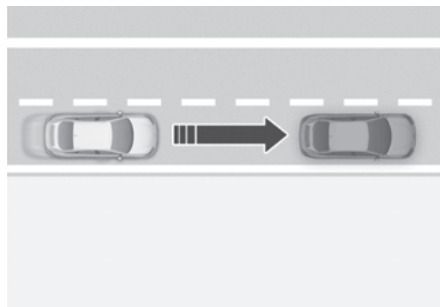
! WARNING

Loading freight exceeding the maximum load or placing freight unevenly may undermine driving safety. This may also prevent Lane Following Assist from operating properly.

Highway Driving Assist (HDA)

Basic function

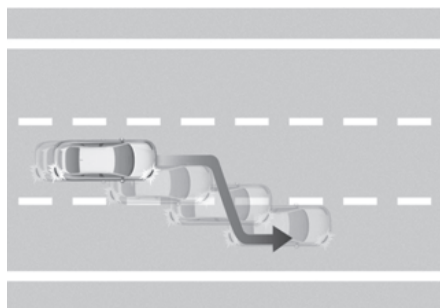
Highway Driving Assist detect lanes and vehicles ahead, and help maintain the distance from the vehicle ahead and the set speed, and center your vehicle in the lane while driving on the highway.



Highway Lane Change Assist

+ if equipped

Highway Lane Change Assist function helps change lanes to the direction you operate the turn signal switch if the function judges that lane change is possible.



i Information

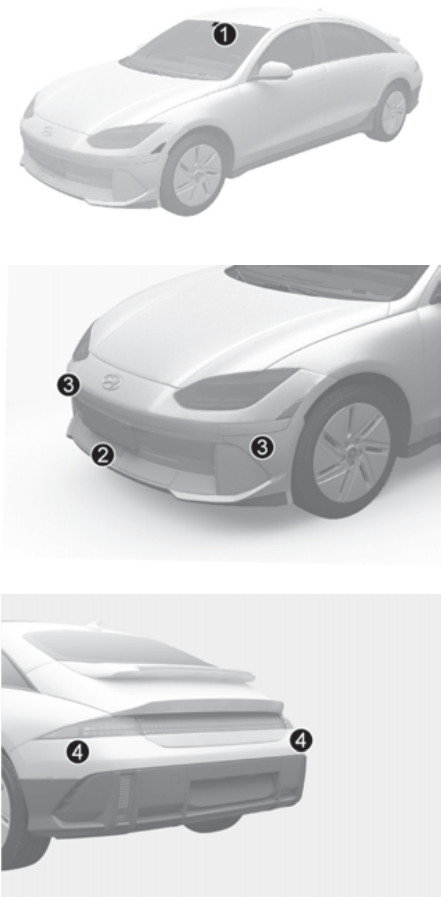
- Highway Driving Assist is available only on controlled access road of certain highways.
 - Controlled access road indicates roads with limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.
- Additional highways may be expanded by future navigation updates.

Available Highway (Controlled access road)	
USA	Select Interstate Highway and U.S. (Federal) and State Highways
Canada	Select Provincial and Territorial Highways

i Information

Highway Driving Assist operates on main roads of highways, and does not operate on interchanges or junctions.

Detecting sensor

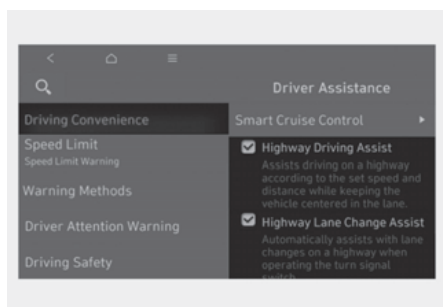


- (1) Front view camera,
 - (2) Front radar,
 - (3) Front corner radar (if equipped),
 - (4) Rear corner radar (if equipped)
- Refer to the picture above for the detailed location of the detecting sensors.

⚠ CAUTION

For more information on the precautions of the detecting sensors, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Highway Driving Assist Settings



With the vehicle on, select or deselect **Setup > Vehicle > Driver Assistance > Driving Convenience** from the Settings menu to set whether to use each function.

Basic function

If **Highway Driving Assist** is selected, it helps maintain distance from the vehicle ahead, maintain the set speed, and helps center the vehicle in the lane.

Highway Lane Change Assist

+ if equipped

If **Highway Lane Change Assist** is selected, it helps the driver change lanes.

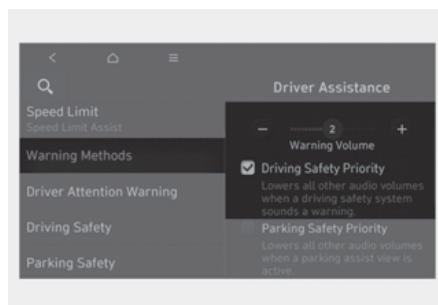
i Information

- When **Highway Driving Assist** is deselected, the setting for Highway Lane Change Assist cannot be changed.
- If there is a problem with the functions, the settings cannot be changed. Have the vehicle inspected by an authorized HYUNDAI dealer.
- If the vehicle is restarted, the functions will maintain the last setting.

⚠ WARNING

For your safety, only change the settings after parking the vehicle at a safe location.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- Warning Volume:** The Warning Volume can be adjusted.
- Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

i Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Highway Driving Assist Operation

Basic function

Displaying operating status

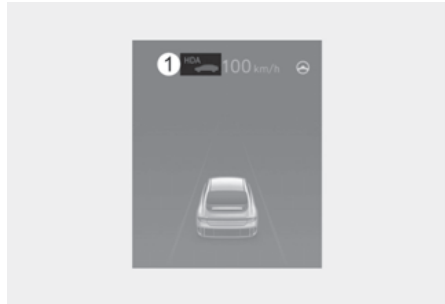
You can see the status of the Highway Driving Assist operation in the Driving Assist view on the instrument cluster. For more information, refer to the "View Modes" section in chapter 4.

Highway Driving Assist will be displayed as below depending on the status of the function.

Operating state



Standby state



1. Highway Driving Assist indicator, whether there is a vehicle ahead and the selected distance level are displayed.

- Highway Driving Assist indicator (HDA)
 - Green HDA: Operating state
 - Grey HDA: Standby state
 - White HDA blink: Accelerator depressed state

2. Set speed
3. Lane Following Assist indicator
4. Whether there is a vehicle ahead and the selected headway
5. Whether the lane is detected or not

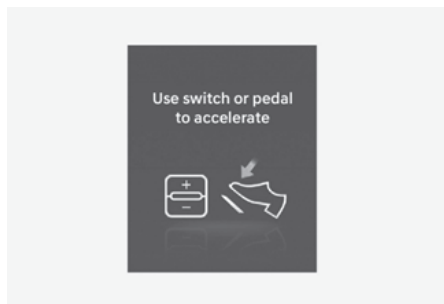
i Information

- For more information on the display refer to the "Smart Cruise Control (SCC)" and "Lane Following Assist (LFA)" sections in this chapter.
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the settings menu.

Highway Driving Assist operation

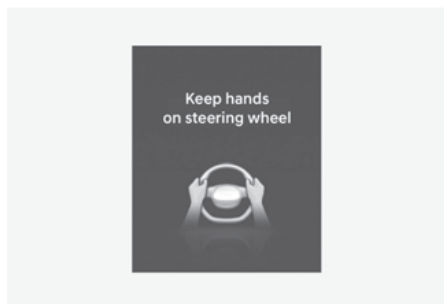
Highway Driving Assist operates when:

- Driving on the main road of highways, and turning on Highway Driving Assist by pressing the Driving Assist button
- Entering the main road of highways while Lane Following assist and Smart Cruise Control are operating



Restarting after stopping

When Highway Driving Assist is operating, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving within 30 seconds after the stop, your vehicle will start as well. In addition, after the vehicle has stopped and 30 seconds have passed, the '**Use switch or pedal to accelerate**' message will appear on the instrument cluster. Depress the accelerator pedal or operate the + switch, - switch or  switch to start driving.

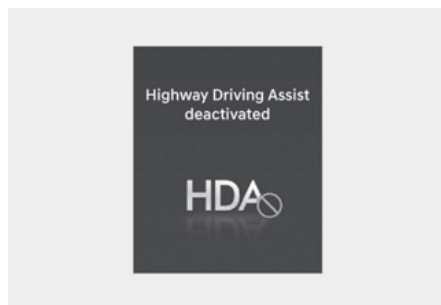


Hands-off warning

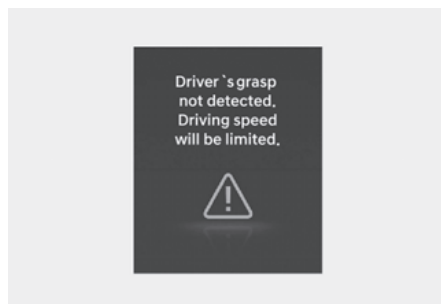
If the driver takes their hands off the steering wheel for several seconds, the '**Keep hands on steering wheel**' warning message will appear and an audible warning will sound in stages.

First stage: Warning message

Second stage: Warning message (red steering wheel) and audible warning



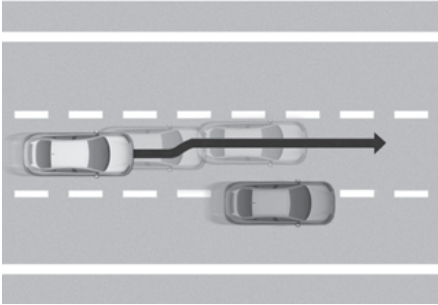
If the driver still does not have their hands on the steering wheel after the hands-off warning, '**Highway Driving Assist deactivated**' warning message will appear and Highway Driving Assist and Lane Change Assist will be automatically canceled.



Driving speed limit

When Highway Driving Assist is canceled by the hands-off warning, The driving speed will be limited.

While Driving Speed Limit function is operating, the **'Driver's grasp not detected. Driving speed will be limited'** warning message will appear on the instrument cluster, and an audible warning will sound continuously.



Driving to one side within lane

 If equipped

When vehicle speed is above 60 km/h (40 mph), if a vehicle around you is driving at a close distance, your vehicle will control steering in the opposite direction of the vehicle to assist in safe driving.

If there are detected vehicles on both sides of the lane that are driving close to you, your vehicle does not control steering in either direction.

Highway Driving Assist standby

When the Smart Cruise Control is temporarily canceled while Highway Driving Assist is operating, Highway Driving Assist will be in the standby state. At this time, Lane Following Assist will operate properly.

Information

- Driving Speed Limit helps you drive below 60 km/h (40 mph). At this time, the vehicle decelerates due to the vehicle ahead. After the vehicle has decelerated, it cannot automatically accelerate.
- Driving Speed Limit will cancel in the following circumstances:
 - When the driver grabs the steering wheel again
 - When the driver turns on Lane Following Assist by pressing the Lane Driving Assist button
 - When +, -, ||⊞ switch or  button is operated, or the accelerator pedal or the brake pedal is depressed

Highway Lane Change Assist

 If equipped

Displaying operating status

You can see the status of the Highway Lane Change Assist function operation in the Driving Assist view on the instrument cluster. For more information, refer to the "View Modes" section in chapter 4.

Highway Lane Change Assist function will be displayed as below depending on the status of the function.

Ready/Operating



Standby/Canceled



1. Highway Lane Change Assist indicator

- Green on : Ready state
- Green blink : Operating state
- Grey on : Standby state
- White blink : Canceled state (display only a certain time)

2. Lane line

The lane line is displayed same as the Highway Lane Change Assist indicator (1). However, if the function is on standby, it displays whether the lane line is detected.

3. Green arrow and shade

The green arrow is displayed when a certain amount of time has passed after the function has started operating, and until the lane change has completed.

4. Message

- Message is displayed when the function does not operate even though the turn signal is used.
- Message is displayed when the function is canceled while operating.

To turn on Highway Lane Change Assist

Highway Lane Change Assist function will turn on when the following conditions are satisfied.

- The Driving Assist button or Lane Driving Assist button is used to turn on Highway Driving Assist.

Highway Lane Change Assist ready to operate

While Highway Lane Change Assist function is on, the function will be ready to operate when all the following conditions are satisfied:

- Highway Driving Assist is operating
- Lane Following Assist is operating
- A vehicle in the rear area of your vehicle is detected more than once after the vehicle is turned on
- Your vehicle speed is above 60 km/h (40 mph)
- Hands-off warning is not displayed on the instrument cluster
- Hazard warning flasher is off

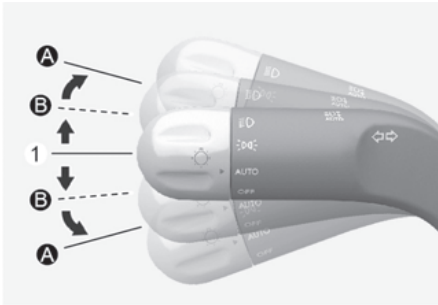
i Information

- While Lane Change Assist function is turned on (indicator on), Lane Following Assist will not cancel even if the turn signal indicator or hazard warning flasher is operating.
- Lane Change Assist function turns off automatically when driven in the following road conditions:
 - One driving lane
 - A road with no structure, such as a medium strip, guardrails, etc.
 - There is a pedestrian or cyclist on the road ahead
- When the function is in the ready state, and vehicle speed is below 55 km/h (35 mph), the function will change to the standby state.

⚠ WARNING

When Highway Lane Change Assist function turns off while operating, steering assist will be temporarily canceled. Always be cautious while driving.

Highway Lane Change Assist operation



(1) Center

Highway Lane Change Assist function will operate, when you push the turn signal lever up or down to the A or B position while the function is in the ready state (turn indicator is green), and all of the following conditions are satisfied:

- The driver has his/her hand on the steering wheel
- There is no collision risk in the direction of lane change
- There is a single dotted lane line in the direction of lane change
- There are no Forward Collision-Avoidance Assist and Blind Spot Collision-Avoidance Assist warnings
- The vehicle is driven in the middle of the lane (should not be driving close to one side of the lane)
- The road you are driving on, or the road you are about to change lane is a road that the function can operate

i Information

- Highway Lane Change Assist operates when the turn signal lever is positioned at A. If the turn signal lever is released to the center (1) before stepping on the lane, Highway Lane Change Assist cancels. If the turn signal lever is released to the center (1) after stepping on the lane, Highway Lane Change Assist changes the lane and turns off the turn signal after lane change is complete.
- When the turn signal lever is placed at B position for a certain period of time, the green arrow will appear. At this time, even when the lever is released and returns to its original position (1), lane change will still be assisted.
- While lane change is being made by the function, the turn signal indicator will blink even when the turn signal lever is not held, and the turn signal indicator will turn off when lane change is complete.

Highway Lane Change Assist standby

Highway Lane Change Assist function will be in the standby state when one of the ready state condition is not satisfied, or when entering or driving on one of the following roads:

- Road within a certain distance from the tollbooth on the main road of the highway
- The road ahead ends without an interchange or junction
- Road with sharp curves
- Road with narrow lanes

Highway Lane Change Assist cancel

The function will be canceled when:

- The turn signal lever is moved to the "A" position while the Highway Lane Change Assist function is operating and placed in the center (1) before stepping on the lane line
- The turn signal lever is turned on in the opposite direction of lane change
- The steering wheel is steered sharply

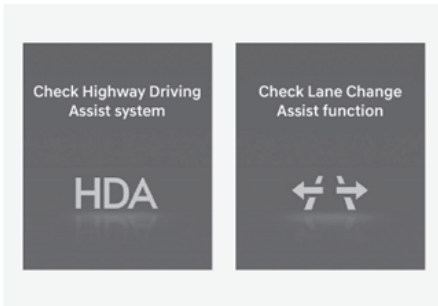
WARNING

- While Highway Driving Assist is operating, the function will cancel if one of the following occurs:
 - Highway Driving Assist is turned off
 - Lane Following Assist or Smart Cruise Control is turned off or temporarily canceled
 - Hands-off warning message is displayed on the instrument cluster
 - The hazard warning flasher is turned on
 - Forward Collision-Avoidance Assist or Blind-Spot Collision-Avoidance Assist warning message is displayed
 - Possible collision is detected in the next lane, even though there are no Forward Collision-Avoidance Assist and Blind-Spot Collision-Avoidance Assist warning
 - The target lane to make a lane change disappears
 - The target lane to make a lane change is not detected
 - There is a problem with turn signal lights
- Highway Lane Change Assist function is off (The function turns off when the function is turned off from the settings menu, when the road changes to a one-way road, when there is a intersection or crosswalk ahead, when you enter a road with no structure, such as a medium strip, guardrail, etc., or when there is a pedestrian or cyclist on the driving lane.)
- Your vehicle speed is below 55 km/h (35 mph)
- While the function is operating, when the function is canceled, depending on the driving conditions, the vehicle may drive to the middle of the driving lane or steering assist may stop. Always pay attention to road and driving conditions while driving.
- The function may not operate properly on roads with pedestrians or cyclists, such as an intersection or crosswalk. Always pay attention to road and driving conditions while driving.

Highway Driving Assist Malfunction and Limitations

Highway Driving Assist malfunction

Type A/Type B



When Highway Driving Assist or Highway Lane Change function is not working properly, the '**Check Highway Driving Assist system**' or '**Check Lane Change Assist function**' warning message will appear, and the ⚠ warning light will illuminate on the instrument cluster. Have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

- The driver is responsible for controlling the vehicle and safe driving.
- Always have your hands on the steering wheel while driving.
- Highway Driving Assist is a supplemental function that assists the driver in driving the vehicle and is not a complete autonomous driving system. Always check road conditions, and if necessary, take appropriate actions to drive safely.
- Always have your eyes on the road, and it is the responsibility of the driver to avoid violating traffic laws. The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Highway Driving Assist may not be able to recognize all traffic situations. Highway Driving Assist may not detect possible collisions due to limitations of the function. Always be aware of the limitations of the function. Obstacles such as vehicles, motorcycles, bicycles, pedestrians, or unspecified objects or structures such as guardrails, tollbooth, etc., that may collide with the vehicle may not be detected.
- Highway Driving Assist will turn off automatically under the following situations:
 - Driving on roads that Highway Driving Assist does not operate, such as a rest area, intersection, junction, etc.
 - The navigation does not operate properly such as when the navigation is being updated or restarted
- Highway Driving Assist may inadvertently operate or turn off depending on road conditions (navigation information) and surroundings.
- Lane Following Assist function may be temporarily disabled when the front view camera cannot detect lanes properly or the hands-off warning is on.
- You may not hear the warning sound of Highway Driving Assist if the surrounding is noisy.
- If the vehicle is driven at high speed above a certain speed at a curve, your vehicle may drive to one side or may depart from the driving lane.
- When you are towing a trailer or another vehicle, turn off Highway Driving Assist for safety reasons.

- The hands-off warning message may appear early or late depending on how the steering wheel is held or road conditions. Always have your hands on the steering wheel while driving.
- For your safety, please read the owner's manual before using the Highway Driving Assist.
- Highway Driving Assist will not operate when the vehicle is started, or when the detecting sensors or navigation is being initialized.

Limitation of Highway Driving Assist

Highway Driving Assist and Highway Lane Change function may not operate properly, or may not operate under the following circumstances:

- The map information and the actual road is different because the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error
- The infotainment system is overloaded by simultaneously performing functions such as route search, video playback, voice recognition, etc.
- GPS signals are blocked in areas such as a tunnel
- The driver goes off course or the route to the destination is changed or canceled by resetting the navigation
- The vehicle enters a service station or rest area
- Android Auto or Car Play is operating
- The navigation cannot detect the current vehicle position (for example, elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)
- White single dotted lane line or road edge cannot be detected
- The road is temporarily controlled due to construction, etc.

- There is no structure, such as a medium strip, guardrails, etc., on the road
- There is a changeable lane in the direction of lane change
- If a trailer, carrier, etc., is installed

i Information

For more information on the limitations of the front view camera, front radar, front corner radar and rear corner radar, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

i Information

This device complies with Industry Canada RSS-210 standard.

Operation is subject to the following three 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.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

i Information

Radio frequency radiation exposure information:

This equipment complies with RSS-210 radiation exposure limits set forth for an uncontrolled environment.

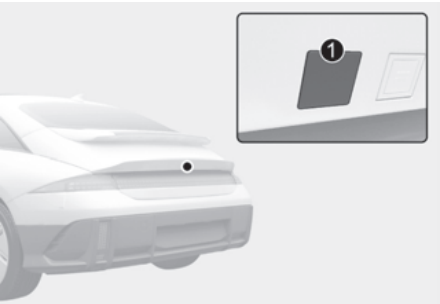
This equipment should be installed and operated with minimum distance of 20 cm (8 in.) between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Rear View Monitor (RVM)

Rear View Monitor displays the area behind your vehicle to help with safe parking or driving.

Detecting sensor

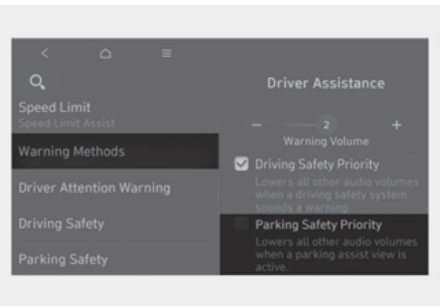


(1) Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensor.

Rear View Monitor Settings

Warning Methods



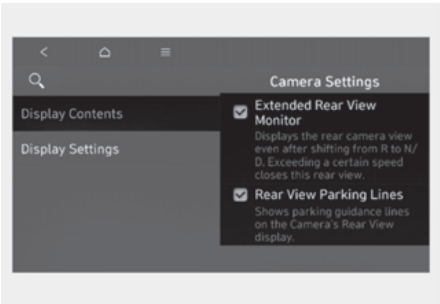
With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Parking Safety Priority:** Your vehicle lowers all other audio volumes when Rear View Monitor is operating.

i Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.

Camera settings



- You can change Rear View Monitor **Display Contents** by touching the setup icon (⚙️) on the screen while Rear View Monitor is operating, or selecting **Setup > Vehicle > Driver Assistance > Parking Safety > Camera Settings** from the Settings menu while the vehicle is on.
- In the **Display Contents**, you can change settings for **Extended Rear View Monitor** and **Rear View Parking Lines**.

i Information

There may be no Setting menu depending on the feature applied to your vehicle.

Extended Rear View Monitor

With the vehicle on, select **Camera Settings > Display Contents > Extended Rear View Monitor** from the Settings menu to turn on **Extended Rear View Monitor** function and deselect to turn off the function

Rear View Parking Lines

If **Rear View Parking Lines** is selected, the rear view parking guide lines and rear top view guide lines will be displayed at the left side of the infotainment system.

i Information

- The horizontal guideline of the Rear View Parking Guidance shows the distance of 0.5 m (20 in), 1 m (40 in) and 2.3 m (91 in) from the vehicle.
- The horizontal guideline of the Rear Top View Parking Guidance shows the distance 0.5 m (20 in) and 1.5 m (60 in) from the vehicle.

Rear View Monitor Operation

Parking/View button



Press the Parking/View button (1) while the gear is in P (Park) to turn on Rear View Monitor.

Press the Parking/View button (1) while the gear is in D (Drive) or N (Neutral) to turn on Rear View Monitor while driving.

Rear view



Operating conditions

- Shift the gear to R (Reverse), the rear view will appear on the screen.
- Press the Parking/View button (1) while the gear is in P (Park), the rear view will appear on the screen.
- Touch the (⏻), the rear view will appear on the screen.

Off conditions

- The rear view cannot be turned off when the gear is in R (Reverse).
- Press the Parking/View button (1) again while the gear is in P (Park) with the rear view on the screen, the rear view will turn off.
- Shift the gear from R (Reverse) to P (Park), the rear view will turn off.

i Information

When the gear is in R (Reverse), the rear view does not turn off.

Rear top view



When you touch the  icon, the top view is displayed on the screen and shows the distance from the vehicle in the back of your vehicle while parking.

Extended Rear View Monitor

Extended Rear View Monitor function maintains showing the rear view when the gear is R (Reverse), N (Neutral) or D (Drive).

Operating conditions

The gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.

Off conditions

- When vehicle speed is above 10 km/h (6 mph), the rear view will turn off.
- Shift the gear to P (Park), the rear view will turn off.
- Press the Parking/View button (1), the rear view will turn off.

Rear View Monitor Malfunction and Limitations

Rear View Monitor malfunction

When Rear View Monitor is not working properly, or the screen flickers, or the camera image does not display properly, have the vehicle inspected by an authorized HYUNDAI dealer.

WARNING

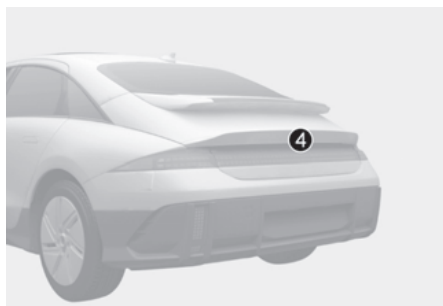
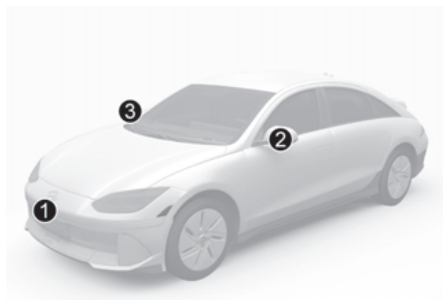
- The rear view camera does not cover the complete area behind the vehicle. The driver should always check the rear area directly through the inside rearview mirror and outer side view mirror before parking or backing up.
- The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Always keep the rear view camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Rear View Monitor may not operate properly. However, 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.

Surround View Monitor (SVM)

 if equipped

Surround View Monitor uses the wide view cameras and displays images around your vehicle through the infotainment system screen to help with safe parking or driving.

Detecting sensor

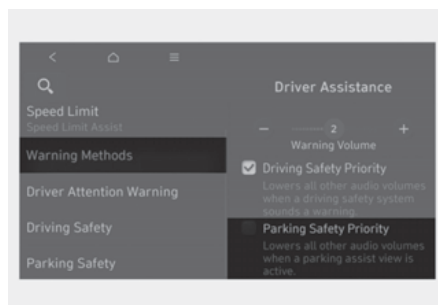


- (1) Wide-front view camera
- (2) Wide-side view camera (Below the side view mirror)
- (3) Wide-side view camera (Below the side view mirror)
- (4) Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensors.

Surround View Monitor Settings

Warning Methods



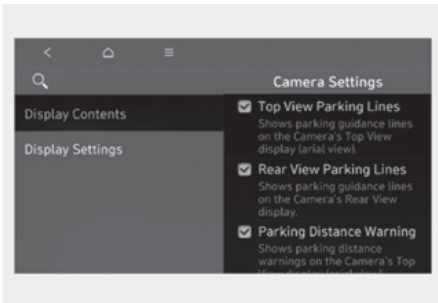
With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Parking Safety Priority:** Your vehicle lowers all other audio volumes when Surround View Monitor is operating.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.

Camera settings



- You can change Surround View Monitor **Display Contents** or **Display Settings** by touching the setup icon (⚙️) on the screen while Surround View Monitor is operating, or selecting **Setup > Vehicle > Parking Safety > Camera Settings** from the Settings menu while the vehicle is on.
- In the **Display Contents**, you can change settings for **Top View Parking Lines**, **Rear View Parking Lines** and **Parking Distance Warning**.

i Information

There may be no Setting menu depending on the feature applied to your vehicle.

Parking Distance Warning

When the **Parking Distance Warning** is selected, parking distance warning is displayed on the right side of the Surround View Monitor screen.

Top View Parking Guidance

When the **Top View Parking Lines** is selected, parking guidance is displayed on the right side of the Surround View Monitor screen.

i Information

The horizontal guideline of the Rear Top View Parking Guidance shows the trunk opening distance and the distance of 0.5 m (20 in) and 2 m (79 in) from the vehicle.

Rear View Parking Guidance

When the **Rear View Parking Lines** is selected, parking guidance is displayed in the rear view.

i Information

The horizontal guideline shows the distance of 0.5 m (20 in), 1 m (40 in) and 2.3 m (91 in) from the vehicle.

Surround View Monitor Auto On

With the vehicle on, select **Driver Assistance > Parking Safety > Surround View Monitor Auto On** from the Settings menu to use the function.

i Information

For more information on Surround View Monitor Auto On, refer to the "Surround View Monitor Operation" in this chapter.

Surround View Monitor Operation

Parking/View button



Press the Parking/View button (1) to turn on Surround View Monitor.

Press the button again to turn off the function.

Front view



The front image is displayed on the screen when the gear is in N (Neutral) or D (Drive) to assist in parking. Using the view button (2) you may select top view, front view and side view.

Operating conditions

- The gear is in N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.
- The Parking/View button (1) is pressed, while the gear is in N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.
- Surround View Monitor Auto On function will operate when the following conditions are satisfied:
 - With **Setup > Vehicle > Driver Assistance > Parking Safety > Surround View Monitor Auto On** selected from the Settings menu, the front view while parking is displayed.

Off conditions

- The Parking/View button (1) or the Infotainment system button (3) is Pressed.
- Vehicle speed is above 10 km/h (6 mph).
- The gear is shifted to P (Park).

i Information

Surround View Monitor will turn off when vehicle speed is above 10 km/h (6 mph). However, Surround View Monitor will not turn on again although vehicle speed drops below 10 km/h (6 mph).

Rear view

The rear image is displayed on the screen when the gear is in R (Reverse) or P (Park) to assist in parking. Using the view button (2) you may select top view, rear view and side view.

Operating conditions

- The gear is shifted to R (Reverse).
- The Parking/View button (1) is pressed, while the gear is in P (Park).

Off conditions

- The gear is shifted from R (Reverse) to P (Park).
- The Parking/View button (1) is pressed, while the gear is in P (Park).

i Information

When the gear is in R (Reverse), the rear view does not turn off even if the infotainment system button (3) is pressed.

3D view

The 3D view shows the image around the vehicle from various angles.

You can change angles by tapping the screen. Press the 3D View button again to return to the initial angle.

3D view will turn on when the 3D view is selected among the view buttons (2) under the following conditions:

- The gear is in P (Park), N (Neutral) or D (Drive) when vehicle speed is below 10 km/h (6 mph).
- The Surround View Monitor is turned on when the gear is in R (Reverse).

When the gear is in P (Park), N (Neutral) or D (Drive), 3D view will turn off under the following conditions:

- The gear is shifted to P (Park).
- The Parking/View button (1) is pressed.
- The infotainment system button (3) is pressed.
- The Home button (2) is pressed.
- Vehicle speed is above 10 km/h (6 mph).

When the gear is in R (reverse), 3D view will turn off under the following conditions.

- The gear is shifted to P (Park).

i Information

3D view does not display guidelines.

Surround View Monitor Malfunction and Limitations

Surround View Monitor malfunction

When Surround View Monitor is not working properly, or the screen flickers, or the camera image does not display properly, have the vehicle inspected by an authorized HYUNDAI dealer.

Limitations of Surround View Monitor

- The screen may be displayed abnormally, and an icon will appear at the top left side of the screen under the following circumstances:
 - The trunk is opened
 - The driver or front passenger door is opened
 - The side view mirror is folded

WARNING

- Always look around your vehicle to make sure there are no objects or obstacles before moving the vehicle. What you see on the screen may differ from the actual vehicle's location.
- The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Surround View Monitor is designed to be used on a flat surface.

Therefore, if used on roads with different heights such as curbs and speed bumps, the image in the screen may not look correct.

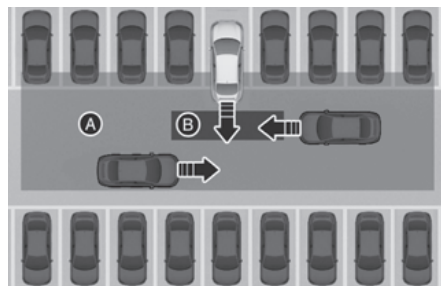
- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Surround View Monitor may not operate properly. However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone, etc.). This may damage the camera lens.

Information

Surround View Monitor uses the cameras installed on the vehicle to show images around the vehicle through the infotainment system. The image shown on the screen may look unnatural depending on the surroundings.

Rear Cross-Traffic Collision-Avoidance Assist (RCCA)

Rear Cross-Traffic Collision-Avoidance Assist detects vehicles approaching from the rear left or right while your vehicle is reversing and warns you of a possible collision with a warning message and a warning sound. Also, Rear Cross-Traffic Collision-Avoidance Assist may assist with braking your vehicle to help avoid a collision.



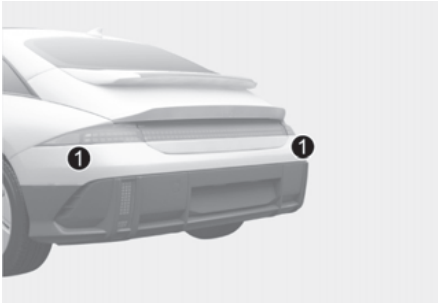
[A] Rear Cross-Traffic Collision Warning operating range,

[B] Rear Cross-Traffic Collision-Avoidance Assist operating range

CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

Detecting sensor



(1) Rear corner radar

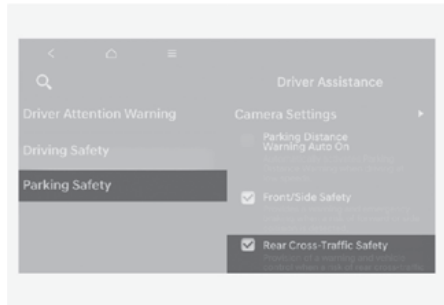
Refer to the picture above for the detailed location of the detecting sensors.

i Information

For more information on the precautions of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

Rear Cross-Traffic Collision-Avoidance Assist Settings

Rear Cross-Traffic Safety

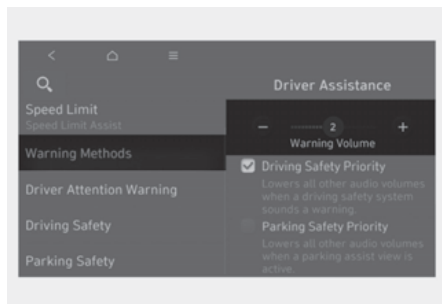


With the vehicle on, select **Setup > Vehicle > Parking Safety > Rear-Cross Traffic Safety** from the settings menu to turn on Rear Cross-Traffic Collision-Avoidance Assist and deselect to turn off the function.

WARNING

When the vehicle is restarted, Rear Cross-Traffic Collision-Avoidance Assist will always turn on. However, the driver should always be aware of the surroundings and drive safely especially if **Rear Cross-Traffic Safety** is deselected.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.

i Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Rear Cross-Traffic Collision-Avoidance Assist Operation

Rear Cross-Traffic Collision-Avoidance Assist will warn and help control the vehicle depending on collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

Collision Warning



- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the side view mirror will blink and a warning will appear on the instrument cluster. At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system.
- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:

- The gear is shifted to R (Reverse)
- Vehicle speed is below 8 km/h (5 mph)
- The approaching vehicle is within about 25 m (82 ft.) from the left and right side of your vehicle
- The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)

i Information

- If the operating conditions are satisfied, there will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from the instrument cluster.

Emergency Braking



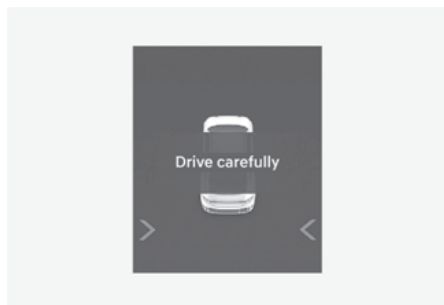
- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the side view mirror will blink and a warning message will appear on the instrument cluster. At the same time, an audible warning will sound. A warning will also appear on the infotainment system.
- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:
 - The gear is shifted to R (Reverse)
 - Vehicle speed is below 8 km/h (5 mph)
 - The approaching vehicle is within about 1.5 m (5 ft.) from the left and right side of your vehicle
 - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)
- Emergency braking will be assisted to help prevent collision with approaching vehicles from the left and right.

⚠ WARNING

Brake control will end when:

- The approaching vehicle is out of the detecting range
- The approaching vehicle passes behind your vehicle
- The approaching vehicle does not drive toward your vehicle
- The approaching vehicle speed slows down
- The driver depresses the brake pedal with sufficient power

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the '**Drive carefully**' warning message will appear on the instrument cluster.
- For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for about 2 seconds.
- During emergency braking, braking control by Rear Cross-Traffic Collision-Avoidance Assist will automatically cancel when the driver excessively depresses the brake pedal.

WARNING

Take the following precautions when using Rear Cross-Traffic Collision-Avoidance Assist:

- For your safety, only change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Rear Cross-Traffic Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.

- You may not hear the warning sound of Rear Cross-Traffic Collision-Avoidance Assist if the surrounding is noisy.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.
- During Rear Cross-Traffic Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Rear Cross-Traffic Collision-Avoidance Assist, the vehicle's basic braking will function normally.
- When Rear Cross-Traffic Collision-Avoidance Assist is operating, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- Rear Cross-Traffic Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- The driver has the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Rear Cross-Traffic Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.

CAUTION

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

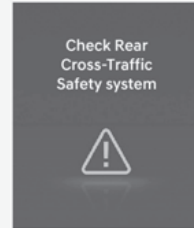
Information

If braking is assisted by Rear Cross-Traffic Collision-Avoidance Assist, the driver must immediately depress the brake pedal and check vehicle surroundings.

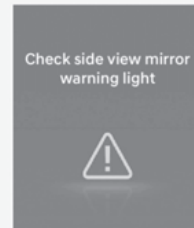
- Brake control will end when the driver depresses the brake pedal with sufficient power.
- After shifting the gear to R (Reverse), braking control will operate once for left and right vehicle approach.

Rear Cross-Traffic Collision-Avoidance Assist Malfunction and Limitations

Rear Cross-Traffic Collision-Avoidance Assist malfunction

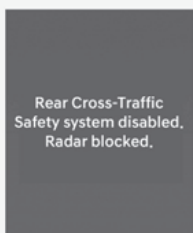


When Rear Cross-Traffic Collision-Avoidance Assist is not working properly, the '**Check Rear Cross-Traffic Safety system**' warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light will illuminate on the instrument cluster. If this occurs, have vehicle inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the '**Check side view mirror warning light**' warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light will illuminate on the instrument cluster. If this occurs, have the vehicle inspected by an authorized HYUNDAI dealer.

Rear Cross-Traffic Collision-Avoidance Assist disabled



When the rear bumper around the rear-side radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Rear Cross-Traffic Collision-Avoidance Assist. If this occurs, the '**Rear Cross-Traffic Safety system disabled. Radar blocked**' warning message will appear on the instrument cluster.

Rear Cross-Traffic Collision-Avoidance Assist will operate properly when such foreign material or trailer, etc., is removed.

If Rear Cross-Traffic Collision-Avoidance Assist does not operate properly after it is removed, have the vehicle inspected by an authorized HYUNDAI dealer.

⚠ WARNING

- Even though the warning message does not appear on the instrument cluster, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly in an area (for example, open terrain), where any objects are not detected after turning ON the vehicle.

⚠ CAUTION

Turn off Rear Cross-Traffic Collision-Avoidance Assist to install or remove a trailer, carrier, or another attachment. Turn on Rear Cross-Traffic Collision-Avoidance Assist when finished.

Limitations of Rear Cross-Traffic Collision-Avoidance Assist

Rear Cross-Traffic Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

Braking control may not work, driver's attention is required in the following circumstances:

- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged

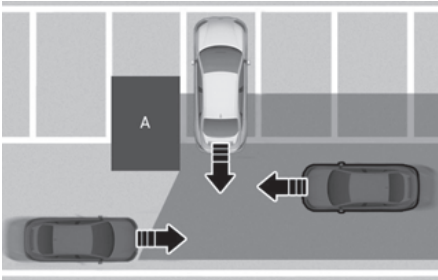
- The braking system has been modified
- Remote Smart Parking Assist is operating (if equipped)

i Information

For more information on the limitations of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

⚠ WARNING

- Driving near a vehicle or structure

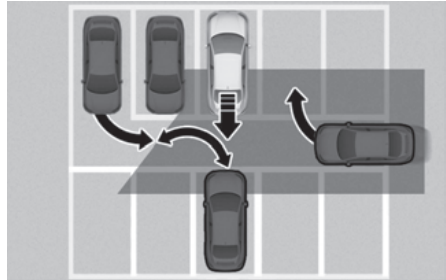


[A] Structure

Rear Cross-Traffic Collision-Avoidance Assist may be limited when driving near a vehicle or structure, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

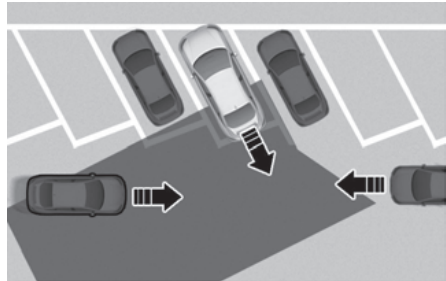
- When the vehicle is in a complex parking environment



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles which are parking or pulling out near your vehicle (for example, a vehicle leaving beside your vehicle, a vehicle parking or pulling out in the rear area, a vehicle approaching your vehicle making a turn, etc.). If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

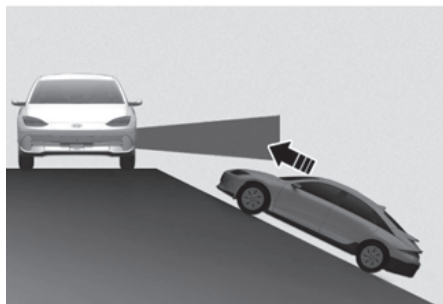
- When the vehicle is parked diagonally



Rear Cross-Traffic Collision-Avoidance Assist may be limited when backing up diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

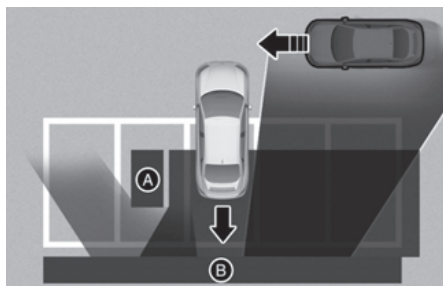
- When the vehicle is on or near a slope



Rear Cross-Traffic Collision-Avoidance Assist may be limited when the vehicle is on an uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

- Pulling into the parking space where there is a structure



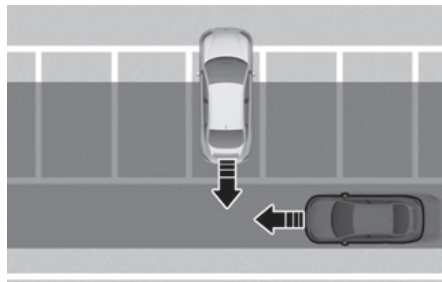
[A] Structure

[B] Wall

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by in front of you when parking in reverse into a parking space with a wall or structure in the rear or side area. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

- When the vehicle is parked rearward



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

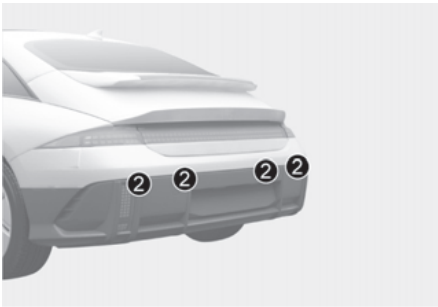
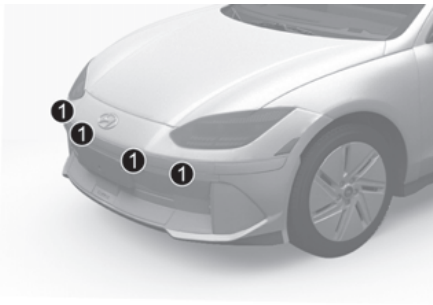
WARNING

- When you are towing a trailer or another vehicle, turn off Rear Cross-Traffic Collision-Avoidance Assist for safety reasons.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.

Forward/Reverse Parking Distance Warning (PDW)

Forward/Reverse Parking Distance Warning can help warn the driver if an obstacle is detected within a certain distance when the vehicle is moving forward or in reverse at low speeds.

Detecting sensor

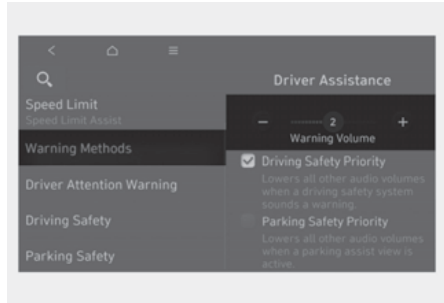


- (1) Front ultrasonic sensors,
(2) Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

Forward/Reverse Parking Distance Warning Settings

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.

i Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Parking Distance Warning Auto On

To use Parking Distance Warning Auto On function, select **Setup > Vehicle > Driver assistance > Parking safety > Parking Distance Warning Auto On** from the infotainment system settings menu.

i Information

When **Parking Distance Warning Auto On** is selected, the Parking Safety button indicator (P_{SA}) stays on.

Forward/Reverse Parking Distance Warning Operation

Parking Safety button



Press the Parking Safety (P_{SA}) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.

- When the gear is shift to R (Reverse), Parking Distance Warning will automatically turn on (Parking Safety button indicator on).

Forward Parking Distance Warning

Forward Parking Distance Warning will operate when one of the condition is satisfied.

- The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
- The gear is in D (Drive) and the Parking Safety button indicator light is on
- Shift to D (Drive) when the function is off (Only when **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** is selected from the infotainment system settings menu.)
- The gear is shifted to R (only front corner warning is on)

i Information

- Forward Parking Distance Warning will operate only when the vehicle's forward speed is below 10 km/h (6 mph).
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It will not reactivate although the vehicle speed drops below 10 km/h (6 mph).
- Only the front outer ultrasonic sensor will operate when the gear is in R (Reverse).

(Only when **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** is not selected from the infotainment system settings menu.)

Distance from Object	Warning Indicator	Warning Sound
60-100 cm (24-40 in.)		Buzzer beeps intermittently
30-60 cm (12-24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Reverse Parking Distance Warning

Reverse Parking Distance Warning will operate under the following conditions.

- The gear is shifted to R (Reverse).

i Information

Reverse Parking Distance Warning will operate when the vehicle's reverse speed is below 10 km/h (6 mph).

Distance from Object	Warning Indicator	Warning Sound
60-120 cm (24-48 in.)		Buzzer beeps intermittently
30-60 cm (12-24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

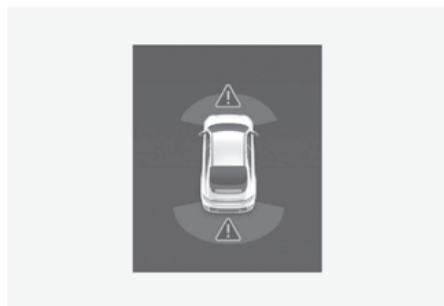
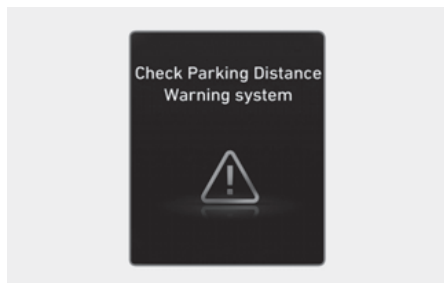
Forward/Reverse Parking Distance Warning Malfunction and Limitations

Parking Distance Warning malfunction

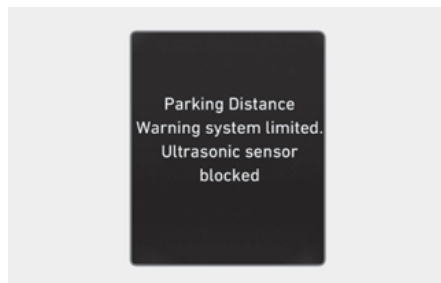
After starting the vehicle, a beep will sound when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, have the vehicle inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The '**Check Parking Distance Warning system**' warning message appears on the instrument cluster.



Parking Distance Warning disabled



If this occurs the '**Parking Distance Warning system limited. Ultrasonic sensor blocked**' warning message appears on the instrument cluster. Parking Distance Warning will operate properly when snow, rain or foreign material is removed.

If Parking Distance Warning does not operate properly after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), have the vehicle inspected by an authorized HYUNDAI dealer.

Limitations of Forward/Reverse Parking Distance Warning

- Parking Distance Warning may not operate properly when:
 - Moisture is frozen to the sensor
 - Sensor is covered with substance, such as snow or water (Forward/Reverse Parking Distance Warning will operate properly when such substance is removed.)
 - The weather is extremely hot or cold
 - The sensor 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

- Parking Distance Warning may malfunction when:
 - Heavy rain or water spray is present
 - Water flows on the surface of the sensor
 - Affected by another vehicle's sensors
 - The sensor is covered with snow or ice
 - Driving on uneven road, gravel roads or bushes
 - Objects that generate ultrasonic waves are near the sensor
 - License plate is installed in a different spot from the original location
 - The vehicle bumper height or ultrasonic sensor installation has been modified
 - Attaching equipment or accessories next to the ultrasonic sensors
- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - Narrow objects, such as corners of a square column
 - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
 - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
 - Pedestrians, animals or objects that are very close to the ultrasonic sensors

WARNING

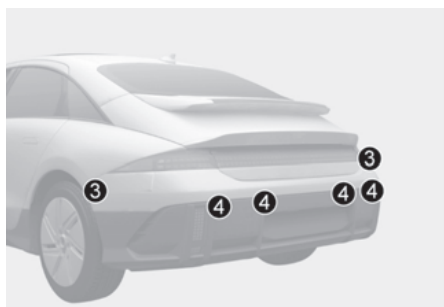
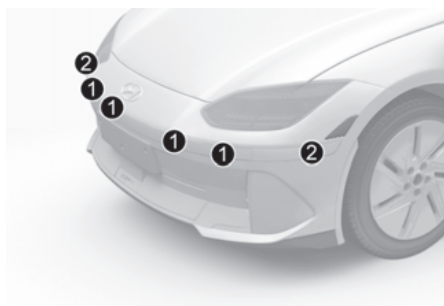
- Parking Distance Warning is a supplemental function. The operation of Parking Distance Warning can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and while parking.
 - Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Parking Distance Warning.
 - Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
 - Parking Distance Warning does not warn you in the order of detection. It varies depending on the speed of the vehicle or the shape of a person, animal, or object.
 - If the Parking Distance Warning does not operate properly, you have the vehicle inspected by an authorized HYUNDAI dealer.
-

Forward/Side/Reverse Parking Distance Warning (PDW)

 if equipped

Forward/Side/Reverse Parking Distance Warning uses the front, side, and rear ultrasonic sensors to detect and warns you if a person, animal, or object is within a certain distance when your vehicle is stopped or driving at low speed.

Detecting sensor

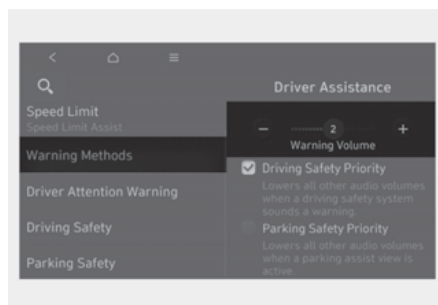


- (1) Front ultrasonic sensors
- (2) Front side ultrasonic sensors
- (3) Rear side ultrasonic sensors
- (4) Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

Parking Distance Warning Settings

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Parking Distance Warning Auto On

To use Parking Distance Warning Auto On function, select **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** from the infotainment system settings menu.

i Information

- When **Parking Distance Warning Auto On** is selected, the Parking Safety button indicator (P_{SA}) stays on.

Parking Distance Warning Operation

Parking Safety button



Press the Parking Safety (P_{SA}) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.

- When the gear is shift to R (Reverse), Parking Distance Warning will automatically turn on (Parking Safety button indicator on).

Forward Parking Distance Warning

Forward Parking Distance Warning will operate under the following conditions.

- The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
- The gear is in D (Drive) and the Parking Safety (P_{SA}) button indicator light is on
- Shift to D (Drive) when the function is off

(Only when **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** is selected from the infotainment system settings menu.)

- Shift to R (Reverse) (only front corner warning is on)

i Information

- Forward Parking Distance Warning will operate only when the vehicle's forward speed is below 10 km/h (6 mph).
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It will not reactivate although the vehicle speed drops below 10 km/h (6 mph).

(Only when **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** is not selected from the infotainment system settings menu.)

- Only the front outer ultrasonic sensor will operate when the gear is in R (Reverse).

Distance from Object	Warning Indicator	Warning Sound
60-100 cm (24-40 in.)		Buzzer beeps intermittently
30-60 cm (12-24 in.)		Beeps more frequently
30 cm (within 12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Side Parking Distance Warning

Side Parking Distance Warning will operate under the following conditions.

- The gear is shifted to R (Reverse).
- The gear is shifted from R (Reverse) to D (Drive).
- The gear is in D (Drive) and the Parking Safety (P) button indicator light is on
- Shift to D (Drive) when the function is off

(Only when **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** is selected from the infotainment system settings menu.)

i Information

- Side Parking Distance Warning will operate when the vehicle's forward speed is below 10 km/h (6 mph).
- Side Parking Distance Warning operated only when Forward or Rearward Parking Distance Warning is on.

Distance from Object	Warning Indicator	Warning Sound
60-100 cm (24-40 in.)		-
30-60 cm (12-24 in.)		-
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range.

- If an object located within (30 cm) 12 in. from the side of the vehicle's path is detected, an audible warning will sound.
 - If an object outside the side of the vehicle's path is detected, the warning indicator will be displayed.
 - The shape of the indicator in the illustration may differ from the actual vehicle.
- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
 - When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
 - The shape of the indicator in the illustration may differ from the actual vehicle.

Reverse Parking Distance Warning

Reverse Parking Distance Warning will operate under the following conditions.

- The gear is shifted to R (Reverse).

i Information

Distance from Object	Warning Indicator	Warning Sound
60-120 cm (24-48 in.) (Corner: (60-100 cm, 24-40 in.))		Buzzer beeps intermittently
30-60 cm (12-24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

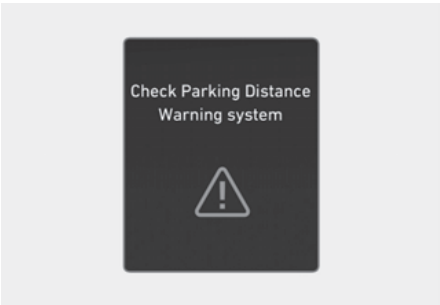
Parking Distance Warning Malfunction and Limitations

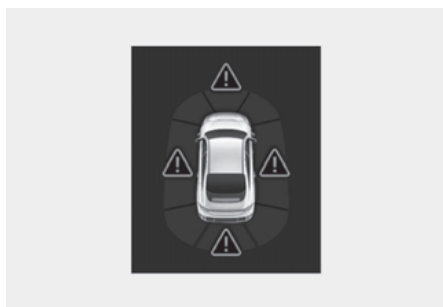
Parking Distance Warning malfunction

After starting the vehicle, a beep will sound when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

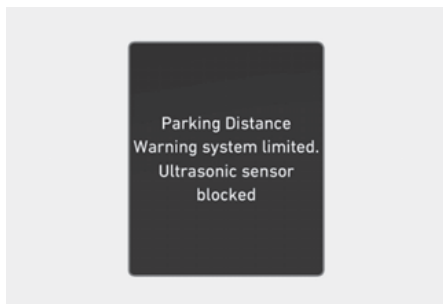
However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, have the vehicle inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The '**Check Parking Distance Warning system**' warning message appears on the instrument cluster.





Parking Distance Warning disabled



If this occurs the **'Parking Distance Warning system limited. Ultrasonic sensor blocked'** warning message appears on the instrument cluster. Parking Distance Warning will operate properly when snow, rain or foreign material is removed. If Parking Distance Warning does not operate properly after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), have the vehicle inspected by an authorized HYUNDAI dealer.

Limitations of Parking Distance Warning

- Parking Distance Warning may not operate properly when:
 - There is excessive moisture or frost on the sensor
 - Sensor is covered with foreign substance, such as snow or water (Parking Distance Warning will operate properly when such substance is removed.)
 - The weather is extremely hot or cold
 - The sensor 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
- Parking Distance Warning may malfunction when:
 - Heavy rain or water spray is present
 - Water flows on the surface of the sensor
 - Affected by another vehicle's sensors
 - The sensor is covered with snow or ice
 - Driving on uneven road, gravel roads or bushes
 - Objects that generate ultrasonic waves are near the sensor
 - License plate is installed in a different spot from the original location
 - The vehicle bumper height or ultrasonic sensor installation has been modified
 - Attaching equipment or accessories next to the ultrasonic sensors

- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - Narrow objects, such as corners of a square column
 - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
 - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
 - Pedestrians, animals or objects that are very close to the ultrasonic sensors
 - An object in the side space between the front corner ultrasonic sensor and the rear corner ultrasonic sensor or an object approaching the side space
 - Parking Distance Warning does not warn you in the order of detection. It varies depending on the speed of the vehicle or the shape of a person, animal, or object.
 - If the Parking Distance Warning does not operate properly, have the vehicle inspected by an authorized HYUNDAI dealer.
-



WARNING

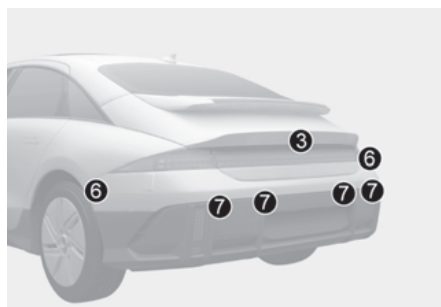
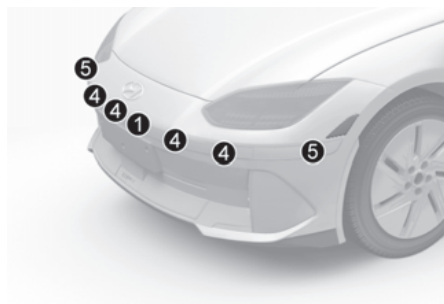
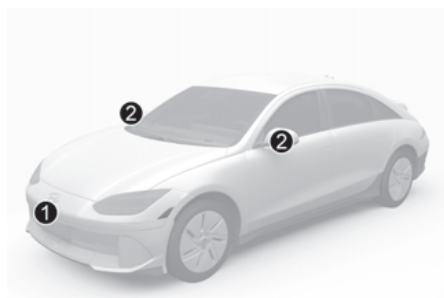
- Parking Distance Warning is a supplemental function. The operation of Parking Distance Warning can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and while parking.
- Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Parking Distance Warning.
- Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.

Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA)

 if equipped

Forward/Side/Reverse Parking Collision-Avoidance Assist detects pedestrians or objects and may warn you or assist you with braking to help avoid a collision while driving at low speed.

Detecting sensor



- (1) Wide-front view camera,
- (2) Wide-side view camera (below the side view mirror)
- (3) Wide-rear view camera,
- (4) Front ultrasonic sensors,
- (5) Front side ultrasonic sensors,
- (6) Rear side ultrasonic sensors,
- (7) Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

Parking Collision-Avoidance Assist Settings

Parking Safety

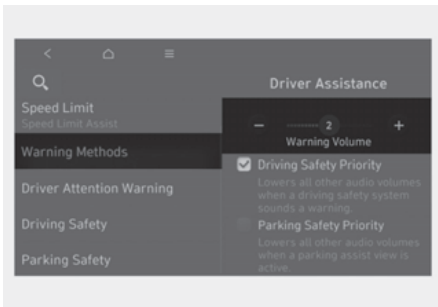
With the vehicle on, select or deselect **Setup > Vehicle > Driver Assistance > Parking Safety** from the Settings menu to set whether to use each function.

- If **Forward/Side Safety** is selected, Parking Collision-Avoidance Assist will warn the driver and assist with braking when a collision with a detected pedestrian or an object is imminent from the front or the side.
- If **Rear Safety** is selected, Parking Collision-Avoidance Assist will warn the driver and assist with braking when a collision with a detected pedestrian or an object is imminent from behind.

i Information

Forward/Side Safety can be selected only when **Rear Safety** is selected. If the vehicle is restarted, **Rear Safety** is selected and **Forward/Side safety** maintains the last setting.

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.

i Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Parking Collision-Avoidance Assist Operation



Turning Parking Collision Avoidance Assist On/Off

Press and hold the Parking Safety (**PWA**) button more than 2 seconds to turn the Parking Collision-Avoidance Assist on or off.

Operating conditions

If Parking Collision-Avoidance Assist detects a risk of collision behind the vehicle with a pedestrian or an object, Parking Collision-Avoidance Assist will warn the driver with an audible warning and warning message on the instrument cluster. If Surround View Monitor is operating, a warning will appear on the infotainment screen.

If collision is imminent, Parking Collision-Avoidance Assist will assist you with braking.

Select **Parking Safety > Rear Safety** from the settings menu.

Parking Collision-Avoidance Assist is enabled when the following conditions are satisfied:

Rear Safety

- The trunk and door are closed
- The Electronic Parking Brake (EPB) is released
- A trailer is not connected
- The gear is shifted to R (Reverse)
- Vehicle speed is below 10 km/h (6 mph) (detecting pedestrians)
- Vehicle speed is below 4 km/h (2.4 mph) (detecting objects)
- Parking Collision-Avoidance Assist components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

Front/Side Safety

- **Forward/Side Safety** is selected from the Parking Safety settings menu in the infotainment system.
- The trunk and door are closed
- The Electronic Parking Brake (EPB) is released
- A trailer is not connected
- The gear is shifted to R (Reverse) or D (Drive)
- Vehicle speed is below 4 km/h (2.4 mph) (for pedestrians, objects)
- Parking Collision-Avoidance Assist components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

When Parking Collision-Avoidance Assist activates, a line appears behind the vehicle image in the instrument cluster.

- **Rear Safety:** Behind the vehicle image
- **Front/Side Safety:** In front of vehicle image



i Information

Parking Collision-Avoidance Assist operates only once after shifting the gear to R (Reverse) or D (Drive). To reactivate Parking Collision-Avoidance Assist, shift the gear from another gear to R (Reverse) or D (Drive).

Off conditions

Front/Side Safety

Braking assist is released 2 seconds after shifting to D (Drive) and 5 minutes after shifting to R (Reverse). Immediately depress the brake pedal and check vehicle surroundings.

Braking assist is also released in the following conditions when:

- The gear is shifted to P (Park) or R (Reverse)
- The brake pedal is depressed with sufficient power

Rear Safety

Braking assist is released after 5 minutes. Immediately depress the brake pedal and check vehicle surroundings.

Braking assist is also released in the following conditions when:

- The gear is shifted to P (Park) or D (Drive)
- The brake pedal is depressed with sufficient power

i Information

When Parking Collision-Avoidance Assist is activated while reversing, braking control will be released after 5 minutes and the Electronic Parking Brake (EPB) will be engaged.

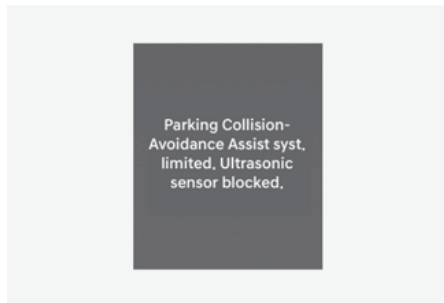
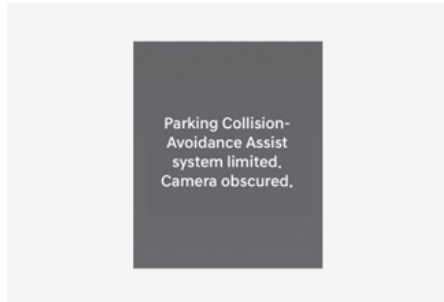
Parking Collision-Avoidance Assist Malfunction and Limitations

Parking Collision-Avoidance Assist malfunction



When Parking Collision-Avoidance Assist or other related functions are not working properly, the '**Check Parking Collision-Avoidance Assist system**' warning message will appear on the instrument cluster, and Parking Collision-Avoidance Assist will turn off automatically. Have the vehicle inspected by an authorized HYUNDAI dealer.

Parking Collision-Avoidance Assist disabled



The '**Parking Collision-Avoidance Assist system limited. Camera obscured**' or '**Parking Collision-Avoidance Assist system. limited. Ultrasonic sensor blocked**' warning message will appear on the instrument cluster if the following situations occur:

- The camera(s) or ultrasonic sensor(s) is covered with foreign material, such as snow or rain, etc.
- There is inclement weather, such as heavy snow, heavy rain, etc.

If this occurs, Parking Collision-Avoidance Assist may turn off or may not operate properly. Check whether the cameras and ultrasonic sensors are clean.

Limitations of Parking Collision-Avoidance Assist

Parking Collision-Avoidance Assist may not assist braking or warn the driver even if there are pedestrians or objects under the following circumstances:

- Problems with vehicle
 - Any non-factory equipment or accessory is installed
 - Your vehicle is unstable due to an accident or other causes
 - Bumper height or rear ultrasonic sensor installation has been modified
 - Wide view camera(s) or ultrasonic sensor(s) is damaged
 - Wide view camera(s) or the ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
 - Wide view camera(s) is obscured by a light source or by inclement weather, such as heavy rain, fog, snow, etc.
 - Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Problems with the surroundings
 - The surrounding is very bright or very dark
 - Outside temperature is very high or very low
 - The wind is either strong (above 20 km/h (12 mph)) or blowing perpendicular to the rear bumper
 - Objects generating excessive noise, such as vehicle horns, loud motorcycle vehicles or truck air brakes, are near your vehicle
 - An ultrasonic sensor with similar frequency is near your vehicle
 - The road is slippery or inclined
 - The image of the pedestrian in the front view camera is indistinguishable from the background
- Problems with pedestrian or object
 - The pedestrians are difficult to detect
 - There is ground height difference between the vehicle and the pedestrian
 - The pedestrian is near the rear edge of the vehicle
 - The pedestrian is not standing upright
 - The pedestrian is either very short or very tall to detect
 - The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
 - The pedestrian is wearing clothing that does not reflect ultrasonic waves well
 - Size, thickness, height, or shape of the object does not reflect ultrasonic waves well (for example, low object, narrow object, circular pillar, small pillar, corners of a square pillar, bushes, curbs, carts, edge of a wall, etc.)
 - The pedestrian or the object is moving
 - The pedestrian or the object is very close to the rear of the vehicle
 - There is a large object such as a wall is behind the pedestrian or the object
 - The object is not located at the front or rear center of your vehicle
 - The object is not parallel to the rear bumper
 - The sensors cannot detect the pedestrians and objects
- Problems with driving condition
 - The driver drives the vehicle immediately after shifting to R (Reverse) or D (Drive)
 - The driver accelerates or circles the vehicle

WARNING

Take the following precautions when using Parking Collision-Avoidance Assist:

- Always exercise extreme caution while driving. The driver is responsible for braking and safe driving.
 - Always pay attention to road and traffic conditions while driving, whether or not there is a warning.
 - Always look around your vehicle to make sure there are no pedestrians or objects before moving the vehicle.
 - The performance of Parking Collision-Avoidance Assist may vary under certain conditions. If vehicle speed is above 4 km/h (2 mph), Parking Collision-Avoidance Assist will provide collision avoidance assist only when pedestrians are detected. Always look around and pay attention when driving your vehicle.
 - Parking Collision-Avoidance Assist may operate differently under certain conditions. If the vehicle moves forward and backward repeatedly, Parking Collision-Avoidance Assist may fail to assist braking or to warn the driver. Always pay attention when driving your vehicle.
 - Some objects may not be detected by the rear ultrasonic sensors due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
 - Parking Collision-Avoidance Assist may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.
 - Do not solely rely on Parking Collision-Avoidance Assist. Doing so may lead to vehicle damage or injuries.
-

CAUTION

- Noise may be heard when sudden braking occurs to avoid a collision.
 - If any other warning sound such as the seat belt warning chime is already generated, Parking Collision-Avoidance Assist warning may not sound.
 - Parking Collision-Avoidance Assist may not work properly if the bumper has been damaged, replaced or repaired.
 - Parking Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
 - Playing the vehicle audio system at high volume may prevent passengers from hearing Parking Collision-Avoidance Assist warning sounds.
 - Turn off Parking Collision-Avoidance Assist when towing a trailer. If towing and moving in reverse, Parking Collision-Avoidance Assist will activate as it detects the trailer.
 - The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).
There will only be a warning when:
 - The ESC (Electronic Stability Control) warning light is on
 - ESC (Electronic Stability Control) is engaged in a different function
-

CAUTION

Take the following precautions to maintain optimal performance of the detecting sensors:

- Always keep the wide view cameras and ultrasonic sensors clean.
- Do not use any cleanser containing acid or alkaline detergents when cleaning the camera lens. Use only a mild soap or neutral detergent, and rinse thoroughly with water.
- Do not spray the wide view cameras or the rear ultrasonic sensors or their surrounding area directly with a high pressure washer. It may cause the wide angle cameras or the ultrasonic sensors to malfunction.
- Do not apply objects, such as a bumper sticker or a bumper guard, near the wide angle cameras or ultrasonic sensors or apply paint to the bumper. Doing so may adversely affect the performance of Parking Collision-Avoidance Assist.
- Never disassemble or apply impact on the wide angle cameras or the ultrasonic sensors components.
- Do not apply unnecessary force on the wide view cameras or the ultrasonic sensors. Parking Collision-Avoidance Assist may not operate properly if the wide angle cameras or the ultrasonic sensor(s) is forcibly moved out of proper alignment. Have the vehicle inspected by an authorized HYUNDAI dealer.

Information

Parking Collision-Avoidance Assist can detect a pedestrian or an object when:

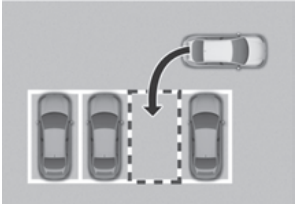
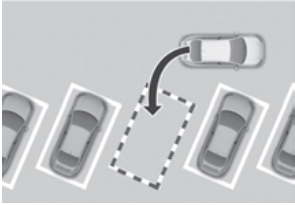
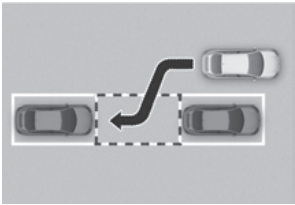
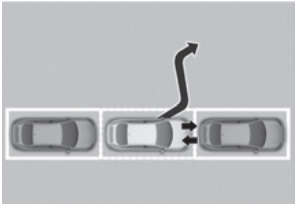
- A pedestrian is standing behind the vehicle
- A large obstacle, such as a vehicle is parked in the rear center of your vehicle

Remote Smart Parking Assist 2 (RSPA 2)

 if equipped

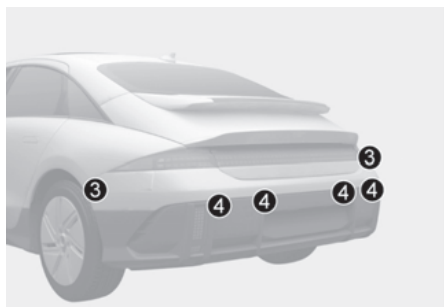
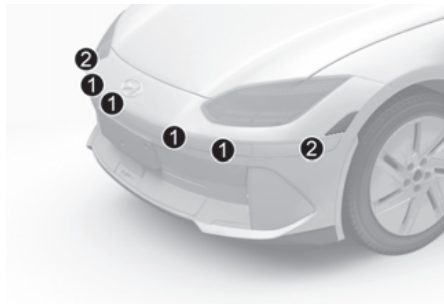
Remote Smart Parking Assist uses the front, front side, rear side, and rear ultrasonic sensors to detect parking spaces and control vehicle steering, speed, gear shifts, and help enter and exit parking spaces remotely from outside your vehicle.

Function	Description
Remote Operation	Remotely moving forward or backward 

Function	Description
Smart Parking or Remote Parking	Perpendicular reverse parking 
	Diagonal reverse parking 
	Parallel reverse parking 
Smart Exit	Parallel forward exit 

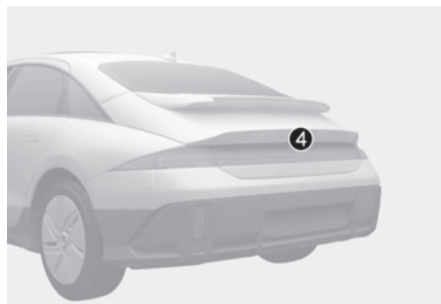
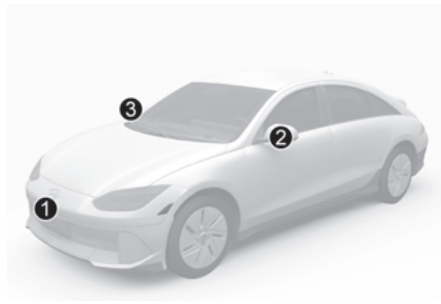
- Remote Smart Parking and Remote Operation function may be operated from outside the vehicle using the smart key.
- Smart Parking and Smart Exit function may be operated from inside the vehicle.
- Smart Parking and Remote Parking function helps the driver with perpendicular reverse parking, diagonal reverse parking and parallel reverse parking.
- Smart Exit function helps the driver with parallel forward exit.
- When Remote Smart Parking Assist operates, Parking Distance Warning and Surround View Monitor will also operate. For more information, refer to the "Forward/Side/Reverse Parking Distance Warning (PDW)" and "Surround View Monitor (SVM)" sections in this chapter.
- Remote Smart Parking Assist helps parking by recognizing the parking lines with the wide angle camera.

Detecting sensors



- (1) Front ultrasonic sensors
- (2) Front corner ultrasonic sensors
- (3) Rear corner ultrasonic sensors
- (4) Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.



- (1) Wide-front view camera
- (2) Wide-side view camera
- (3) Wide-side view camera
- (4) Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensors.

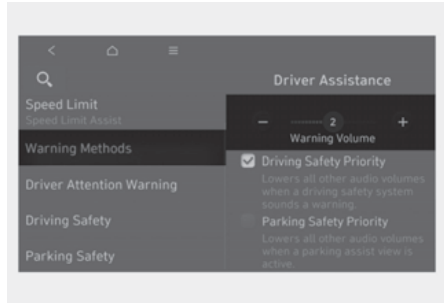
CAUTION

Take the following precautions to maintain optimal performance of the detecting sensors:

- Never disassemble the ultrasonic sensor or sensor assembly, or cause any damage to it.
- Remote Smart Parking Assist may malfunction if the vehicle bumper height or ultrasonic sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- When the ultrasonic sensor is frozen or stained with snow, dirt, or water, the sensor may not operate until the stains are removed using a soft cloth.
- Do not push, scratch, or strike the ultrasonic sensor. Sensor damage could occur.
- Do not spray the ultrasonic sensors or its surrounding area directly with a high pressure washer.
- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Remote Smart Parking Assist may not operate properly.
- Do not manually adjust the side view mirror or use Remote Smart Parking Assist after a hard impact on the side view mirror. When a collision occurs or the side view mirror is manually operated, Remote Smart Parking Assist may not operate properly.

Remote Smart Parking Assist Settings

Warning Methods



With the vehicle on, go to **Setup > Vehicle > Driver Assistance > Warning Methods** from the Settings in the infotainment system to select the following:

- **Warning Volume:** The Warning Volume can be adjusted.

Information

- If you change the Warning Methods, Warning Methods of other Driver Assistance systems may change.
- If the vehicle is restarted, Warning Methods will maintain the last setting.
- There may be no Settings menu depending on the feature applied to your vehicle.
- Even though **0** is selected for Warning Volume, Warning Volume will not be turned off but Warning Volume will sound as **1**.

Remote Smart Parking Assist Operation

Remote Smart Parking Assist button

Parking/View Button	Smart Key
	

Location	Name	Symbol	Description
Inside vehicle	Parking/View button		- Press and hold the Parking/View button to turn on Remote Smart Parking Assist. Also, Forward/Reverse Parking Distance warning will automatically turn on. However, functions may differ depending on the situations. Refer to the each function's description for more information in the following pages. - Press and hold the Parking/View button while Smart Parking or Smart Exit function is on to operate the function.
	Remote Start button		- Press the Remote Start button after the door is locked with the vehicle off to start the vehicle remotely. - Press the Remote Start button while Remote Smart Parking or Remote Operation function is operating to end function operation.
Smart key	Forward button		When using Remote Parking function, regardless of which direction button is pressed, parking is supported while the button is pressed.
	Backward button		When using the Remote Operation function, the vehicle moves in the direction of the button while the button is pressed.

Remote Operation

Operating order

Remote Operation operates in the following order:

1. Getting ready to remotely move forward and backward
2. Remotely moving forward and backward

1. Getting ready to remotely move forward and backward

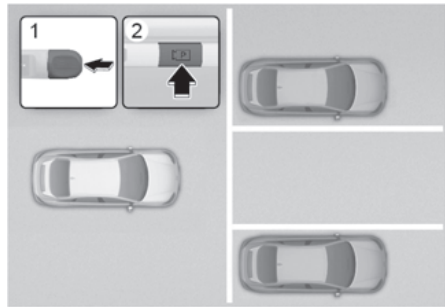
There are two ways to operate Remote Operation function.



Method 1. Using the function with vehicle off

- Within a certain range from the vehicle press the door lock (🔒) button on the smart key and lock all doors.
- Press and hold the Remote Start button (🔑) within 4 seconds until the vehicle starts.

For more information on remotely starting the vehicle, refer to the "Remote Start" section in chapter 6.



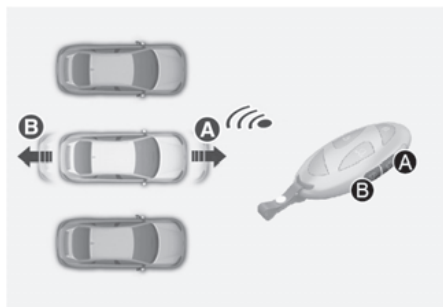
Method 2. Using the function with vehicle on

1. Park the vehicle in front of the space where you want to use Remote Operation function, and shift the gear to P (Park).
2. Press and hold the Parking/View (K.P.) button to turn on Smart Parking Assist.
 - A message **Remote Parking instructions** will appear on the infotainment system.
3. Get out of the vehicle with the smart key and close all doors.

i Information

- **Agree** must be selected on the infotainment system and the infotainment system has to operate properly to use Remote Operation function.
- Method 2 can be used after the vehicle has been driven above 5 km/h (3 mph).
- If the function is turned on again after parking is completed by Remote Smart Parking Assist, Remote Operation function can be used with Method 2.

2. Remotely moving forward and backward



1. Press and hold one of the Forward (A) or Backward (B) button on the smart key.
 - Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift. The vehicle will move in the direction of the button pressed.
 - While Remote Operation function is operating, if you let the button, the vehicle will stop and function control will pause. The function will start operating again when the button is pressed and held again.

2. Hold down the Forward (A) or Backward (B) button until the vehicle reaches the target location.
3. When Remote Operation is done, get in the vehicle with the smart key or press the Remote Start (C) button on the smart key from outside the vehicle.
 - The message will appear on the infotainment system. The vehicle will automatically shift to P (Park) and engage the parking brake.
 - When the Remote Start (C) button is pressed, the vehicle will turn off. If the driver is in the vehicle, the vehicle will retain ON position.

i Information

- Remote Operation can control the vehicle remotely using the smart key outside the vehicle.
- Check that all smart keys are outside the vehicle when using Remote Operation function.
- Remote Operation function will operate only when the smart key is within 4 m (13 ft.) from the vehicle. If there is no vehicle movement even when the Forward or Backward button is pressed on the smart key, check the distance to the vehicle and press the button again.
- The detecting range of the smart key may vary depending on the surroundings that are affected by radio waves such as transmission tower, broadcast station, etc.
- When remotely moving forward using Method 1, it is recognized as an exit situation, and the vehicle moves 4 m (13 ft.) to check for parking lines, pedestrians, animals or objects around the vehicle. After confirmation, the steering wheel is controlled according to the condition ahead.

- When remotely moving forward using Method 2, it is recognized as a parking situation, and will immediately control the steering wheel according to the condition ahead to assist with entering the parking space and aligning the vehicle. However, performance may reduce depending on the parking lines, pedestrians, animals, shape of objects, location, etc., around the vehicle.
- For moving remotely backward, both Method 1 and 2 aligns the steering wheel first, and then will only move the vehicle straight.



WARNING

- When using Remote Operation function, make sure that all passengers have gotten out of the vehicle.
- If the vehicle's battery is discharged or Remote Smart Parking Assist malfunctions when parked in a narrow parking space, Remote Operation function will not operate. Always park your vehicle in a space wide enough for you to get in or out of your vehicle.
- Please note that depending on the parking space, you may not be able to exit from the space you have entered by using Remote Operation function.
- After parking, the surrounding may change due to the movement of surrounding vehicles. If this occurs, Remote Operation function may not operate.
- Before leaving the vehicle, close windows and sunroofs, and make sure the vehicle is off before locking the doors.

Remote Operation function operation status

Operation Status	Smart Key LED	Hazard Warning Light
Under control	Green LED continuously blinks	-
Pause	Red LED continuously blinks	Blinks
Off	Red LED illuminates for 4 seconds and then turns off	Blinks 3 times and turns off
Complete	Green LED illuminates for 4 seconds and then turns off	Blinks 1 time and turns off

i Information

- Operation status by the hazard warning light may not be applicable based on the regulation of your country.
- If the smart key is not within the operating range from the vehicle (about 4 m (13 ft.)), the smart key LED will not illuminate or blink. Use the smart key within the operating range.

How to turn off Remote Operation function while operating

- Press the Parking/View (P) button while the infotainment system guides the driver using method 2.
- Shift the gear from P (Park) to any other position while the infotainment system guides the driver using method 2.
- Press the Parking Safety (P) button or select **Cancel** on the infotainment system.
- Press the Remote Start (R) button on the smart key while the vehicle is being controlled by Remote Operation function. Remote Operation function will turn off. At this time, the vehicle will turn off.
- Get on the vehicle with the smart key. Remote Operation function will turn off. At this time, the vehicle will remain on.

The function will pause in the following conditions when:

- There is a pedestrian, animal or object in the direction the vehicle is moving
- The door or trunk is open
- The Forward (F) or Backward (B) 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)
- Parking Collision-Avoidance Assist or Rear Cross-Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction.
- The vehicle moves 7 m (22 ft.) while the smart key is pressed with Remote Operation function (maximum travel distance per button press)

The function will cancel in the following conditions when:

When Remote Operation function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

- The steering wheel is steered
- The gear is shifted while the vehicle is moving
- Operating EPB while the vehicle is moving
- The hood is open
- The brake pedal or accelerator pedal is depressed when all the doors are closed
- The smart key is outside the vehicle when the brake pedal is depressed while the driver's door is open
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- About 3 minutes and 50 seconds has passed after Remote Operation function has started to operate
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- The total travel distance of the vehicle has exceeded 14 m (45 ft.) after Remote Operation function operation
- The steering wheel, gearshift, braking, and drive controls are not working properly
- There is a problem with the smart key or the smart key battery is low
- ABS, TCS or ESC system operates due to slippery road conditions
- The alarm of the Theft Alarm System sounds
- The charging door is open

Smart Parking, Remote Smart Parking

The parking function includes Smart Parking using the Parking/View (P) button and Remote Smart Parking using a smart key.

Operating order

Parking function operates in the following order:

1. Getting ready for parking
2. Searching for parking space
3. Select parking type and operating mode
4. Smart Parking
5. Remote Smart Parking

1. Getting ready for parking



1. With the vehicle turned on, depress the brake pedal and shift the gear to D (Drive) or N (Neutral).
2. Press and hold the Parking/View (P) button to turn on Remote Smart Parking Assist.

i Information

- **Agree** must be selected on the infotainment system and the infotainment system has to operate properly to use Parking function.
- If you drive above 5 km/h (3 mph) with the vehicle on, you may use the Parking function with the gear shifted to N (Neutral).

2. Searching for parking space



Slowly drive forward maintaining the distance of about 100 cm (40 in.) from the parked vehicles.

Searches for a parking space by detecting the parking lines or the spaces next to or in front and behind the parked vehicles.

When searching for a parking space is complete, a message will appear on the infotainment system with an audible sound to notify the search is complete.

Select Parking Type will be displayed on the infotainment system and the selected parking space will appear on Top View screen of Surround View Monitor.

i Information

- Remote Smart Parking Assist can only search for parking spaces when parking lines are visible or when there are parked vehicles, and the empty spaces created after driving or the empty spaces in front of a vehicle that has not yet been driven cannot be searched as the a parking space.
- While searching for a parking space, when vehicle speed is above 20 km/h (12 mph), a message will appear on the infotainment system informing you to slow down. When vehicle speed is above 30 km/h (18 mph), Parking function will turn off.
- Searching for a parking space will be completed when there is enough space to move the vehicle in addition to the parking space.
- Even if an audible sound is heard to notify that searching for a parking space is complete, search completion can be cancelled immediately depending on surroundings.

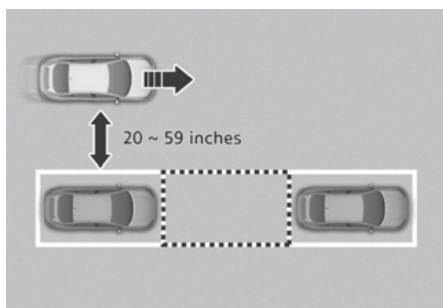
- If you do not maintain a certain distance from the parked vehicle, the performance to search for a parking space may reduce.
- Due to abnormal performance of the ultrasonic sensor or the influence of the surroundings, Parking function may not be able to search for a parking space even if there is a parking space, or may search for a space that is not suitable for parking.
- If the parking space is on a incline or is diagonal, the parking type displayed may be different from the actual parking type which should be selected. If this occurs, do not select the parking type, and search for another parking space.

3. Select parking type and operating mode



- Parking type - Perpendicular reverse (Left/Right), Parallel reverse (Left/Right)
With the vehicle stopped by depressing the brake pedal, touch the infotainment system to select the desired parking type.

i Information



- If the distance is below 50 cm (20 in.) or over 150 cm (59 in.), Remote Smart Parking Assist may not be able to search for a parking space.

i Information

- If you continue to drive without stopping after the parking type selection screen appears, Remote Smart Parking Assist will return to the previous stage and search for a parking space.
- If Parking function is cancelled unintentionally by pressing the Parking/View () button before the parking type is selected, you can return to the parking type selection stage by pressing and holding the button again while the vehicle is stopped.

WARNING

Before selecting the Parking type, the driver should check whether the parking space is suitable.

If the searched parking space by Remote Smart Parking Assist is narrow or unsuitable for parking, do not select the Parking type and move the vehicle to search for another parking space.



- Operating mode - Remote Parking, Smart Parking

After selecting a parking type, the infotainment system will guide you with Remote Parking function and Smart Parking function. Follow the instructions to operate Remote Smart Parking Assist.

i Information

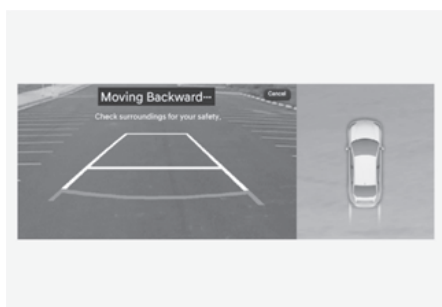
- Operating instructions will be displayed on the screen for each desired function you select.
- Do not take your foot off the brake pedal during the Parking function guide. When the vehicle moves, Remote Smart Parking Assist will turn off.

i Information



If Remote Smart Parking Assist cannot activate Remote Parking function, only the Smart Parking guide will be displayed on the infotainment system.

4. Smart Parking



1. Press the Parking/View (P) button when the vehicle is stopped by depressing the brake pedal.
2. Release the brake pedal while pressing the Parking/View (P) button.
 - Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
 - While Smart Parking function is operating, if you do not hold down the Parking/View (P) button, the function will stop and function control will pause. The function will start operating again when the Parking/View (P) button is pressed and held again.

3. Press and hold the Parking/View (P) button until parking is completed.
 - When the vehicle reaches the target parking position, a message will appear on the infotainment system to inform you that parking is complete. The vehicle will automatically shift to P (Park) and engage EPB (Electronic Parking Brake).
4. If you need to change the vehicle's position or location, manually complete parking your vehicle.

i Information

- Smart Parking function will not operate if the door is open or the seat belt is not fastened.
- The parking location indicator is displayed on Surround View Monitor screen and is displayed until the vehicle enters the parking space for the first time by Smart Parking function.
- Vehicle speed can be adjusted by depressing the brake pedal while Smart Parking function is operating. However, the vehicle does not accelerate even when the accelerator pedal is depressed.
- Depending on parking environments, if the vehicle is stopped by a stopper, parking may be completed.

5. Remote Smart Parking



1. Depress the brake pedal and shift the gear to P (Park).
2. Get out of the vehicle with the smart key, and close all doors.
3. Press one of the Forward (⬆) or Backward (⬇) button on the smart key.
 - While pressing the button, Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
 - While Remote Parking function is operating, if you do not hold down the button, the vehicle will stop and function control will pause. The function will start operating again when the button is pressed and held again.
4. Press and hold the Forward (⬆) or Backward (⬇) button until parking is completed.
 - When the vehicle reaches the target parking position, a message will appear on the infotainment system to inform you that parking is complete. The vehicle will automatically shift to P (Park), engage EPB (Electronic Parking Brake) and the vehicle will turn off.

5. If you need to change the vehicle's position or location, manually complete parking your vehicle.

i Information

- When operating Remote Parking function, make sure all smart keys are outside of the vehicle.
- Remote Parking function will operate only when the smart key is within 4 m (13 ft.) from the vehicle. If there is no vehicle movement even when the Remote Forward or Backward button is pressed on the smart key, check the distance to the vehicle and press the button again.
- The detecting range of the smart key may vary depending on the surroundings that are affected by radio waves such as transmission tower, broadcast station, etc.
- The parking location indicator is displayed on Surround View Monitor screen and is displayed until the vehicle enters the parking space for the first time by Remote Parking function.
- Depending on parking environments, if the vehicle is stopped by a stopper, parking may be completed.

⚠ WARNING

- When using Remote Parking function, make sure that all passengers have gotten out of the vehicle.
- After ending or turning off Remote Parking function, before leaving the vehicle, close windows and sunroofs, and make sure the vehicle is off before locking the doors.

Parking function operation status

- Smart Parking function

Operation Status	Turn Signal
Under control	The turn signal of the parking direction blinks until the first reverse is complete.

- Smart Parking function

Operation Status	Smart Key LED	Hazard Warning Light	Turn Signal
Under control	Green LED continuously blinks	-	The turn signal of the parking direction blinks until the first reverse is complete.
Pause	Red LED continuously blinks	Blinks	-
Off	Red LED illuminates for 4 seconds and then turns off	Blinks 3 times and turns off	-
Complete	Green LED illuminates for 4 seconds and then turns off	Blinks 1 time and turns off	-

***i* Information**

- Operation status by the hazard warning light and turn signal may not be available based on the regulation of your country.
- If the smart key is not within the operating range from the vehicle (about 4 m (13 ft.)), the smart key LED will not illuminate or blink. Use the smart key within the operating range.

How to turn off Parking function while operating

- Press the Parking/View () button in the following stage:
 - Searching for parking space
 - Select parking type
- Shift the gear to R (Reverse) in the following stage:
 - Searching for parking space
 - Select parking type
 - Select operating mode
- Press the Parking Safety () button or select **Cancel** on the infotainment system to turn off Parking function.
- While Smart Parking function is operating:
 - If the vehicle is stopped by depressing the brake pedal, and the gear is shifted, Parking function will turn off. At this time, EPB (Electronic Parking Brake) will not be engaged.
- While Remote Parking function is operating:
 - Press the Remote Start () button on the smart key. Parking function will turn off.

i Information

Get on the vehicle with the smart key. Parking function will turn off. At this time, the vehicle will remain on.

The function will pause in the following conditions when:

- Smart Parking
 - There is a pedestrian, animal or object in the direction the vehicle is moving
 - The door or trunk is open
 - The driver's seat belt is not fastened
 - Parking Collision-Avoidance Assist or Rear-Cross Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction
 - The Parking/View () button is not continuously pressed
 - The vehicle is stopped by depressing the brake pedal
- Remote Smart Parking
 - There is a pedestrian, animal or object in the direction the vehicle is moving
 - The door or trunk is open
 - 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
 - Parking Collision-Avoidance Assist, Rear-Cross Traffic Collision-Avoidance Assist, or Parking Collision-Avoidance Assist operates

When Parking function is paused, the vehicle will automatically stop. If the condition that made the function to pause disappears, the function may operate again.

The function will cancel in the following conditions when:

- Smart Parking
 - The steering wheel is steered

- The gear is shifted while the vehicle is moving
- Operating EPB while the vehicle is moving
- The hood is open
- The driver opens the door with the seatbelt unfastened
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- There are pedestrians, animals or objects at the front and rear of the vehicle at the same time
- About 3 minutes and 50 seconds have past after Smart Parking function has started to operate
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- 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
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- There are pedestrians, animals or objects at the front and rear of the vehicle at the same time
- About 3 minutes and 50 seconds have past after Remote Parking function has started to operate
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- The steering wheel, gearshift, braking, and drive controls are not working properly
- There is a problem with the smart key or the smart key battery is low
- ABS, TCS or ESC system operates due to slippery road conditions
- The alarm of the Theft Alarm System sounds
- The charging door is open

When Smart Parking function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

- Remote Smart Parking
 - The steering wheel is steered
 - The gear is shifted
 - Operating EPB while the vehicle is moving
 - The hood is open
 - The brake pedal or accelerator pedal is depressed when all the doors are closed
 - The smart key is outside the vehicle when the brake pedal is depressed while the driver's door is open

When Remote Parking function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

Smart Exit

Operating order

Smart Exit function operates in the following order:

1. Getting ready for exit
2. Checking space
3. Select exit direction
4. Smart Exit

1. Getting ready for exit



1. With the vehicle turned on, depress the brake pedal and shift the gear to P (Park) or N (Neutral).
2. Press and hold the Parking/View (P) button to turn on Remote Smart Parking Assist.

i Information

- **Agree** must be selected on the infotainment system and the infotainment system has to operate properly to use Smart Exit function.
- Drive below 5 km/h (3 mph) with the vehicle on and shift the gear to P (Park) or N (Neutral), Smart Exit function can be used.
- If the function is turned on again after parallel parking is completed by Remote Smart Parking Assist, Smart Exit function can be used.

2. Checking space



When the vehicle is stopped by depressing the brake pedal, the vehicle sensors will detect the distance from nearby objects and check for space to exit.

When checking for space is complete, a message will appear on the infotainment system with an audible sound to notify the search is complete.

! WARNING

- While checking for space, if there is a risk of collision with pedestrian, animal or object in the direction of vehicle exit, for your safety, Smart Exit function can be turned off.
- Even if check for space is completed, objects in the blind spot area cannot be detected by the sensors. The driver must directly check the blind spot area and continue using the function.

i Information

Due to abnormal performance of the ultrasonic sensor or the influence of the surroundings, Parking function may not be able to search for a parking space even if there is a parking space, or may search for a space that is not suitable for parking.

For more information, refer to the "Limitations of Remote Smart Parking Assist" section in this chapter.

3. Select exit direction



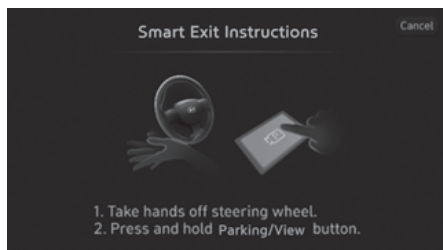
With the vehicle stopped by depressing the brake pedal, touch the infotainment system to select the desired exit direction.

WARNING

Before selecting the Exit Direction, the driver should check whether the space for exit is suitable.

If the searched exit space by Remote Smart Parking Assist is narrow or unsuitable (surrounding vehicles are parked vertically, etc.), do not use the Smart Exit function.

4. Smart Exit



1. Press the Parking/View () button when the vehicle is stopped by depressing the brake pedal.

2. When the Parking/View () button is pressed, release the brake pedal according to the instructions.

- Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
- While Smart Exit function is operating, if you do not hold down the Parking/View () button, the vehicle will stop and function control will pause. The function will start operating again when the Parking/View () button is pressed and held again.

3. Press and hold the Parking/View () button until exiting is completed.

- When the vehicle reaches the target exit location, a message will appear on the infotainment system to inform you that exit is completed.

Information

- Smart Exit function will not operate if the door is open or the seat belt is not fastened.
- Vehicle speed can be adjusted by depressing the brake pedal while Smart Exit function is operating. However, the vehicle does not accelerate even when the accelerator pedal is depressed.
- If exit is completed while depressing the brake pedal, Smart Exit function will complete with the gear in D (Drive).
- If exit is completed while depressing the accelerator pedal, you must take your foot off the accelerator pedal once for the accelerator pedal to operate.
- If there is no vehicle operation such as depressing the brake pedal or accelerator pedal within 4 seconds after exit is complete, the vehicle will automatically shift to P (Park) and engage EPB (Electronic Parking Brake).
- After Exit function is complete, always check the surroundings before driving.

Smart Exit operation status

Operation Status	Turn Signal
Under control	The turn signal of the exit direction blinks until the exit is complete or Smart Exit is canceled.

How to turn off Smart function while operating

- Press the Parking/View (P) button in the following stage:
 - Checking space
 - Select exit direction
- Shift the gear to R (Reverse) in the following stage:
 - Checking space
 - Select exit direction
- Press the Parking Safety (P) button or select **Cancel** on the infotainment system to turn off Exit function.
- While Smart Exit function is operating, if the vehicle is stopped by depressing the brake pedal, and the gear is shifted, Exiting function will turn off. At this time, EPB (Electronic Parking Brake) will not be engaged.

The function will pause in the following conditions when:

- There is a pedestrian, animal or object in the direction the vehicle is moving
- The door or trunk is open
- The driver's seat belt is not fastened
- Parking Collision-Avoidance Assist or Rear-Cross Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction
- The Parking/View (P) button is not continuously pressed
- The vehicle is stopped by depressing the brake pedal

When Exit function is paused, the vehicle will stop. If the condition that made the function to pause disappears, the function may operate again.

The function will cancel in the following conditions when:

- Smart Exit
 - The steering wheel is steered
 - The gear is shifted while the vehicle is moving
 - Operating EPB while the vehicle is moving
 - The hood is open
 - The driver opens the door with the seatbelt unfastened
 - Rapid acceleration occurs
 - Vehicle skid occurs
 - The wheel is stuck by an obstacle and cannot move
 - There are pedestrians, animals or objects at the front and rear of the vehicle at the same time
 - About 3 minutes and 50 seconds have past after Smart Exit function has started to operate
 - The slope of the road exceeds the operational range
 - The function was paused for more than 1 minute
 - 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

When Smart Exit function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

Remote Smart Parking Assist Malfunction and Limitations

Remote Smart Parking Assist malfunction

Remote Smart Parking Assist check



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

Remote Smart Parking Assist canceled



When Remote Parking Assist 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 Remote Smart Parking Assist.

Remote Smart Parking Assist standby



The '**Parking Assist Conditions Not Met**' message will appear in the following circumstances:

- When '**Parking Assist Conditions Not Met**' message appears when Parking/View (Ⓟ) button has been pressed and held while Remote Smart Parking Assist is in standby. After a while, press and hold the Parking/View (Ⓟ) button again to see if Remote Smart Parking Assist works.
- When the smart key's battery is low. Check the smart key battery level.
- It does not work even when the EV mode is in the Utility mode. For related information, refer to the "Setting Utility Mode" section in chapter 1.

Limitations of Remote Smart Parking Assist

In the following circumstances, Remote Smart Parking Assist performance to park or exit the vehicle may be limited, there may be a risk of collision, or Remote Smart Parking Assist may turn off. Park or exit the vehicle manually if necessary.

- An object is attached to the steering wheel
- 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
- 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
- There is a person, animal or object above or below the ultrasonic sensor when Remote Smart Parking Assist is activated
- The parking space is curved or diagonal
- There is an obstacle such as a person, animal or object (trash can, bicycle, motorcycle, shopping cart, narrow pillar, etc.) near 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 Remote Smart Parking Assist on uneven roads, gravel roads, bushes, etc.
- The performance of the ultrasonic sensor is affected by extremely hot or cold weather
- The ultrasonic sensor is covered with snow or water
- An object that generates ultrasonic waves is nearby
- A wireless device with a transmission function operates near the ultrasonic sensors
- Your vehicle is affected by another vehicle's Parking Distance Warning
- The sensor is mounted or positioned incorrectly by an impact to the bumper
- The cameras is improperly mounted or out of position due to side view mirror damage
- The ultrasonic sensor cannot detect the following objects when:
 - Sharp or slim objects, such as ropes, chains or small poles
 - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter
 - Objects which tend to absorb sensor frequency, such as clothes, spongy material or snow
 - A narrow object such as a corner of a square pillar
 - Person, animal or object near the ultrasonic sensor

- The cameras may not properly recognize or may not recognize the parking line and objects when:
 - There are small objects (curb, etc.), sharp objects, or thin objects (rope, etc.) around
 - People, animals or objects are too close or too far from the vehicle
 - Objects are on a higher position, such as pickup trucks
 - The camera is obscured by dirt or moisture
 - The camera is exposed to bright light
 - The surrounding is too dark
 - The light is reflected from the surface

Remote Smart Parking Assist may not operate properly under the following circumstances:

- Parking on inclines



Park or exit manually when the vehicle is on inclines.

- Parking on uneven road



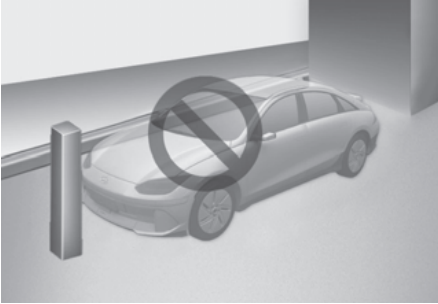
Remote Smart Parking Assist may cancel when the vehicle slips, or the vehicle cannot move due to road conditions such as pebbles or fragmented stones.

- Parking behind a truck



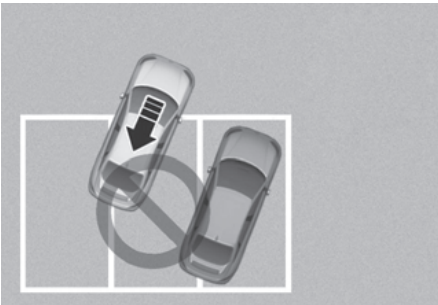
Do not use Remote Smart Parking Assist around vehicles with higher ground clearance, such as a bus, truck, etc. It may lead to an accident.

- Parking near a pillar



Remote Smart Parking Assist performance may reduce 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. The driver should park the vehicle manually.

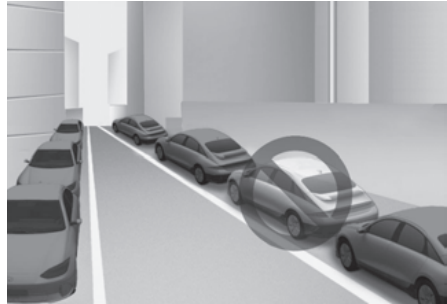
- Parking next to a misaligned vehicle



If Remote Smart Parking Assist 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 will park side by side with the parking line.

- Leaving a parking space near a wall or parking in a narrow space



- Remote Smart Parking Assist may not operate properly when leaving a parking space that is narrow and near a wall. Always check for pedestrians, animals, objects while leaving.
- For your safety, Remote Smart Parking Assist does not search for parking spaces at areas with narrow parking spaces that are narrower than the minimum space required for parking.

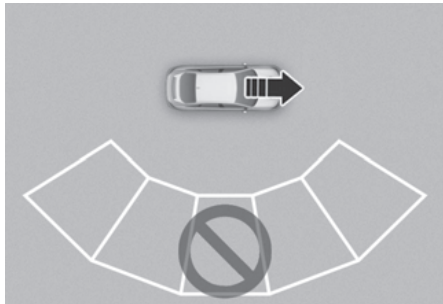
Remote Smart Parking Assist may not operate properly when parking in a narrow space. Always check for pedestrians, animals, objects while parking.

- Parking in snow



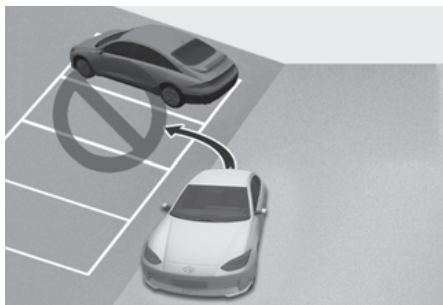
Snow may interfere with the operation of the ultrasonic sensor and wide view camera, or Remote Smart Parking Assist may cancel if the road is slippery while parking.

- Abnormal parking space



Remote Smart Parking Assist does not work properly when the parking lines are not parallel. Do not park although the parking space is recognized by the sensor.

- Inclined parking space



Remote Smart Parking Assist does not work properly on a inclined or curved road surface. Do not park although the parking space is recognized by the sensor.

- Parking diagonal



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

WARNING

Take the following precautions when using Remote Smart Parking Assist:

- The driver is responsible for safe parking and exit when using Remote Smart Parking Assist.
- When using Remote Smart Parking Assist, stay out of the way in the direction the vehicle moves for your safety.
- Always check surroundings when using Remote Smart Parking Assist. You may collide with pedestrians, animals, or objects if they are near the sensor or are in the sensor's blind spot area.
- A collision may occur if a pedestrian, animal, or object suddenly appears while Remote Smart Parking Assist is operating.
- Do not use Remote Smart Parking Assist when under the influence of alcohol.
- Do not let children or other people to use the smart key.
- If Remote Smart Parking Assist is used continuously for a long period, it may adversely affect Remote Smart Parking Assist performance.

- Remote Smart Parking Assist may not operate properly if the vehicle needs wheel alignment adjustment such as when the vehicle tilts to one side. Have the vehicle inspected by an authorized HYUNDAI dealer.
 - Noise may be heard when braking occurs by Remote Smart Parking Assist or when the brake pedal is depressed by the driver.
 - Remote Smart Parking Assist may suddenly apply the brake to avoid collision with pedestrian, animal, or object.
 - Use Remote Smart Parking Assist only in a parking space that is large enough for the vehicle to move safely.
 - If Remote Smart Parking Assist does not operate properly, have the vehicle inspected by an authorized HYUNDAI dealer.
-

NOTICE

- If the 3rd stage warning (continuous beep) of the Forward/Reverse Parking Distance Warning sounds while Remote Smart Parking Assist is operating, it means the obstacle detected is close to your vehicle. At this time, Remote Smart Parking Assist will temporarily stop 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.
-

Declaration of Conformity

Front Radar

The radio frequency components (front radar) complies:

- For USA



FCC ID

: 2A3OZ-MRR30

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: MRR-30
IC: 27992-MRR30

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.

Front Corner Radar (if equipped)/Rear Corner Radar

The radio frequency components (Front corner radar/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.



FCC ID : LTQH5TR

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.

Model: H5TR
IC: 3659A-H5TR

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.