

OWNER'S MANUAL

Operation

Maintenance

Specifications

All information in this Owner's Manual is current at the time of publication. However, HYUNDAI reserves the right to make changes at any time so that our policy of continual product improvement may be carried out.

This manual applies to all models of this vehicle and includes descriptions and explanations of optional as well as standard equipment.

As a result, you may find material in this manual that does not apply to your specific vehicle.

Please note that some models are equipped with Right-Hand Drive (RHD). The explanations and illustrations for some operations in RHD models are opposite of those written in this manual.

CAUTION: MODIFICATIONS TO YOUR HYUNDAI

Your HYUNDAI should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your HYUNDAI and may, in addition, violate conditions of the limited warranties covering the vehicle. Certain modifications may also be in violation of regulations established by the Department of Transportation and other government agencies in your country.

TWO-WAY RADIO OR CELLULAR TELEPHONE INSTALLATION

Your vehicle is equipped with electronic components. It is possible for an improperly installed/adjusted two-way radio or cellular telephone to adversely affect electronic systems. For this reason, we recommend that you carefully follow the radio manufacturer's instructions or consult your HYUNDAI dealer for precautionary measures or special instructions if you choose to install one of these devices.

WARNING! (IF EQUIPPED)

The vehicle is equipped with a device of the system Pan-European eCall or UAE eCALL which calls emergency services. Any self- or unauthorized interference in the system Pan-European eCall or UAE eCALL in vehicle systems and its components, installing of equipment which is not recommended by vehicle manufacturer and/or in authorized HYUNDAI dealer can cause incorrect operation (of the device of) the system Pan-European eCall or UAE eCALL making erroneous calls, causing failure of the device (in cars) in case of traffic accident or other accidents, when you need emergency care. This may be dangerous and threaten your life!

SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as DANGER, WARNING, CAUTION and NOTICE. These titles indicate the following:

DANGER

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation that, if not avoided, could result in vehicle damage.

Table of contents

Information/Getting started with your electric vehicle	1
Vehicle information	2
Seats & Safety system	3
Instrument cluster	4
Convenience features	5
Driving your vehicle	6
Driver assistance system	7
Emergency situations	8
Maintenance	9
Index	I

1. Hyundai Warranty Policy

Hyundai New Vehicle Warranty	1-2
Parts Replacement Warranty	1-3
Hyundai Extended Warranty	1-5
Labour Free Service of Vehicle	1-5
Hyundai Road Side Assistance	1-6
Labour Free Service Coupons.....	1-7

HYUNDAI NEW VEHICLE WARRANTY

Hyundai Motor India Limited herein-after called "HMIL", warrants that each new Hyundai vehicle sold shall be free from any defects in material and workmanship, under normal use and maintenance, subject to the following terms and conditions.

1. Warranty Period

This warranty for hyundai vehicle shall exist for a period of 36 months from the date of delivery to the first purchaser irrespective of the mileage. However the warranty for hyundai vehicle being used for commercial purpose such as Taxi/Tourist operation is 36 months/100,000 Kms from the date of delivery to the first purchaser which soever is earlier. The warranty on **High Voltage Battery** shall exist for a period of 96 months/160,000 kms whichever is earlier from the date of delivery to the first purchaser. This warranty is transferable to subsequent owner for the remaining warranty period. This warranty is applicable only in India and not transferable to any other country.

2. What is covered

Except as provided in paragraph 3 hereof, our Authorized Dealers shall either repair or replace, any Hyundai genuine part that is acknowledged by HMIL to be defective in material or workmanship within the warranty period stipulated above, at no cost to the owner of the Hyundai vehicle for parts or labour. Such defective parts which have been replaced will become the property of HMIL

3. What is not covered

This warranty shall not apply to:

- ▶ Normal maintenance services other than the three labour free services, including without limitation, cleaning and polishing, minor adjustments, vehicle tuning, oil/fluid changes, filters replenishment, fastener retightening, wheel balancing, wheel alignment and tyre rotation etc.
- ▶ If the degree of degradation of the high-voltage battery is within the normal aging level according to the use of the vehicle.
 - The criterion for normal aging of high-voltage battery conforms to our internal quality standards.
- ▶ Replacement of parts as a result of normal wear and tear such as belts, brake pads and linings, filters, wiper blades, bulbs, fuses, etc.

Damage or failure resulting from :

- ▶ Negligence of proper maintenance as required in this Owner's Manual and Service Booklet.
- ▶ Misuse, abuse, accident, theft, flooding or fire.
- ▶ Use of improper battery charger, fluids or lubricants.
- ▶ Use of parts other than Hyundai Genuine Parts.
- ▶ Any device and/or accessories not supplied by HMIL.
- ▶ Modifications, alterations, tampering or improper repair.
- ▶ Parts used in applications of which they were not designed or not approved by HMIL.
- ▶ Slight irregularities not recognised as affecting quality or function of the vehicle or parts, such as slight noise or vibrations, or items considered characteristic of the vehicle.
- ▶ Airborne "fallout", Industrial fall out, acid rain, hail and wind storms, or other Acts of God.

- ▶ Paint scratches, dents or similar-paint or body damage.
- ▶ Action of road elements (sand, gravel, dust or road debris) which results in stone chipping of paint or glass.
- ▶ Incidental or consequential damages, including without limitation, loss of time, inconvenience, loss of use of vehicle or commercial loss.

Air Purifier, Auxillary Batteries, Tyres & Tubes, AC Wallbox Charger, Portable Charger (ICCB) or any external accessory originally equipped on Hyundai Vehicles are warranted directly by the respective manufacturers and not by HMIL.

- ▶ This warranty is the entire warranty given by HMIL for Hyundai vehicles and no dealer or its or his agent or employee is authorized to extend or enlarge this warranty and no dealer or its or his agent or employee is authorized to make any oral warranty on HMIL's behalf.
- ▶ HMIL reserves the right to make any change in design or make any improvement on the vehicle at any time without any obligation to make the same change on vehicles previously sold.
- ▶ HMIL reserves the right for the final decision in all warranty matters.

Owner's Responsibilities

- ▶ Proper use, maintenance and care of vehicle in accordance with the instructions contained in this Owner's Manual and Service Booklet. If the vehicle is subject to severe usage conditions, su-

such as operation in extremely dusty, rough, more repeated short distance driving or heavy city traffic during hot weather, maintenance of vehicle should be done more frequently as mentioned in this Owner's Manual and Service Booklet

- ▶ Retention of maintenance service records. It may be necessary for the customer to show that the required maintenance has been performed, as specified in this Owner's Manual and Service Booklet.
- ▶ Delivery of the vehicle during regular service business hours to any authorized Hyundai Dealer to obtain warranty service.
- ▶ In order to maintain the validity of this Basic Warranty, the vehicle must be serviced by Hyundai Authorized workshop in accordance to the Owner's Manual and Service Booklet.

PARTS REPLACEMENT WARRANTY

Hyundai Motor India Limited hereinafter called "HMIL", warrants that each new Hyundai Genuine replacement part purchased from and installed by Hyundai Authorized Dealer shall be free from any defects in material or workmanship, under normal use and maintenance, subject to the following terms and conditions

1. Warranty period

This warranty shall exist for a period of 6 months or until the vehicle has

been driven for a distance of 10,000 Kilometers from the date of installation of replacement part by Hyundai Authorized Dealer, whichever occurs first.

2. What is covered

Except as provided in paragraph 3 hereof, our Authorized Dealer who had sold and installed the replacement part earlier shall either repair or replace the said Hyundai genuine part that is acknowledged by HMIL to be defective in material or workmanship within the warranty period stipulated above, at no cost to the owner of the Hyundai vehicle for parts or labour. Such defective parts which have been replaced will become the property of HMIL

3. What is not covered

This warranty shall not apply to:

- Normal maintenance services of parts such as cleaning, adjustment or replacement (i.e. spark plugs that are oil fouled, lead fouled, or which fail due to the use of low grade fuel).
- Parts that fail due to abuse, misuse, neglect, alteration or accident or which have been improperly lubricated or repaired
- Parts used in applications for which they were not designed or approved by HMIL.
- Failure due to normal wear of parts.
- Direct or indirect failures caused by misuse and improper maintenance of vehicle.

- Any vehicle on which the odometer reading has been altered so that mileage cannot be accurately determined.
- Incidental or consequential damages, including without limitation, loss of time, inconvenience, loss of use of vehicle or commercial loss.

This warranty is the entire warranty given by HMIL for Hyundai replacement parts and no dealer or its or his agent or employee is authorized to extend or enlarge this warranty and no dealer or its or his agent or employee is authorized to make any oral warranty on HMIL's behalf. HMIL reserves the right for the final decision in all warranty matters.

Owner's Responsibility :

- Proper use, maintenance and care of the vehicle in accordance with the instructions contained in the Owner's Manual and Service Booklet.
- Retention of maintenance service records. It may be necessary for the customer to show that the required maintenance has been performed, as specified in this Owner's Manual and Service Booklet.
- **Retention of the customer's copy of the original repair order and its invoice/bill against which the part was replaced.**
- Delivery of the vehicle during regular service business hours to the same Hyundai Authorized Dealer who had sold and installed the replacement part
- In order to maintain the validity

of this Parts replacement Warranty, the vehicle must be serviced by Hyundai Authorized workshop in accordance to the Owner's Manual and Service Booklet.

HYUNDAI EXTENDED WARRANTY*

HML offers optional paid extended warranty on selected models, in addition to the basic new vehicle warranty. For more details on Hyundai Extended Warranty please call the nearest dealer or our toll free number 1-800-11-4645.

Or Visit our Hyundai Website

www.hyundai.co.in

**Conditions apply*

Labour Free Service of Vehicle

Your vehicle is entitled for first three labour free services of Periodic Maintenance Schedule (PMS). Please refer page 2-7 for labour free service coupons.

NOTICE :

All Consumables, Wheel Alignment and / or Part Replacement (if not covered in warranty), if required are chargeable to the customer(s).

We are pleased to introduce you to our 24 X 7 Hyundai Road Side Assistance Programme

Our Road Side Assistance Number is : 1800 102 4645 (Toll Free)

Hyundai Roadside Assistance is a 24 X 7 Emergency Support provided in the event of any Mechanical/Electrical breakdown and / or road traffic accident of a vehicle.

Covered Events & Benefits*	
Break Down / Accident	Roadside repair or vehicle recovery in case of breakdown / road traffic accident
Tire Related	Flat Tire Support
Battery Related	Dead Battery – Jump start
Key Related	Key Lockout Coordination
Taxi Assistance	Taxi Assistance up to 100 km from breakdown location in case of major breakdown
Hydra Crane Support	Extraction of immobile vehicle where direct towing is not feasible

Terms and Conditions

- 1) The Service is applicable for 3 years from the date of delivery.
- 2) The 24 X 7 Road Side Assistance is available up to a nearest Hyundai Authorised Dealer Workshop.
- 3) The Service is applicable for a condition in which the vehicle has been immobile.
- 4) Cost of parts replacement is not included, unless covered under Hyundai Warranty.
- 5) Cost of repairs made to your vehicle is not included, unless it is covered under Hyundai Warranty.
- 6) For purchasing RSA Retail Policy, kindly visit <https://hyundai.assistance.in/> OR nearest Hyundai Authorized Dealer Workshop.

1st Labour Free Service Coupon

(9,000-10,000 km or within 12 months of
delivery, whichever is earlier)

Customer Copy

Model Name _____
Customer's Name _____
VIN _____
Registration No. _____
Mileage _____
Delivery Date _____
Service Date _____
RO Number _____
Dealer/HASC code _____

Servicing Dealer's Stamp

Service Mgr's Signature _____

2nd Labour Free Service Coupon

(19,000-20,000 km or within 24 months of
delivery whichever is earlier)

Customer Copy

Model Name _____
Customer's Name _____
VIN _____
Registration No. _____
Mileage _____
Delivery Date _____
Service Date _____
RO Number _____
Dealer/HASC code _____

Servicing Dealer's Stamp

Service Mgr's Signature _____

3rd Labour Free Service Coupon

(29,000-30,000 km or within 36 months of
delivery whichever is earlier)

Customer Copy

Model Name _____
Customer's Name _____
VIN _____
Registration No. _____
Mileage _____
Delivery Date _____
Service Date _____
RO Number _____
Dealer/HASC code _____

Servicing Dealer's Stamp

Service Mgr's Signature _____

1. Information/Getting started with your electric vehicle

Information	1-3
HYUNDAI motor company	1-3
How to use this manual.....	1-4
Safety messages.....	1-5
Vehicle modifications.....	1-6
Vehicle handling instructions	1-6
Returning used vehicles (for europe).....	1-6
Vehicle data collection and event data recorders	1-7
About "Getting started with your electric vehicle"	1-8
Understanding your electric vehicle	1-8
Characteristics of your electric vehicle.....	1-8
Precautions when using the high voltage battery.....	1-10
Other precautions for electric vehicle management	1-11
Charging your electric vehicle.....	1-12
Safety precautions for charging your electric vehicle	1-12
Checking basic information on charging your electric vehicle	1-18
Using an AC charger	1-25
Using a DC charger.....	1-28
Using a portable charger (ICCB) (except Europe).....	1-31
Stopping charging immediately	1-37
Using Electric Vehicle functions.....	1-38
Checking the Electric Vehicle screen configuration	1-38
Checking energy information	1-40
Setting the next departure time.....	1-42
Setting the options for the AC charger.....	1-44
Setting the target battery charge level	1-46
Setting a battery discharging limit when using Vehicle to Load (V2L)	1-47
Setting electric vehicle specialized functions	1-48
Using V2L function	1-54
Safety precautions when using the V2L function.....	1-54
Using electricity outside the vehicle	1-57
Using electricity inside the vehicle.....	1-58
Solving V2L problems	1-60
Driving your electric vehicle	1-61

1

Starting and stopping the vehicle	1-61
Checking electric vehicle driving information	1-63
Countermeasures for accidents or fire.....	1-73
If the electric vehicle catches fire	1-73
If the electric vehicle is submerged	1-73
If the electric vehicle needs towing	1-74
Other precautions for electric vehicle accidents	1-75

Information

Congratulations, and thank you for choosing HYUNDAI. We are pleased to welcome you to the growing number of discerning people who drive HYUNDAs. We are very proud of the advanced engineering and high-quality construction of each HYUNDAI we build.

Your Owner's Manual will introduce you to the features and operation of your new HYUNDAI. To become familiar with your new HYUNDAI, so that you can fully enjoy it, read this Owner's Manual carefully before driving your new vehicle.

This manual contains important safety information and instructions intended to familiarize you with your vehicle's controls and safety features so you can safely operate your vehicle.

This manual also contains information on maintenance designed to enhance safe operation of the vehicle. It is recommended that all service and maintenance on your car be performed by an authorized HYUNDAI dealer. HYUNDAI dealers are prepared to provide high-quality service, maintenance and any other assistance that may be required.

The QR code affixed to your vehicle is intended to provide direct and exclusive access to the digital version of the Owner's manual. The said QR code shall be deemed to form an integral and permanent component of the vehicle.

It is advised to download and securely retain a copy of the Owner's manual within myHyundai App for reference and use as may be required.

Any tempering, removal, defacement, or alteration of the QR code sticker affixed to the vehicle is strictly discouraged, as the same may impede or restrict access to important vehicle related information made available by the manufacturer through this QR code.

HYUNDAI motor company

CAUTION

Severe vehicle damage may result from the use of poor quality lubricants that do not meet HYUNDAI specifications. You must always use high quality lubricants that meet the specifications listed in the "Electric vehicle specifications" in the Vehicle Specifications section of the Owner's Manual.

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How to use this manual

We want to help you get the greatest possible driving pleasure from your vehicle. Your Owner's Manual can assist you in many ways. We strongly recommend that you read the entire manual. In order to minimize the chance of death or injury, you must read the WARNING and CAUTION sections in the manual.

Illustrations complement the words in this manual to best explain how to enjoy your vehicle. By reading your manual, you will learn about features, important safety information, and driving tips under various road conditions.

The general layout of the manual is provided in the Table of Contents. Use the index when looking for a specific area or subject; it has an alphabetical listing of all information in your manual.

Sections: This manual has nine chapters plus an index. Each section begins with a brief list of contents so you can tell at a glance if that section has the information you want.

Safety messages

Your safety, and the safety of others, is very important. This Owner's Manual provides you with many safety precautions and operating procedures. This information alerts you to potential hazards that may hurt you or others, as well as damage your vehicle.

Safety messages found on vehicle labels and in this manual describe these hazards and what to do to avoid or reduce the risks.

Warnings and instructions contained in this manual are for your safety. Failure to follow safety warnings and instructions can lead to serious injury or death.

Throughout this manual DANGER, WARNING, CAUTION, NOTICE and the SAFETY ALERT SYMBOL will be used.



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. The safety alert symbol precedes the signal words DANGER, WARNING and CAUTION.

DANGER

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation that, if not avoided, could result in vehicle damage.

Vehicle modifications

- This vehicle should not be modified. Modification of your vehicle could affect its performance, safety or durability and may even violate governmental safety and emissions regulations.
In addition, damage or performance problems resulting from any modification may not be covered under warranty.
- If you use unauthorized electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire.

Vehicle handling instructions

As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control, an accident or vehicle rollover.

Specific design characteristics (higher ground clearance, track, etc.) give this vehicle a higher center of gravity than other types of vehicles. In other words they are not designed for cornering at the same speeds as conventional 2-wheel drive vehicles. Avoid sharp turns or abrupt maneuvers. Again, failure to operate this vehicle correctly may result in loss of control, an accident or vehicle rollover. Be sure to read the "Reducing the risk of a rollover" driving guidelines, in section 6 of this manual.

Vehicle data collection and event data recorders

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an airbag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating
- Whether or not the driver and passenger safety belts were buckled/fastened
- How far (if at all) the driver was depressing the accelerator and/or brake pedal
- How fast the vehicle was traveling

These data can help provide a better understanding of the circumstances in which collisions and injuries occur.

i Information

EDR data is recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (for example, name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

About "Getting started with your electric vehicle"

"Getting started with your electric vehicle" provides information about new technologies applied to the vehicle and explains how to use the main features. "Getting started with your electric vehicle" allows you to quickly and easily understand new vehicle features and how to operate them conveniently.

- Before driving, carefully read the manual provided with the vehicle and follow all safety information and precautions for every vehicle feature.
- "Getting started with your electric vehicle" covers all optional specifications. It may include descriptions for features that are not equipped in the vehicle.
- Images of the exterior and interior of the vehicle in "Getting started with your electric vehicle" may differ from the actual vehicle.

Understanding your electric vehicle

Electric vehicles are driven using a battery and an electric motor. Understand the characteristics of your electric vehicle and check the features that you must know before driving it.

Characteristics of your electric vehicle

The characteristics that differentiate electric vehicles from gasoline and diesel vehicles are as follows:

- Electric vehicles are eco-friendly because they do not use fossil fuels for driving. Additionally, unlike gasoline and diesel vehicles, noise and vibration are minimal, and the vehicle's lifespan is relatively long.
- When slowing down or driving downhill, regenerative braking is used. Regenerative braking charges the high voltage battery and minimizes energy loss.
- If the high voltage battery is running low, you can charge the vehicle using the AC charger, DC charger, or portable charging cables (if equipped). For more information, see "Charging your electric vehicle".

i Information

Regenerative braking uses an electric motor when decelerating and braking, and it transforms kinetic energy to electrical energy in order to charge the high voltage battery.

Battery information

The batteries used in the electric vehicle are as follows:

- **High voltage battery (high-capacity):** Drives the motor and operates the air conditioner. It can be charged via an AC charger, DC charger, or portable charger (if equipped).
- **12 V battery:** Operates all lamps, wipers, and audio system. It is automatically charged while the READY indicator is displayed on the instrument cluster or the high voltage battery is charged.

Main components of your electric vehicle

The main components of your electric vehicle and their functions are as follows:

- **On-Board Charger (OBC):** Charges the high voltage battery by converting the power grid's AC power to DC power.
- **Inverter:** Converts power from direct current (DC) to alternating current (AC) and supplies power to the motor, and converts power from AC to DC and charges the high voltage battery during deceleration and braking.
- **Low Voltage DC-DC Converter (LDC):** Converts the high voltage battery's power source to a low voltage (12 V) power source and supplies power to the electrical devices in the vehicle.
- **Vehicle Control Unit (VCU):** Controls the various controllers and sensors on the vehicle.
- **Motor:** Uses electricity accumulated in the high voltage battery to drive the vehicle (same role as an engine in gasoline and diesel vehicles).
- **Reducer:** Delivers the rotational force of the motor to the tires at appropriate speeds and torque.
- **High voltage battery (Lithium-ion battery):** Stores and supplies power necessary for the electric vehicle to operate. (The separately installed 12 V battery provides power to the vehicle when the vehicle is in **ACC** or **OFF**.)

WARNING

- Do not remove or disassemble any high voltage battery's connectors and wires. Doing so may lead to accidents, such as electric shock, and result in serious injury and significantly degrade the vehicle's performance and durability.
- When the high voltage battery or its related components require inspection and maintenance, we recommend that you contact an authorized HYUNDAI dealer.

Precautions when using the high voltage battery

Precautions for high voltage battery when driving and storing the vehicle are as follows:

CAUTION

- Keep the gauge of the high voltage battery from going below 10 %. Storing the vehicle while the battery level is low for a long time may damage the battery or reduce the battery's capacity, potentially causing the need for a battery replacement.
- If a collision occurs and the vehicle is impacted, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer to check the battery connection status.
- Using the V2L function may reduce the driving distance due to the use of the high voltage battery energy, and repeated use of the V2L function may cause a decrease in the life of the high voltage battery.
- Repeated use of a DC charger may cause a decrease in the life of the high voltage battery.
- The high voltage battery level may reduce naturally even if the vehicle is not driven.
- Storing the vehicle in temperatures that are too hot or cold may degrade the battery performance.
- The distance to empty or power output may vary depending on the driving conditions, such as the outside temperature. Driving at high speeds or uphill may increase battery consumption, resulting in a shorter distance to empty.
- If you use the air conditioning or heating, which is powered by the high voltage battery, the distance to empty may decrease. Maintain proper temperature when using the air conditioning or heating.
- Depending on the vehicle's period of use, natural degradation of the battery may occur, so the distance to empty may decrease. When the charge capacity and distance to empty keep failing, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- If you do not use the vehicle for a long time, charge the vehicle at least once every 3 months to prevent the battery from fully discharging. When the battery level is low, immediately charge the vehicle.
- To keep the battery in optimal condition, use AC charging. Fully charging the battery when it is 20 % or lower helps to keep the battery in optimal condition. (Charging once a month or more is recommended.)
- The charging level value displayed on the instrument cluster may decrease according to the charging conditions (charger status, outside temperature, battery temperature, etc.). For longer battery life and safety, after a certain charging level is reached, the charging current is gradually lowered to fully charge the battery.
- The high voltage battery charge level may decrease while the vehicle is parked for system checks.

Other precautions for electric vehicle management

CAUTION

- If post repair heat treatment after repairs or painting is required after an accident, the high voltage battery's performance may be degraded. If heat treatment is required, we recommend that you contact an authorized HYUNDAI dealer.
- When cleaning the motor compartment, do not use a high-pressure washer. Doing so may result in electric shock, due to a discharge in high voltage electricity, or damage the vehicle's electric system.
- Do not install third-party parts or modified parts on the vehicle. Doing so may damage the electric power system. Only use or install genuine parts.

High voltage cut-off switch

High voltage cut-off switch is a device located inside the motor compartment to block the battery's high voltage when your vehicle is inspected at an authorized HYUNDAI dealer.



WARNING

- Never touch the high voltage cut-off switch. This could result in serious injury or death in a collision or electric shock.
- If the high voltage cut-off switch requires an inspection or repair, we recommend that you contact an authorized HYUNDAI dealer.
- Never disconnect or cut the high voltage cut-off switch except in an emergency situation. Serious problems may occur, such as the vehicle may not start.

Charging your electric vehicle

Check the detailed information about charging an electric vehicle and charge your vehicle.

Electric vehicles can be charged via an AC charger or DC charger installed at public charging stations. If the vehicle cannot be moved to a public charging station in the event of an emergency, you can charge the vehicle via the In-Cable Control Box (ICCB) with a power source (AC 220 V (except Europe) / AC 230 V (for Europe)).

To find a nearby charging station, refer to the "Searching for nearby charging stations" section in this chapter.

Safety precautions for charging your electric vehicle

Before charging your electric vehicle, carefully read and follow all the safety information below. Failure to do so may cause electric shock or fire and result in a serious injury, death, malfunctions, or property damage.

Precautions for electric medical devices



WARNING

Electromagnetic waves that are generated from the charger can seriously impact electric medical devices, such as an implantable cardiac pacemaker. When using such devices, make sure to consult with your doctor and the manufacturer to find out whether charging your electric vehicle will impact the operation of your device.

Basic safety precautions for charging

WARNING

- Before charging, apply the Electronic Parking Brake (EPB) with the brake pedal pressed, shift to P (Park) and turn off the vehicle. Movement of the vehicle while charging may result in property damage, serious injury, or death.
- Use specified electric vehicle charger only. Failure to do so may damage the charger, charging cable, or vehicle. Also, it may lead to safety hazards, such as fire, explosion, etc.
- To avoid property damage, serious injury, or death from electric shock and fire, follow the instructions below:
 - Do not touch the charging connector, charging plug, or the charging inlet when connecting the cable to the charger and the charging inlet on the vehicle.
 - Do not touch the charging connector and charging plug with wet hands, or when standing in water or snow while connecting the charging cable.
 - When connecting or removing the charging cable, you must hold the charging connector handle and charging plug.
 - Use a waterproof charger. Do not charge the vehicle in a place where rainwater may come into contact with the joints of the charging cable connector and the charging plug.
 - Ensure there is no water, dust, or other contaminants on the charging cable connector and the charging plug.
 - Immediately stop charging if you feel abnormal conditions, such as odor or smoke.
 - Do not charge the vehicle if there is a risk of lightning.

i Information

- While charging, the gear cannot be shifted from P (Park) to any other gear.
 - Ensure the vehicle door is unlocked before disconnecting the charging connector. The unlock button on the charging connector does not work when the vehicle door is locked.
 - To control the temperature of the high voltage battery while charging or when the battery temperature is high, the air conditioner is used to cool down the battery. It may generate noise or vibration from operation of the air conditioner compressor and cooling fan, but this is a normal condition when charging the high voltage battery.
 - The cooling system may be operated when using the air conditioner during charging. This may degrade the air conditioner's performance temporarily.
 - Depending on the condition and durability of the high voltage battery, charger specifications and condition, and ambient temperature, the time required for charging the battery and distance to empty may vary.
 - In rare cases, you might hear high-frequency noise (a small beeping sound) outside the car when charging with a 400 V DC charger that has deteriorated or has long communication delay. The high-frequency noise can be generated only when the vehicle tries to reduce its own electromagnetic waves to keep DC charging as stable as possible. Do not worry about this beep noise, because it is intentional and does not affect the charging performance or the vehicle itself.
-

Precautions for operating the cooling fan

⚠ WARNING



Do not put your hand near the cooling fan in the motor compartment while charging. It may operate automatically to control the battery temperature, even if the vehicle is turned off.

Precautions for operating the charging door

Before operating the charging door, carefully read and follow all the safety information below.

⚠ CAUTION

- Before opening the charging door, check the direction in which the door opens and ensure that there is no interference with nearby objects when opening or closing the door.
- When opening and closing the charging door, be careful not to bump your face, head, etc., or get your hands or other body parts caught in the door.
- If you cannot open the charging door due to freezing weather, lightly tap or remove any ice near the charging door.

For more information, refer to the "Electric charging door" section in chapter 5.

- Do not try to forcibly open the charging door. It may cause damage to the charging door or cause a malfunction.
- Do not hold the parts that support the charging door. Damage to parts or deformation of parts may cause vehicle damage and accidents.

Precautions for using, handling, and storing the charging cable

Precautions when using the charging cable



CAUTION

- To prevent electric shock, replace the charging cable if the coating or the connector is damaged.
 - Do not modify or disassemble the charging cable. Doing so may result in fire, electric shock, or injury.
 - Do not pull or twist the charging cable excessively, and ensure that the cable is not twisted. Power cuts or damage to the cable's insulation sheath may result in electric shock or fire.
 - Do not drag the charging cable on the floor or place objects on it. Damage to the insulation of the cable may result in electric shock or fire.
 - Do not use the charging cable near a heat source or heating appliance.
 - Do not drop or subject the charging cable to a strong impact. Also, ensure no water or liquid comes into contact with the cable.
 - Use the charging cable only when there are no children around.
 - If there is any sign of damage, corrosion, or rust on the charging connector and plug, or if the connection of the charging connector and plug feels loose, do not use the cable. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
-

Precautions when handling and storing the charging cable

CAUTION

- Always keep the charging connector and plug dry and clean.
- Ensure that the connectors, plugs, and control box (portable charger) of the charging cable are not submerged or in contact with water.
- Keep the charging cable free from water or moisture, and keep it in the cargo area compartment.
- Do not keep the charging cable near a heat source or heating appliances.
- Keep the charging cable away from children.
- If there is dust or contaminants inside the charging connector or plug, remove it using the air gun.
- If the charging cable is contaminated, completely disconnect the cable from the charger or power, and remove the contaminants.
 - Wipe the charging cable lightly with the soft cloth soaked with a 3 % neutral detergent aqueous solution, then use a clean cloth to completely remove moisture and dry the cable in a well-ventilated shade.
 - When removing contaminants, ensure the charging connector and charging plug are not in contact with water.
 - Do not use organic solvents, such as benzene, paint thinner, or detergent. Doing so may cause deformation, discoloration, or malfunction of charging cable.
 - When using a vehicle decontamination agent, ensure that the product does not contain organic solvents, such as benzene, paint thinner, or detergent.

Checking basic information on charging your electric vehicle

Before charging your vehicle, check and understand the information such as the expected charging time according to the charge type, checking the State of Charge (SOC), and setting the charger lock mode.

Checking charge types and times

The charge types for electric vehicle are as follows:

- **AC charge:** The electric vehicle is charged via an AC charger at public charging stations. An AC charger may require an AC charging cable (sold separately).
- **DC charge:** You can charge at high speeds at public charging stations. Refer to the respective company's manual that is provided for each DC charger type.
- **Portable charge:** If the vehicle cannot be moved to a public charging station due to a lack of battery power, the vehicle can be charged with household electricity, using the 220 V (except Europe) / 230 V (for Europe) portable charger (sold separately).



CAUTION

- Battery performance and life may deteriorate if the DC charger is used constantly. Use of DC charging should be minimized in order to help prolong high voltage battery life. Use AC charging unless DC charging is necessary.
 - The electrical outlet at home must comply with regulations and can safely accommodate the Voltage, Current (Amps), and Power (Watts) ratings specified on the portable charger. If not, the vehicle may not be charged or safety hazards, such as fire, may occur.
 - If the power distributor exceeds its capacity while charging the vehicle with a portable charger at home, the power to home may be cut off or a fire may occur.
 - If you use a portable charger to charge your electric vehicle with household electricity, you are charged on your household electricity bill.
-

The estimated charging time for each charging type is as follows:

Charging type		Charging time		Charge level (Minimum - Maximum)	Charging condition (Temperature)
		Standard	Long range		
AC charge (230 V/16 A/3P)		About 5 hours 50 minutes	About 7 hours 35 minutes	10-100 %	Battery temperature (25 °C)
DC charge	350 kW	About 18 minutes	About 18 minutes	10-80 %	
	50 kW	About 61 minutes	About 81 minutes	10-80 %	
Portable charge (230 V/12 A)		About 26 hours 5 minutes	About 34 hours 40 minutes	10-100 %	

i Information

- Depending on the condition and duration of use of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.
- If the charger is worn out, exposed, or there exists any type of damage, charging may stop for your safety. Use another charger that works normally.

Checking the charging status

Check the State of Charge (SOC) of the high voltage battery via the charge indicator lamp inside the charging door.

1. With the vehicle door unlocked, press the open indicator on the charging door to open the charging door.
2. Check the SOC referring to the charge indicator lamp inside the charging door.
 - SOC is indicated in 4 levels.

Type A



Type B



Charge indicator lamp	SOC [%]
	0-24 %
	25-49 %
	50-74 %
	75-100 %

Checking information on the charging label

Open the charging door and check the information on the charging label. The charging label shows safety symbols and the rated input specifications for charging.



Type A



Type B



No.	Name	Description
(1)	Warning for high voltage	Indicates a device with a risk of electric shock.
(2)	Warning/Caution symbol	Indicates a device that may cause property damage, serious injury or death if not operated carefully.
(3)	Rated voltage and maximum charging current	Indicates the type of input current (AC) and the rated voltage range (V) and charging current (A) when AC charging.

Setting charging connector locking mode

You can lock the charging connector during AC charging to prevent unintended detachment of the charging connector from the vehicle.

***i* Information**

The connector is automatically locked during DC charging or while using the V2L function, regardless of the settings of charging connector locking mode applied to the vehicle.

- When DC charging is complete, the charging connector is unlocked automatically.
- After using electricity, you can unlock the charging connector by pressing the switch on the V2L connector to turn off the power and unlock the vehicle door.
- On the Home screen of the infotainment system, select **Electric Vehicle** >  > **AC Charger** > **Charging Connector Locking Mode** to set the locking mode of the charging connector.

The available locking mode options are as follows:

- **Always:** Locks the connector automatically whenever the charging connector is plugged into the charging inlet.
- **While charging:** Locks the connector automatically only while charging is in progress after the charging connector is properly connected to the vehicle.

Disconnecting the charging connector in an emergency

If the unlock button is not functioning properly due to a discharged battery or abnormal electrical wiring, the charging connector cannot be disconnected from the vehicle.



CAUTION

Do not disconnect the charging connector forcibly. Doing so may damage the charging connector or the charging inlet on the vehicle.

If the charging connector is not disconnected due to battery being fully discharged or a wiring failure, open the tailgate and pull the emergency cable on the tailgate's right wall.



- If the charging connector does not disconnect after pulling the emergency cable, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Using an AC charger

AC charging is the most common charging method for electric vehicles. Charge your electric vehicle using an AC charging cable installed in public charging stations or separately purchased AC charging cable.

- To find a nearby charging station, refer to the "Searching for nearby charging stations" section in this chapter.

WARNING

Before charging the vehicle, carefully read and follow the instructions in "Safety precautions for charging your electric vehicle" to prevent property damage or injury due to electric shock, fire, explosion, etc.

CAUTION

To prevent property damage or injury due to fire or explosion, follow the instructions below.

- Only use the genuine AC charging cable provided by the manufacturer (if equipped).
- Do not use an extension cable.
- Check the rated voltage and maximum charging current required for charging, and ensure that the charger power you are using meets the requirements.
- Immediately stop charging if you discover abnormal conditions, such as odor or smoke.

Understanding the AC charging cable

The exterior and configuration of the AC charging cable are as follows:



- (1) Charging connector (Vehicle side)
- (2) Charging plug (Charger side)

Charging with an AC charger

Follow the instructions below to charge the vehicle with an AC charger.

1. With the vehicle started, apply the Electronic Parking Brake (EPB) while pressing the brake pedal.
2. Turn all switches off, shift to P (Park), and turn off the vehicle.
3. With the vehicle door unlocked, press the  symbol on the charging door to open the charging door.
4. Open the charging inlet cover and check the charging connector and charging inlet for dust or other contaminants
 - If there is any dirt or contaminants, remove it using the air gun.



WARNING

Do not touch the charging connector of the charging cable or the charging inlet on the vehicle.

5. Remove the charging connector protection cap of the AC charging cable, hold the charging connector handle, and connect it to the AC charging inlet on the vehicle. Push it until you hear a click.

6. **[If using separately purchased charging cable]** Remove the charging plug protection cap of the AC charging cable, hold the charging plug handle, and connect it to the electric outlet (220 V (except Europe) / 230 V (for Europe)) of the AC charger.

- This process is required only when using a separately purchased AC charging cable. If you use a charging cable installed in an AC charger, a separate charging plug connection is not required.
- When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

Information

- If you open the driver's door while charging, the estimated charging time is also displayed on the instrument cluster for about one minute.
- When scheduled charging is set, "**Waiting to charge at scheduled time**" is displayed.
- When scheduled air conditioner or heater operates while waiting for the scheduled charging, the estimated charging time is displayed as "-".

7. **[If using a separately purchased charging cable]** When charging is complete, hold the charging plug handle, disconnect the charging plug from the electric outlet (220 V (except Europe) / 230 V (for Europe)) of the AC charger, and close the protection cap of the charging plug.

- This process is required only when using an AC charging cable purchased separately. If you use a charging cable installed in an AC charger, a separate charging plug disconnection is not required.

8. Hold the charging connector handle, and pull the charging connector to disconnect it from the charging inlet.



CAUTION

Do not forcibly disconnect the charging connector without pressing the unlock button on the charging connector. It may damage the charging connector or the charging inlet on the vehicle.

9. Close the charging inlet cover and press the charging door to completely close it.

Information

- If the charging connector locking mode is set to **Always** or **While charging**, unlock the door by pressing the button on the smart key or the button on the driver's door, and disconnect the charging connector from the charging inlet.
 - For more information, refer to the "Setting charging connector locking mode" section in this chapter.
- During AC charging, the quality of radio reception may degrade in some areas.

Using a DC charger

If you need to charge the vehicle in a short time, you can charge at high speeds using a DC charger installed in public charging stations.

- To find a nearby charging station, refer to the "Searching for nearby charging stations" section in this chapter.

WARNING

Before charging the vehicle, carefully read and follow the instructions in "Setting charging connector locking mode" to prevent property damage or injury due to electric shock, fire, explosion, etc.

CAUTION

- Battery performance and life may deteriorate if the DC charger is used constantly. Use of DC charging should be minimized in order to help prolong high voltage battery life. Use AC charging unless DC charging is necessary.
- Use a charging cable that is shorter than 30 m when using a DC charger. Cables longer than 30 m may not ensure electromagnetic compatibility and should not be used.

Understanding the DC charging connector

The exterior of the DC charging cable is as follows:

Type A



Type B



Charging with a DC charger

Follow the instructions below to charge the vehicle with a DC charger.

1. With the vehicle started, apply the Electronic Parking Brake (EPB) while pressing the brake pedal.
2. Turn all switches off, shift to P (Park), and turn off the vehicle.
3. With the vehicle door unlocked, press the  symbol on the charging door to open the charging door.
4. Open the charging inlet cover and check the charging connector and charging inlet for dust or other contaminants.
 - If there is any dirt or contaminants, remove it using the air gun.

WARNING

Do not touch the charging connector of the charging cable or the charging inlet on the vehicle.

5. Remove the charging connector protection cap of the DC charging cable, hold the charging connector handle, and connect it to the DC charging inlet on the vehicle. Push it until you hear a click.

- When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

Information

If you open the driver's door while charging, the estimated charging time is also displayed on the instrument cluster for about one minute.

6. When charging is complete, hold the charging connector handle and pull out the charging connector to disconnect it from the charging inlet.

- Depending on the DC charger types, some DC chargers may not have a charger connector unlock button.

CAUTION

Before disconnecting the charging connector, check if there is an unlock button on the connector handle. If the connector handle is equipped with an unlock button, forcibly disconnecting the connector without pressing the button may damage the charging connector or charging inlet on the vehicle.

NOTICE

For more information, refer to the "Setting charging connector locking mode" section in this chapter.

7. Close the charging inlet cover.

8. Press the charging door to completely close it.

Using a portable charger (ICCB) (except Europe)

 if equipped

If the vehicle cannot be moved to a public charging station, you can charge the vehicle using a separately purchased In-Cable Control Box (ICCB) in places where general power (AC 220 V (except Europe) / AC 230 V (for Europe)) is supplied.

WARNING

Before charging the vehicle, carefully read and follow the instructions in "Setting charging connector locking mode" to prevent property damage or injury due to electric shock, fire, explosion, etc.

CAUTION

To prevent property damage or injury due to fire or explosion, follow the instructions below.

- Only use a genuine HYUNDAI portable charger (if equipped).
- Do not let children operate or touch the portable charger. Doing so may lead to unexpected accidents.
- Do not use an extension cable.
- The charger power you are using must comply with regulations and safely accommodate the voltage, current (amps), and power (watts) ratings. If not, the vehicle may not be charged or safety hazards, such as fire, may occur.
- If the power distributor exceeds its capacity while charging the vehicle with a portable charger at home, the power to the home may be cut off or a fire may occur.
- Immediately stop charging if you discover abnormal conditions, such as odor or smoke.
- If you charge the vehicle with household electricity, you are charged electricity bill according to the home rate system, not the electric vehicle rate system.

Understanding portable chargers

The configuration of a portable charger and the display of the operation indicator are as follows:



- (1) Power plug
- (2) Control box
- (3) Charging connector

Icon	Name	Color	Description
	POWER	Green	Turns on when the power is on.
	CHARGE	Blue	Turns on while charging and blinks when current is limited (Forcibly switched to 6 A).
	FAULT	Red	Blinks when a leakage current, communication error, or overcurrent error occurs, or when the high-temperature protection inside the plug and charger is activated.
	CHARGE LEVEL	-	Displays the present charging current setting (6 A, 8 A, 10 A, or 12 A).

Icon	Name		Color	Description
	E1	Control pilot communication	-	Vehicle communication error
	E2	Leakage	-	Current leakage
	E3		-	Charger error
	E4	Plug temperature	-	Plug overtemperature warning
	E5		-	Plug temperature failure
	E6		-	Charger error
	E7	Overcurrent	-	Charging overcurrent warning
	E8	Internal temperature	-	Charger overheating
	E9		-	Charger error
	F1	Relay fusion	-	Charger error
	F2	Ground Monitoring/ Interrupt	-	Poor grounding of outlet
	F3	Switched mode power supply power failure	-	Switched mode power supply error (voltage failure)
	F4		-	Switched mode power supply error (abnormal voltage)
	F5	Control Pilot voltage error	-	Control Pilot (-) voltage error
	F6		-	Control Pilot (+) voltage error
	F7	Temperature sensor error	-	Plug temperature sensor error
	F8		-	PCB internal temperature sensor error

- If an error occurs, you can reset the portable charger by disconnecting and reconnecting the power plug, and then pressing the button on the control box for more than 2 seconds.
- If the same symptom repeats after resetting the portable charger, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- If there is no status change for more than 1 minute, the portable charger is switched to power saving mode, and the display light is turned off.

Charging with a portable charger

Follow the instructions below to charge the vehicle with a portable charger.

1. Connect the power plug of the portable charger to the electrical outlet at your home.
 - The power indicator light on the control box turns green.
2. Set the charging current by pressing the button on the control box for more than 2 seconds until the number on the charging current indicator blinks.

NOTICE

An example of a portable charger charging current setting suitable for the rated current of the power supplied is as follows. However, the appropriate charging current may vary depending on the environment, such as the power usage inside the building.

Outlet current	ICCB charge level
20 A	16 A
	14 A
14-16 A	12 A
12-13 A	10 A
10-11 A	8 A
8-9 A	6 A

- The charging current is changed each time the button is pressed, in the order of '6 A - 8 A - 10 A - 12 A'.
- If 10 seconds have passed without pressing any button, the blinking stops and the charging current setting is finished.

3. With the vehicle on, apply the Electronic Parking Brake (EPB) while pressing the brake pedal.
4. Turn all switches off, shift to P (Park), and turn off the vehicle.
5. With the vehicle door unlocked, press the  symbol on the charging door to open the charging door.

6. Open the charging inlet cover and check the charging connector and charging inlet for dust or other contaminants.

- If there is any dirt or contaminants, remove it using the air gun.

WARNING

- Do not touch the charging connector of the charging cable or the charging inlet of the vehicle.
- When connecting the ICCB charging plug to an outlet, ensure you connect it to a grounded outlet. If the outlet does not have a grounding terminal, have a qualified technician install a grounding terminal and then connect the plug (if equipped).

7. Remove the charging connector protection cap of the portable charging cable, hold the charging connector handle, and connect it to the AC charging inlet of the vehicle. Push it until you hear a click.

- When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

Information

- If you open the driver's door while charging, the estimated charging time is also displayed on the instrument cluster for about one minute.
- When scheduled charging is set, "**Waiting to charge at scheduled time**" is displayed.
- When scheduled air conditioner or heater operates while waiting for the scheduled charging, the estimated charging time is displayed as "-".

8. When charging is complete, hold the charging connector handle with the unlock button pressed and pull on the charging connector to disconnect it from the charging inlet.

Information

If you have set the charging connector locking mode as **Always** or **While charging**, unlock the door by pressing the button on the smart key or the button on the driver's door, and disconnect the charging connector from the charging inlet.

- For more information, refer to the "Setting charging connector locking mode" section in this chapter.

9. Close the charging inlet cover.

10. Press the charging door to completely close it.

Using the scheduled charging function

The scheduled charging function allows you to charge your vehicle using low-cost, late-night power until the next departure time.

***i* Information**

You can use the scheduled charging function only when using an AC charger or the portable charger (ICCB: In-Cable Control Box) (if equipped). For more information about connecting an AC charger and portable charger, refer to the "Using an AC charger" and "Using a portable charger (ICCB) (except Europe)" section in this chapter.

On the Home screen of the infotainment system, select **Electric Vehicle** >  > **AC Charger** > **Scheduled Charging**.

- For more information, refer to the "Setting the options for the AC charger" section in this chapter.
- When scheduled charging is set and the AC charger or the portable charger (ICCB) (if equipped) is connected for charging, the indicator lamp gradually illuminates for 3 minutes to indicate that scheduled charging is set.
- When scheduled charging is set, charging is not started immediately when the AC charger or portable charger (ICCB) (if equipped) is connected. To charge the vehicle immediately, open the charging door and press the  button for more than 2 seconds or select **Electric Vehicle** >  > **AC Charger** > **Scheduled Charging** on the screen and deactivate the scheduled charge setting.

***i* Information**

- You can set up or cancel scheduled charging using the HYUNDAI Bluelink app on your smartphone. For more information, refer to the infotainment system manual.
 - Charging may start immediately after a charger is connected to the vehicle, depending on the charging time calculated when setting up the scheduled charging.
-

Stopping charging immediately

If you cannot stop charging the electric vehicle through the charger while charging with an AC charger, DC charger, or portable charger, follow the instructions below:

1. Press the door lock or unlock button of the vehicle.
2. Within 15 seconds press the  button for more than 2 seconds.

Checklist when charging does not start

Check the following if charging does not start after connecting the charger to the vehicle.

- Check the scheduled charging setting. If the scheduled charging is set, charging is not started after connecting an AC charger or portable charger to the vehicle until the setting conditions are met.
- Check the operation status of the AC charger, DC charger, and portable charger. Actual method for indicating the operation status may vary in accordance with the charger manufacturer.
- If a warning sign related to charging appears on the instrument cluster, check its message.
- If the charging connector and charging inlet are not connected properly, the connector may droop or vibrate. In this case, hold the charging connector handle and push it all the way in.
- Check the charging status by connecting another charger that has been approved for proper operation.
 - If the vehicle is charged normally using another charger, contact the charger manufacturer for a solution.
 - If the vehicle is not charged even when using another charger, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Using Electric Vehicle functions

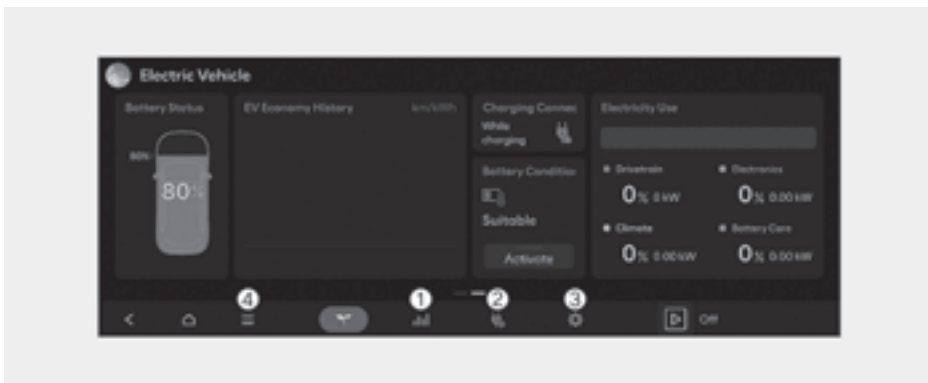
Electric Vehicle provides driving information and high voltage battery information. You can set various electric vehicle functions in **Electric Vehicle**.

Checking the Electric Vehicle screen configuration

Follow the instruction below to enter Electric Vehicle mode and check the screen configuration.

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle**.
 - The **Electric Vehicle** mode screen appears.

The details of the **Electric Vehicle** mode screen is as follows:



No.	Name	Description
(1)		You can check the energy consumption and energy economy history.
(2)		You can set various options related to electric vehicle charging.
	Next Departure	You can set a scheduled departure time by which charging is complete and the cabin temperature is preconditioned. For more information, refer to the "Setting the next departure time" section in this chapter.
	AC charger	You can set the options for AC charger including charging current. For more information, refer to the "Setting the options for the AC charger" section in this chapter.
	Charging Limit	You can set the charging target for fast charging and slow charging. For more information, refer to the "Setting the target battery charge level" section in this chapter.
(3)	Electricity Use Settings (V2L)	You can set the battery discharging limit (%) for the high voltage battery for driving. For more information, refer to the "Setting a battery discharging limit when using Vehicle to Load (V2L)" section in this chapter.
		You can set various electric vehicle specialized functions. • Battery Conditioning • Utility Mode • Plug & Charge For more information, refer to the "Setting electric vehicle specialized functions" section in this chapter.
(4)		You can check charging station, Home screen edit, and online manual.

Checking energy information

You can check the energy consumption and energy economy history.

1. On the infotainment screen, move to Home screen.
 2. On the Home screen, select **Electric Vehicle** > **Electric Vehicle**.
- Check the energy information.

Checking the energy consumption

On the infotainment screen, select **Electricity Use**.

- You can check the current energy consumption for each vehicle system.



No.	Name	Description
(1)	Drivetrain	Shows the percentage of instantaneous and regenerative energy consumed by the motor to drive the vehicle and the percentage of the power driving system used in total power used since starting the vehicle.
(2)	Electronics	Shows the power and energy consumption used by the vehicle system, including the instrument cluster, infotainment system (speaker and navigation), headlight, vehicle control unit, etc., and the percentage of the power vehicle system used in total power used since starting the vehicle.
(3)	Climate	Shows the power and energy consumption used by the air conditioner or heater and the percentage of the power climate system used in total power used since starting the vehicle.
(4)	Battery Care	Shows the momentary power and energy consumption used when increasing and cooling down the battery temperature to maintain optimal battery performance and the percentage of battery temperature control mode (Battery Care mode) used in the total power used since starting the vehicle.

Checking the energy economy history

On the infotainment screen select **EV Economy History**.

- You can check the history of electric energy economy with the date and distance of previous driving.



Setting the next departure time

You can set an anticipated departure time for scheduled charging and target temperature.

i Information

- Scheduled climate is activated based on the departure time.
- The scheduled climate function directly uses the power of the connected charger or the 12 V battery that is being recharged. It can maintain a pleasant environment and enhance vehicle performance by controlling the temperature of the vehicle.

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** > **Next Departure**.

3. Set the anticipated departure schedule.



4. Set anticipated time (1) and temperature (2) the vehicle departure after charging.

5. At repeat option (3), select the day of the week to activate target temperature for the departure time.



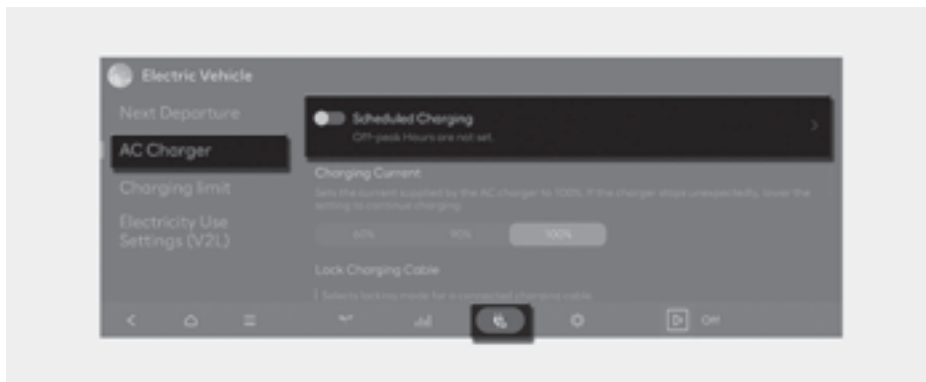
Setting the options for the AC charger

You can set the options for the AC charger including scheduled charging and charging current.

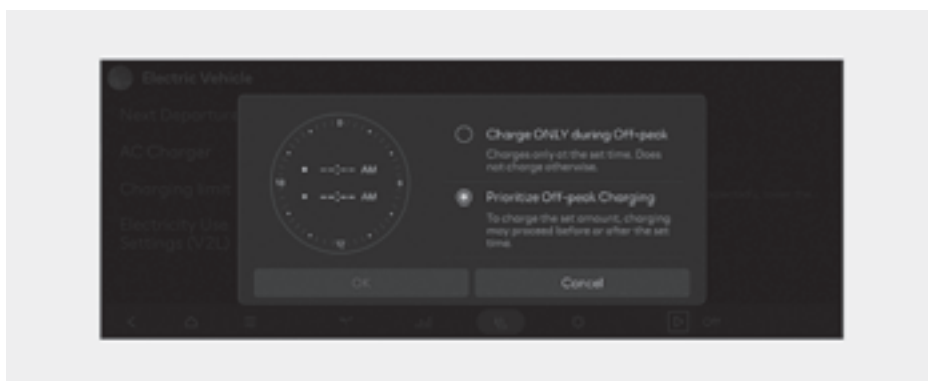
1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** >  > **AC Charger**.
3. Set the required functions.

Setting scheduled charging

Select **Scheduled Charging** to turn on the function.

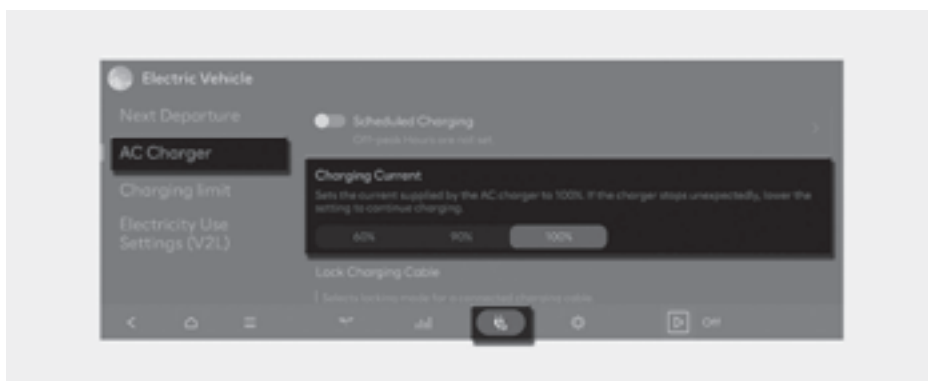


- The scheduled charging option screen appears. Select charging option.
 - **Charge ONLY during Off-peak:** Charging is activated only during the off-peak time. It may not be able to reach the target battery charge level.
 - **Prioritize Off-peak Charging:** Charging is activated during the off-peak time. It may keep on charging pass off-peak time to reach the target battery charge level.
 - For more information about setting the target battery charge level, refer to the "Setting the target battery charge level" section in this chapter.



Setting the charging current

Set the charging current when using an AC charger.



Setting the target battery charge level

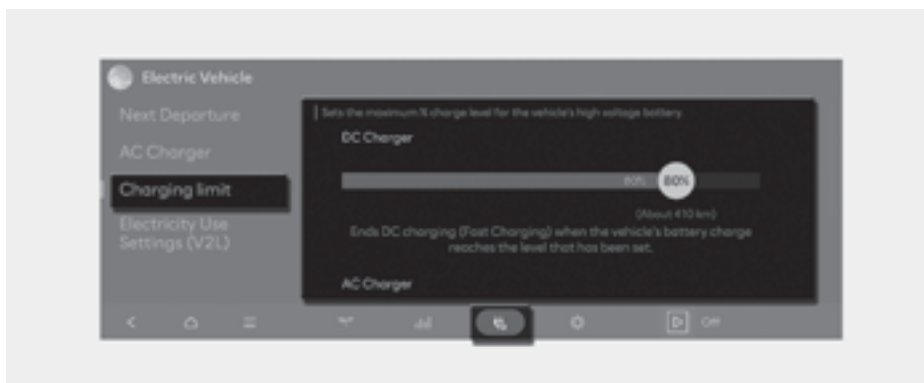
You can set the target battery charge level when charged with an AC charger or a DC charger.

- You can check the status of high voltage battery, estimated distance to empty, and the time required for charging the target battery level.

i Information

- The distance to empty is estimated based on the energy economy and temperatures. It may vary according to your driving style.
- The distance to empty may vary even with the same target level according to changes of your driving style.

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** > **⚙** > **Charging Limit**.
3. Set each of the target battery charge level for AC charger and DC charger.
 - The charging level can be changed by 10 %.
 - If the target battery charge level is lower than the current high voltage battery charge level, the battery is not charged.



Setting a battery discharging limit when using Vehicle to Load (V2L)

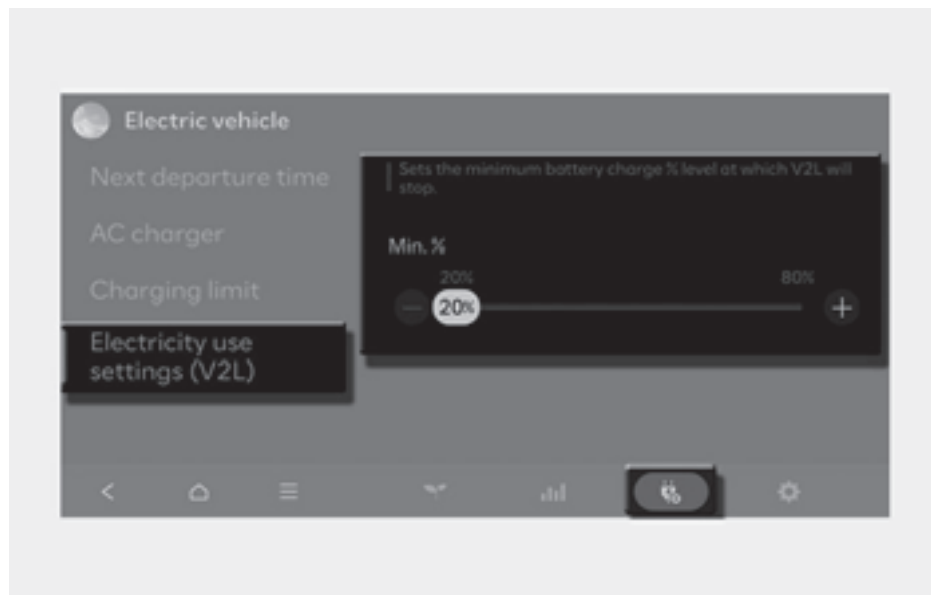
Setting battery discharging limit (%) can prevent the battery from discharging when operating home appliances or electronic devices using the high voltage battery.

- For more information about V2L function, refer to the "Using V2L function" section in this chapter.

i Information

V2L is the system that provides AC power using the high voltage battery for driving to operate several electronic devices. You can operate home appliances and electronic devices, or charge another electric vehicle in emergency using the charged electricity from the vehicle's battery while camping or doing other outdoor activities.

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** >  > **Electricity Use Settings (V2L)**.
3. Set the desired battery discharging limit (%).
 - The battery discharging limit can be set from 20 % to 80 %.
 - When the battery charge reaches the set battery discharging limit, V2L function cuts off automatically.



Setting electric vehicle specialized functions

You can set various EV specialized functions such as battery conditioning mode and utility mode.

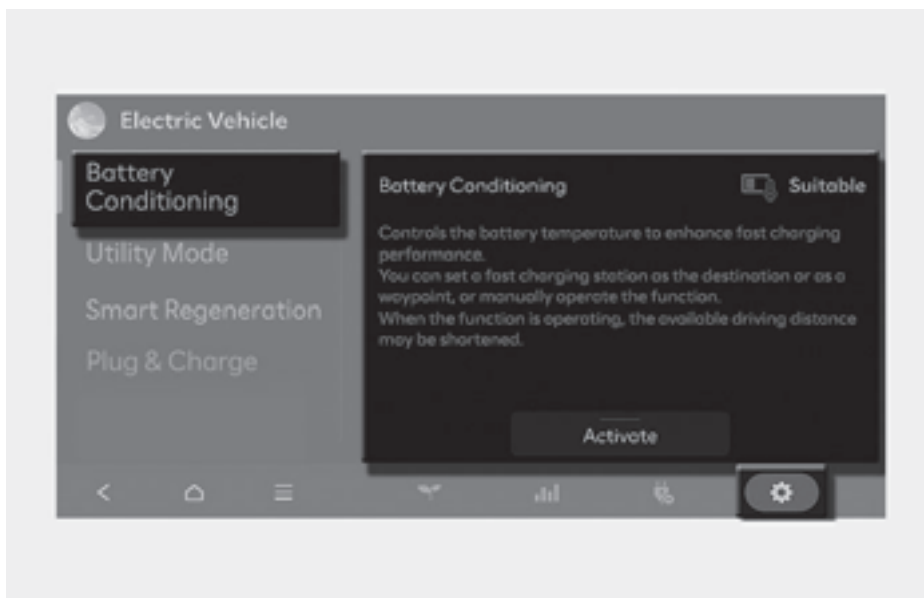
Using Battery Conditioning

If DC charging performance is likely to be impaired by the high-voltage battery's temperature being too high or too low, manually activate the Battery Conditioning function or link its operation to the navigation system to be able to achieve DC charging performance expected at room temperature.

Manual operation

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** > **⚙** > **Battery Conditioning** and select **Activate** to use manually.

The manual switch indicates the operating state of the battery conditioning mode and can be switched on and off by manipulating the switch.



Linked to navigation route

If you set a DC charging station as a destination or waypoint on your navigation, the Battery Conditioning function controls the battery temperature suitable for DC charging while considering the arrival time. This allows drivers to secure DC charging performance as at room temperature even during hot and cold weather.

i Information

- Battery Conditioning function operates only in a vehicle equipped with a battery heater.
- Battery Conditioning function does not operate to ensure driving distance when the battery charge level is low. The function also does not operate if the temperature of the battery is suitable for DC charging.
- Due to the energy used to adjust the temperature of a battery may shorten the driving distance. Reaching the suitable temperature of a battery requires time.
- When you are a member of Bluelink, you can control the Battery Conditioning function remotely while parking from the Bluelink app. In this case, the Battery Conditioning mode will end either when the battery temperature reaches the appropriate range or after 30 minutes.

Setting Utility mode

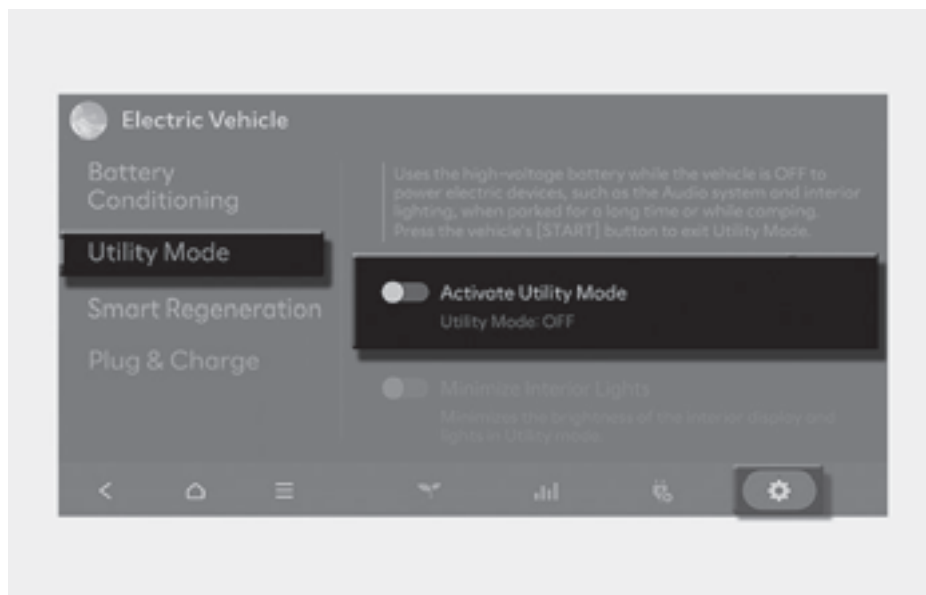
Utility mode allows the high voltage battery to be used instead of the 12 V battery for purposes other than driving. You can use the audio and lights of the vehicle without worrying about discharging the battery and even use the indoor V2L feature.

i Information

- You cannot drive the vehicle while the utility mode is activated, and the gear can only be shifted to P (Park).
- You can use every electric device in the vehicle while the utility mode is activated.
- When the utility mode is activated, the Electronic Parking Brake (EPB) is applied automatically and you can release EPB by pressing the EPB switch if necessary.

Follow the instructions below to set the utility mode.

1. Check the operation conditions of the utility mode.
 - Check if the **READY** indicator is displayed on the instrument cluster.
 - Check if the reducer is shifted to P (Park).
2. On the infotainment screen, move to Home screen.
3. Select **Electric Vehicle** > **⚙** > **Utility Mode**, and then select **Activate Utility Mode** to activate the function (Utility Mode: ON).



- The **READY** indicator turns off and the **UTIL** indicator illuminates on the instrument cluster and the EPB is applied.
- The utility mode can be deactivated by pressing the Start/Stop button to the OFF position.
- If you want to utilize the V2L feature in the vehicle while the utility mode is activated, refer to the "Using electricity inside the vehicle" in this chapter.

i Information

If the utility mode is not activated when the vehicle is in the ready mode (**READY** indicator ON) and the gear is shifted to P (Park), inspect the operation status of EPB.

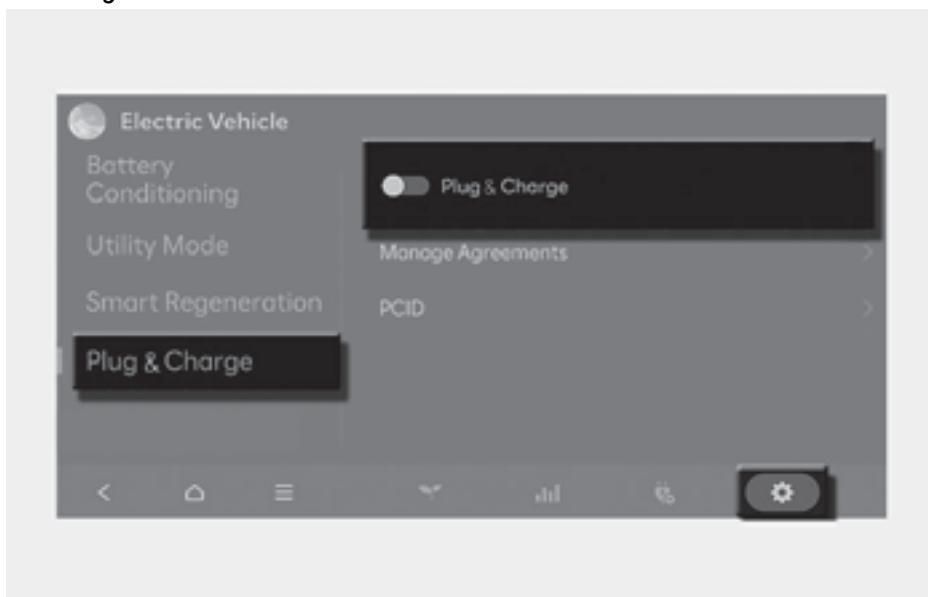
Using Plug & Charge (for Europe)

When charging with a DC charger, you can use the Plug & Charge function to charge your electric vehicle quickly and easily.

Setting the Plug & Charge

Follow the instructions below to charge your electric vehicle setting the Plug & Charge.

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric vehicle** > ⚙ > **Plug & Charge**, and then select **Plug & Charge** to turn on the function.



***i* Information**

If you do not have a Plug & Charge contract, turn off the Plug & Charge. If the function is turned on, problems with the charging process may occur.

Renewing the Plug & Charge

If the Plug & Charge does not proceed or fails during the process, check the expiration and renewal status of the contract certificate

- The Plug & Charge does not proceed if the certificate has expired.
- Turn off the Plug & Charge function and use an external payment method until you check the certificate status. If the Plug & Charge fails more than 2 times, the payment method is forcibly switched to an external payment method from the third attempt.

i Information

To reset and enable Plug & Charge again after the payment method is forcibly switched to an external payment method, follow one of the instructions below:

- Charge once using an external payment method. Plug & Charge is available from the next charge.
- Disconnect the charging plug, close the charging door, and wait at least 1 minute with the vehicle on.
- Use another charger that is Plug & Charge enabled.

If the contract certificate for the Plug & Charge has expired or withdrawn, follow the instructions below:

1. Make a new contract to issue or renew the certificate.
2. Connect the charging plug and try Plug & Charge once.
 - The charger displays the expiration and withdrawal status of the certificate and charging fails.
3. Disconnect and reconnect the charging plug and retry charging.
 - The newly contracted certificate is installed and charging proceeds normally.

Managing the Plug & Charge contract

If a new agreement certificate is installed, the **Manage Agreements** option becomes available. To see its details or manage it, follow the instructions below:

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric vehicle** > **⚙** > **Plug & Charge**, and then select **Manage Agreements**.
3. Check the contractor information and expiration date (year/month) displayed on the screen.
 - You can delete the certificate by pressing **Delete** if necessary.

Searching for nearby charging stations

Around the course, around the current site, around the selected destination or charging stations of interest is searched. If you choose the charging station, the detailed information is provided.

i Information

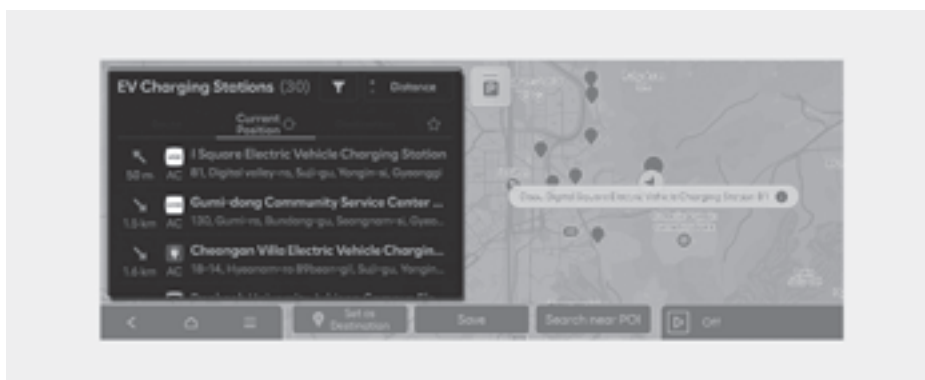
When you sign up for HYUNDAI Bluelink service, the available chargers at each charging station is displayed.

Follow the instructions below to search for nearby charging stations:

1. On the infotainment screen, move to Home screen.
2. On the Home screen, select **Electric Vehicle** > **≡** > **Charging Station List**.



- You can choose among "**Route**", "**Current Position**", "**Destination**", and "**Favorite**".
- The direction (arrow) and distance, charger type, address, and location on the map of the charging stations corresponding to the selected option are displayed on the right side of the screen.



3. Select the charging station on the list and check the detailed information.

Using V2L function

With the Vehicle to Load (V2L) feature, you can turn on electronic devices by connecting them to the high voltage battery.

Safety precautions when using the V2L function

Before using V2L function, carefully read all the safety information below and follow precisely. Failure to do so may cause electric shock or fire and result in a serious injury, death, malfunction in your vehicle or property damage.

Precautions when using the V2L function

WARNING

- Do not use the V2L function if the V2L connector, charging inlet, power plug, or cable is damaged, corroded, or rusted.
- Do not touch the V2L connector, charging inlet, or power plug with wet hands.
- Do not use the V2L function if the connection part of the V2L connector and the charging inlet is loose.
- Check if there is no water, dust, or other contaminants before connecting the connector and the plug. They may cause electric shock or fire.
- Do not put metal objects or bare hands to the V2L connector or charging inlet.
- For electric devices used outdoors in a vehicle, use a product with a waterproof function or use it in a waterproof environment. If rain or humidity intrude into electric devices, multi-outlets, extension cords, etc., it may cause electric shock or damage to the vehicle or the devices.
- If there is a risk of lightning, do not use the V2L function outside the vehicle.
- Do not use an electric heating appliances, such as an electric kettle, toaster, or iron in the vehicle. Doing so may result in a fire and injury.

CAUTION

When using the vehicle's outdoor V2L connector, power is also supplied to the vehicle's indoor power outlet. Unplug electrical appliances that are not in use from the indoor power outlet.

Precautions for operating the cooling fan

⚠ WARNING



When using the V2L, the cooling fan in the vehicle motor compartment can operate automatically even if the vehicle is turned off. Do not put your hand near the cooling fan in the V2L operating state.

Precautions for handling and using the V2L connector

⚠ CAUTION

- Do not remodel or disassemble the V2L connector. It may cause fire, electric shock, or injury. Damage to your vehicle caused by remodeling and disassembling is not covered by warranty.
- When the power plug is connected or disconnected to the V2L connector or open or close the connector cover of the V2L, be careful not to be scratched on the hand or other parts of the body.
- Be sure to disconnect the V2L connector from the vehicle when you are finished using V2L.
- Do not charge the vehicle using the V2L connector. If you charge the vehicle arbitrarily by remodeling the power cable of the connector, etc., it may damage the vehicle.
- Do not place objects on the V2L connector. It may damage the cable and cause electric shock or fire.
- Do not drop the V2L connector or give a strong impact to it. Keep it clean in a dry place without water or humidity.

Precautions when using electric/electronic products

CAUTION

- Before using the product, check the precautions and how to use the product referring to the product manual.
 - Only use products that have obtained national safety certification.
 - Only use an electric device that does not exceed the maximum power capacity that the vehicle can supply. However, some of the electric devices may not operate normally even if the product has power consumption less than the maximum power capacity provided by the vehicle.
 - Electric devices that require high power during initial operation.
 - Measuring devices that need to process accurate data.
 - Electric devices that are sensitive to Inverter type AC power supply.
 - Do not use products that require a continuous power supply, such as medical equipment. The power supply may be interrupted depending on the vehicle's condition.
 - The V2L discharging mode is blocked automatically in case of overheating. When the discharging mode is blocked, check whether the V2L connector or power plug is contaminated, worn, corroded or broken.
 - If the temperature falls to a proper level after it is left unattended, you can use it again.
 - If overheating repeats when using a certain electric device, do not use the electric device.
 - Do not connect more than two extension cords or multi-outlet. Also, when using the extension cable, make sure it is not twisted. Heat from the overlapped cable may cause fire.
 - Do not hang the home appliances onto the wire.
 - Do not use if the sheath of home appliance cables is damaged or broken.
 - Put the power plug fully when connecting to the power.
 - Only use the qualified plug with ground connection that meets the standard. Do not use worn, corroded, or broken plug or improper plug that does not meet the standard.
-

Using electricity outside the vehicle

Before using V2L function, carefully read all the safety information and precautions on "Safety precautions when using the V2L function" and follow the instructions.

Follow the instructions below to connect the V2L connector to the charging inlet on the vehicle and supply power to an electronic product.

1. Open the cover of the V2L connector.
2. Close the cover after connecting the plug of an electronic product to the power outlet of the connector.

WARNING

Some types of plugs may not fit into the outlet cover of the V2L connector, causing incomplete closing of the cover. Do not use the V2L connector on a rainy or snowy day if the outlet cover is not completely closed. There is a risk of fire and/or injury.

3. Open the connection terminal protection cap of the connector with the open switch pressed.
4. Open the charging door and connect the V2L connector to the charging inlet on the vehicle.
 - Connect the V2L connector to the charging inlet within 60 seconds after opening the charging door.
 - Time remaining until the battery level reaches the set value, and the distance to empty at the set value appears on the instrument cluster or the infotainment system.
5. Press the power switch of the V2L connector.
 - The power is supplied and the indicator on the V2L connector is turned on.

Information

- When the V2L connector is connected to the charging inlet of the vehicle, all doors and connectors will be automatically locked to prevent theft and separation. To disconnect the V2L connector, unlock the door and pull the connector with the open switch pressed.
- Before using the V2L function, deactivate the scheduled climate setting referring to the "Setting the options for the AC charger". The V2L function may be cut off depending on the scheduled climate setting.
- To check and change the V2L setting, refer to the "Setting a battery discharging limit when using Vehicle to Load (V2L)" section in this chapter.
- If an electric device that exceeds the maximum power capacity is connected, a warning message appears on the instrument cluster and the power supply shuts off immediately.

Using electricity inside the vehicle

You can connect home appliances or electric devices to the power outlet inside the vehicle and use them conveniently.



WARNING

Do not use an electric heating appliances like electric kettle, toaster, or iron in the vehicle. It may cause a fire and injury.

1. Press the Start/Stop button to the ON position or activate the **Utility Mode**.
 - For more information about the **Utility Mode**, refer to the "Setting Utility mode" in this chapter.



2. Open the power outlet cover by sliding it to the left, and connect the power plug of the electric device to the power socket.
 - Time remaining until the battery level reaches the set value, and the distance to empty at the set value appears on the instrument cluster or the infotainment system.

i Information

- The indicator on the power outlet indicates power supply status.



Indicator status	Description
Blue	Standby
Red	No power supply even the power outlet is connected.
Green	Normal power supply through the normal connection of the power outlet.

- V2L discharging mode shuts off if the vehicle is off using indoor V2L on the vehicle state of ON.
- Opening the charging door or connecting the V2L connector to the charging inlet, the V2L discharging mode shuts off.
- If you want to use the indoor and outdoor V2L simultaneously, firstly connect the V2L connector to the charging inlet and use the indoor V2L.
- When the high voltage battery charge level reaches the set discharging limit (%), the operation stops, and a warning message appears on the instrument cluster. If you want V2L operation, set the discharging limit (%) lower than the current battery charge.
 - For more information about the discharging limit, refer to the "Setting a battery discharging limit when using Vehicle to Load (V2L)" section in this chapter.
 - For more information about warnings, refer to the "Checking the warning and indicator lights" section in this chapter.

Solving V2L problems

If a problem occurs while using the V2L function, the V2L stops and a related message appears on the instrument cluster.

Check the cause of the message and take an appropriate measure referring to the table below.

Message	Cause	Measure
V2L finished. Defined charge level reached	The high voltage battery level reaches the discharging limit set level.	To use the V2L continuously, make the discharging limit set level lower than the present battery level. (Refer to the "Setting a battery discharging limit when using Vehicle to Load (V2L)" section in this chapter.)
Energy consumption too high. V2L canceled	An electrical appliance that exceeds the maximum power output the vehicle can supply is connected.	Check the total power consumption of the electrical appliance and use a product within the V2L maximum power output.
V2L conditions not met	V2L is stopped for the following reasons: • V2L connector switch off • V2L connector overheating • Opening the charging door while using the V2L indoor outlet	Make sure there are no problems with the V2L connector and the vehicle indoor outlet.

Driving your electric vehicle

Check how to use the devices inside the vehicle that you must know for driving, such as starting, braking, and shifting the electric vehicle.

Starting and stopping the vehicle

Follow the instructions below to start or stop the vehicle.

CAUTION

- Always fasten the seat belt before starting the vehicle for safety.
- Check if the EPB is applied before starting the vehicle.

Starting the vehicle

1. Holding the smart key, sit in the driver's seat.
2. Press the Start/Stop button while pressing the brake pedal.
 - On the instrument cluster, READY indicator is displayed.

Information

While the READY indicator is displayed, press the brake pedal, shift to D (Drive) or R (Reverse), and release the EPB and the brake pedal to start moving the vehicle forward or backward. You can start driving by pressing the accelerator pedal slowly and decelerate or stop by pressing the brake pedal.

Stopping the vehicle

1. Stop the vehicle completely by pressing the brake pedal.
2. Apply the EPB while pressing the brake pedal, and press the rotary shifter's **P** button to shift to P (Park).
3. Press the Start/Stop button.
 - The READY indicator on the instrument cluster turns off.

Information

There are other Start/Stop button positions besides the ON/OFF. Use it appropriately paying attention to the discharging of the 12 V battery.

- **ACC:** The 12 V battery power is turned on, allowing some devices, such as infotainment system and air conditioning system to operate. Press the Start/Stop button when it is in the OFF position to turn on ACC.
- **ON:** The 12 V battery power is turned on, allowing to check the instrument cluster and use all the electric devices inside the vehicle. Press the Start/Stop button when it is in the ACC position to turn it ON.

Understanding virtual engine sound system

Electric vehicles do not use an internal combustion engine, so there is no engine noise while driving. The Virtual Engine Sound System (VESS) generates engine sound to make pedestrians aware of the approaching vehicle when driving.

- If the vehicle is in the ready mode (READY indicator ON) and the gear is not in P (Park), the VESS is operated.
- When the gear is shifted to R (Reverse), an additional warning sound is heard.



CAUTION

- Be aware that the vehicle does not make engine noise while driving.
 - Pay attention to the surrounding environment and drive carefully.
 - After parking or waiting for a traffic light, please check around for children, or other obstacles before departure.
 - When reversing, check directly behind you before driving. Pedestrians may not be able to recognize vehicle sounds.
-

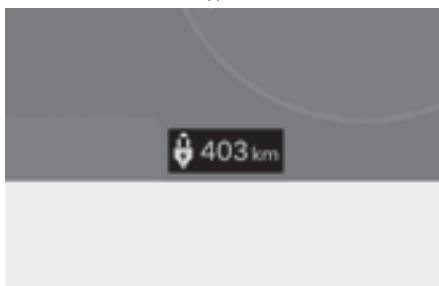
Checking electric vehicle driving information

During vehicle operation, the instrument cluster displays the main information, such as distance to empty, real-time energy status, battery charge level, and warning messages, via the user interface and indicators.

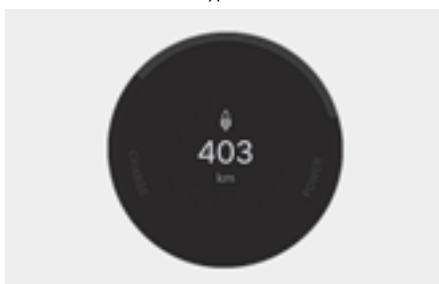
Factors affecting the distance to empty

The distance to empty refers to the distance that can be driven by the current charged battery level and is displayed on the bottom of the instrument cluster while driving the electric vehicle.

Type A



Type B



The distance to empty may vary depending on many factors such as driving habits, power usage, driving conditions, and high voltage battery. The distance to empty may be increased or decreased than the certified figures as it reflects all the factors comprehensively. Check the distance to empty considering the following:

- The driving habits: The driving speed and tendency of accelerating and decelerating. High-speed driving or frequent accelerating and decelerating reduces the distance to empty.
- The power usage: Additional power use, such as the air conditioner, heater, lamps, etc. As the power usage increases, the distance to empty reduces.
- The driving conditions: The weather, temperature, and terrain. If you drive in snow/rain/strong wind or low temperature, the distance to empty will be reduced. The distance to empty will also be reduced when driving uphill or on slippery or rough roads.

- The electric energy: Proportional to the State of Charge (SOC), but may vary depending on the battery temperature and the State of Health (SOH) of a battery.

Change in the distance to empty when 100 % charged

In case the distance to empty has been reduced due to learning of the driving habit or the driving conditions, you can increase the distance to empty again by continuously driving following the "Tips for enhancing the distance to empty".

- Resetting the previously learned driving patterns at the service center may increase the distance to empty displayed on the bottom of the instrument cluster, but it does not increase the actual distance to empty. The distance to empty may not be accurate until the learning proceeds.
- If the high voltage battery temperature is low in winter, the distance to empty reduces but it is not a permanent change. The distance to empty may increase again once the temperature rises.
- If you reduce the power usage, the distance to empty may increase.
- Natural degradation may occur with the high voltage battery depending on the number of years the vehicle is used. This may reduce the distance to empty.

When setting a destination

When the destination is set, the distance to empty may change because the distance to empty is recalculated using the information of the destination instead of the learned electric energy economy history.

***i* Information**

The distance to empty may vary significantly based on traffic conditions or driving speed.

Tips for enhancing the distance to empty

The distance to empty may vary depending on the charge level of the high voltage battery, weather, temperature, the duration of battery use, terrain, driving habits, etc. You can increase the distance to empty by driving the vehicle following the instructions below.

- The air resistance increases rapidly as the electric vehicle drives faster, so avoid speeding to increase the distance to empty and the electric energy economy.
- Rapid acceleration consumes a lot of driving energy and rapid deceleration limits the regenerative braking. Gradually depress and release the accelerator pedal when accelerating or decelerating to maintain speed.
- If you operate the air conditioner or heater too much, the high voltage battery uses excessive electricity. This may reduce the distance to empty. Therefore, set the cabin temperature to 22 °C (71.6 °F) AUTO level 2. Especially in winter, reducing heating and using heated seats instead can significantly increase the distance to empty. Turn off the air conditioner or heater if you do not need them.
- When using the air conditioner or heater, the energy consumption is reduced if recirculation mode is selected instead of fresh mode. Fresh mode requires a large amount of energy consumption as the outside air has to be reheated or cooled.
- Close the windows while driving. Driving with the windows open increases air resistance and the usage of the air conditioner or heater.
- When using the air conditioner or heater while driving alone, use the DRIVER ONLY function.
- Always maintain specified tire pressures and use tires for electric vehicles.
- Do not use unnecessary electrical components while driving.
- Do not load unnecessary items in the vehicle.
- Do not mount parts that may increase air resistance.

When the distance to empty is insufficient

- When the battery warning indicator is displayed, immediately charge the vehicle at a nearby charging station.
- Drive energy efficiently following the "Tips for enhancing the distance to empty."
- When the battery level is 0 %, do not try to drive. Move to a safe place and call for help.

Checking the real-time energy status (CHARGE/POWER gauge)

The CHARGE/POWER gauge displays the charging and discharging status of the electric energy produced by the regenerative braking and the energy consumption of the electric motor.

Type A



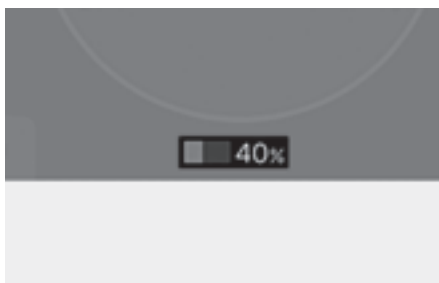
Type B



- **CHARGE:** Shows the charging status of the electric motor when vehicle is decelerating or driving on a downhill road (being charged by the regenerative brakes). The more electric energy is charged, the lower the gauge level.
- **POWER:** Shows discharging status of the electric motor when vehicle is accelerating or driving on an uphill road. The more electric energy is discharged (used), the higher the gauge level.

Checking the State of Charge (SOC)

The SOC indicator is displayed at the bottom of the CHARGE/POWER gauge and shows the charge level of the high voltage battery as a percentage. The lower the number, the more the vehicle needs to be charged, and 100 % indicates a full charge.



- When the remaining battery of the high voltage battery is lower than 10 %, the warning light is displayed.
- When the warning light is displayed, charge the vehicle.

***i* Information**

- To find a nearby charging station, refer to the "Searching for nearby charging stations" section in this chapter.
- Check if the SOC is enough before driving on highways or motorways.
- After the warning light is displayed, immediately charge the vehicle at a nearby charging station. The vehicle may not operate properly depending on the driving speed, weather, and other driving conditions.

Checking the warning and indicator lights

The warning and indicator lights are displayed in the middle of the instrument cluster before or while driving, depending on the status of the electric vehicle. Understand the meaning of the warning and indicator lights referring to the instructions below and drive safely.

CAUTION

If the warning light illuminates while driving or does not go off, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Checking the warning lights

Check the cause of the warning lights referring to the table below and take appropriate measures.

Warning light	Cause	Measure
Service warning light 	This warning light illuminates: • When there is a problem with related parts of the electric vehicle control system, such as sensors, etc. • When an actuator, electric compressor for air conditioning, etc. malfunctions.	In a normal condition, it illuminates for about 3 seconds when the Start/Stop button is in the ON position and then goes off. • When the warning light illuminates while driving, or does not go off after starting the vehicle, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
Power down indicator light 	This warning light illuminates: • When the high voltage battery level is too low or voltage is decreasing. (Output limit occurs when the charge level is insufficient.) • When the temperature of the high voltage battery is too high or too low. • When the driving system temperature is overheated and requires protection.	If it illuminates alone, it is not a failure. • If both power down indicator light and service warning light illuminate at the same time, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer. • When the indicator is illuminating, immediately charge the vehicle. The driving speed may be limited and the vehicle may not properly drive uphill.
High voltage battery level warning light 	This warning light illuminates when the high voltage battery level is low.	Immediately charge the vehicle. The vehicle can drive an additional 30-50 km. • The actual distance to empty depends on the driving conditions.
Regenerative brake warning light 	This warning light illuminates when the regenerative brake does not operate and the brake does not perform well due to the malfunction of the brake system.	We recommend that your vehicle be inspected and repaired by an authorized HYUNDAI dealer • The operation of the brake pedal may feel deeper than normal or the braking distance may increase.

Checking the indicator lights

Check the meaning of the indicator lights referring to the table below and take appropriate measures if necessary.

Indicator light	Meaning
Charging indicator light 	Indicates the charging connector is connected to the high voltage battery. When the charging connector is connected, it turns green.
Ready indicator READY	Illuminates when the electric vehicle is ready to be driven, and indicates that the vehicle is operable. - When the vehicle malfunctions, the indicator goes off or blinks. - If the indicator is turned off or blinks, we recommend that your vehicle be inspected and repaired by an authorized HYUNDAI dealer.

Checking warning messages

Check the meaning of the warning messages referring to the table below and take appropriate measures.

WARNING

- Do not drive with a warning message displayed.
- If a warning message does not go off after taking measures, we recommend that you have the vehicle immediately inspected and repaired by an authorized HYUNDAI dealer.

Warning message	Cause	Measure
Low EV charge	The high voltage battery level reaches below 10 %. The (🔋) warning light on the instrument cluster turns on simultaneously.	Charge the vehicle immediately.
Charge immediately. Power limited	The high voltage battery level reaches below 5 %. - The (🔋) warning light on the instrument cluster turns on simultaneously. - The vehicle's power may be reduced to minimize the energy consumption of the high voltage battery.	Charge the battery immediately.
Check electric vehicle system	There is a problem with the electric vehicle control system.	- Do not drive when the warning message is displayed. - We recommend that you immediately tow the vehicle to an authorized HYUNDAI dealer and have it inspected and repaired.
Power limited	This warning message is displayed when the power of the vehicle is limited to ensure the safety of high-powered components for the reasons below: - The high voltage battery level is too low or voltage is decreasing. - The temperature of the high voltage battery is too high or too low. - When the driving system is overheated and requires protection.	If it illuminates alone, it is not a failure. - Charge the vehicle if the charge level is low. - If both power down indicator light and service warning light illuminate at the same time, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer. - Do not accelerate or start the vehicle suddenly when the warning message is displayed. - Be careful when the power down indicator is displayed. The vehicle may not properly drive uphill and roll back on a slope.

Warning message	Cause	Measure
Low EV battery temp. Power limited.	If you start or turn off the vehicle when the outside temperature is low, warning message is displayed to protect electric vehicle system. If the high voltage battery charge level is low and parked outside for a long time, vehicle power could be limited due to the low battery temperature.	- Charging the battery before driving helps increase power. - If this warning message is still displayed even after the ambient temperature has increased, we recommend that your vehicle be inspected and repaired by an authorized HYUNDAI dealer.
EV Battery Overheated! Stop vehicle	The high voltage battery temperature is too high.	- Stop the vehicle in a safe place and turn off the Start/Stop button and wait until the battery temperature decreases. - If this warning message is still displayed even after turning off the vehicle and waiting for a sufficient time, we recommend that you immediately tow the vehicle to an authorized HYUNDAI dealer for inspection and repair.
Stop vehicle and check power supply	A failure occurs in the power supply system.	Immediately stop the vehicle in a safe place. We recommend that you tow the vehicle to an authorized HYUNDAI dealer for inspection and maintenance.
Unplug vehicle to start	You started the vehicle with the charging connector plugged in.	Unplug the charging cable and start the vehicle.
Charging door open	You started the vehicle with the charging door opened.	Check if the charging door is completely closed after charging the vehicle.
Charging stopped. Please check the AC(DC) charger	This warning message is displayed when charging is stopped for the reasons below: - There is a problem with the external AC charger or DC charger. - The external AC charger stopped the charging. - The charging cable is damaged.	- Check whether there is any problem with the external AC or DC charger and charging cable. - Charge the vehicle with an AC charger that has been approved for proper operation or a genuine HYUNDAI portable charger (if equipped). - If the same problem occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Warning message	Cause	Measure
Charging Stopped. Check the cable connection.	These warning message is displayed when charging is stopped for the reasons below: • The charging connector is not correctly connected to the charging inlet. • The unlock button on the charging connector is pressed.	• Separate the charging connector from the vehicle and reconnect it. • Check whether there is any problem, such as external damage, foreign substances, etc., with the charging connector and charging inlet. • Charge the vehicle with a charger that has been approved for proper operation or a genuine HYUNDAI portable charger (if equipped). • If the same problem occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Countermeasures for accidents or fire

When an accident occurs while driving the electric vehicle, turn on the hazard warning flasher, move the vehicle to a safe place, and do not let other people approach the site.

WARNING

When an accident occurs, and the high voltage battery is damaged, harmful gas and electrolytes may leak.

- Be careful not to touch the leaked liquid.
- When you suspect leakage of inflammable gas and other harmful gases, open the windows and immediately evacuate to a safe location.
- If any leaked fluid comes in contact with your eyes or skin, immediately clean the affected area thoroughly with tap water or saline solution and have doctors inspect it as soon as possible.

If the electric vehicle catches fire

If a fire occurs, evacuate to a safe place and do not let other people approach the site.

- Contact the fire department, report an electric vehicle fire, and then follow its instructions.

CAUTION

- If a fire occurs, evacuate to a safe place and wait until the firefighters arrive.
- If the lower part of the vehicle where the high voltage battery is located catches fire, large amount of water must be supplied continuously for a long time to completely extinguish the fire. It is hard to extinguish the fire without sufficient water and appropriate fire extinguishers. If you approach the vehicle carelessly, it may cause accidents, such as electric shock, and result in serious injury.

If the electric vehicle is submerged

If the electric vehicle is submerged while driving, follow the instructions below:

- Immediately turn off the vehicle and evacuate to a safe place with your key.
- Contact the emergency rescue service such as a fire department, or an authorized HYUNDAI dealer.

WARNING

Never touch the submerged electric vehicle. This may lead to an accident such as an electric shock or fire.

If the electric vehicle needs towing

If towing is required, lift all wheels to tow. Towing with the wheels on the ground may damage the vehicle's motor components.



CAUTION

Contact the fire department when towing the vehicle after a fire. When a vehicle fire occurs due to the battery, there is a risk of a second fire.



[A]Dollies



Other precautions for electric vehicle accidents

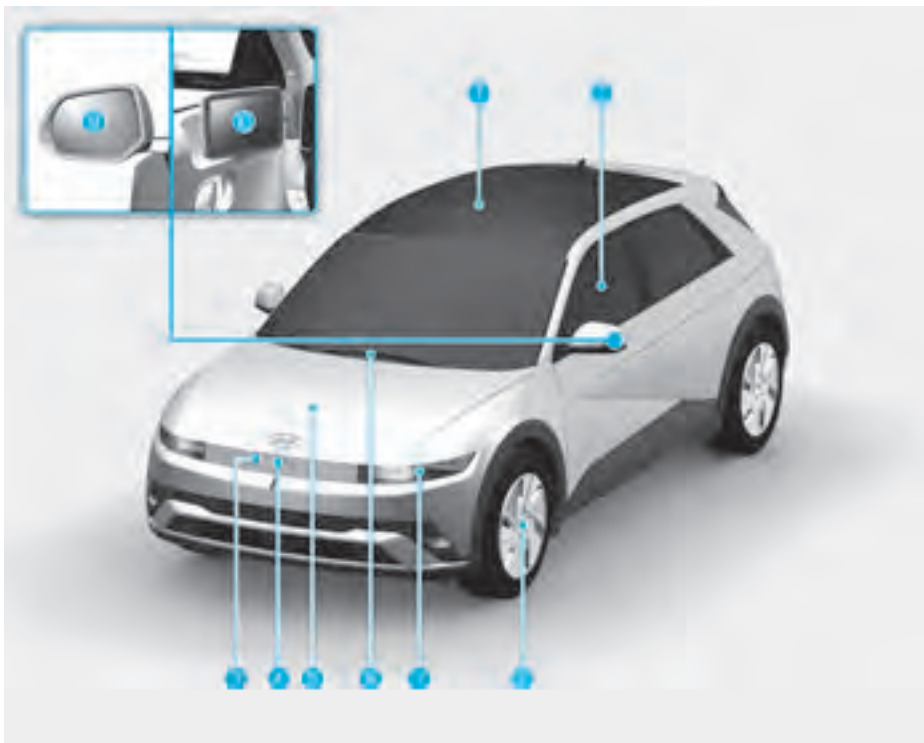
CAUTION

- Be extremely cautious for electricity safety. An electric shock accident may occur due to a short circuit in high voltage power.
- When you paint or apply heat treatment to the vehicle as a result of an accident, the performance of the high voltage battery can be reduced. If heat treatment is required, we recommend that you contact an authorized HYUNDAI dealer.
- Use or install only genuine parts. Third-party parts or modified parts may damage the electric power system

2. Vehicle information

Exterior overview (Front view).....	2-2
Exterior overview (Rear view).....	2-3
Interior overview (Left-hand drive)	2-4
Interior overview (Right-hand drive).....	2-4
Center console overview (Left-hand drive).....	2-8
Center console overview (Right-hand drive)	2-6
Steering wheel control overview.....	2-8
Motor compartment overview	2-9
Dimensions	2-10
Electric vehicle specifications	2-10
Bulb wattage	2-11
Tires and wheels	2-12
Load and speed capacity tires (for europe).....	2-17
Air conditioning system	2-12
Vehicle weight and luggage volume	2-14
Available front trunk weight	2-14
Recommended lubricants and capacities	2-15
Vehicle Identification Number (VIN)	2-16
Vehicle certification label	2-17
Tire specification and pressure label	2-18
Motor number	2-19
Air conditioner compressor label	2-20
Refrigerant label	2-20
Declaration of conformity	2-20
Importer information (for Europe)	2-23
Open source software notice	2-20
.....	2-21
Manufacturer Information for Antenna	2-25

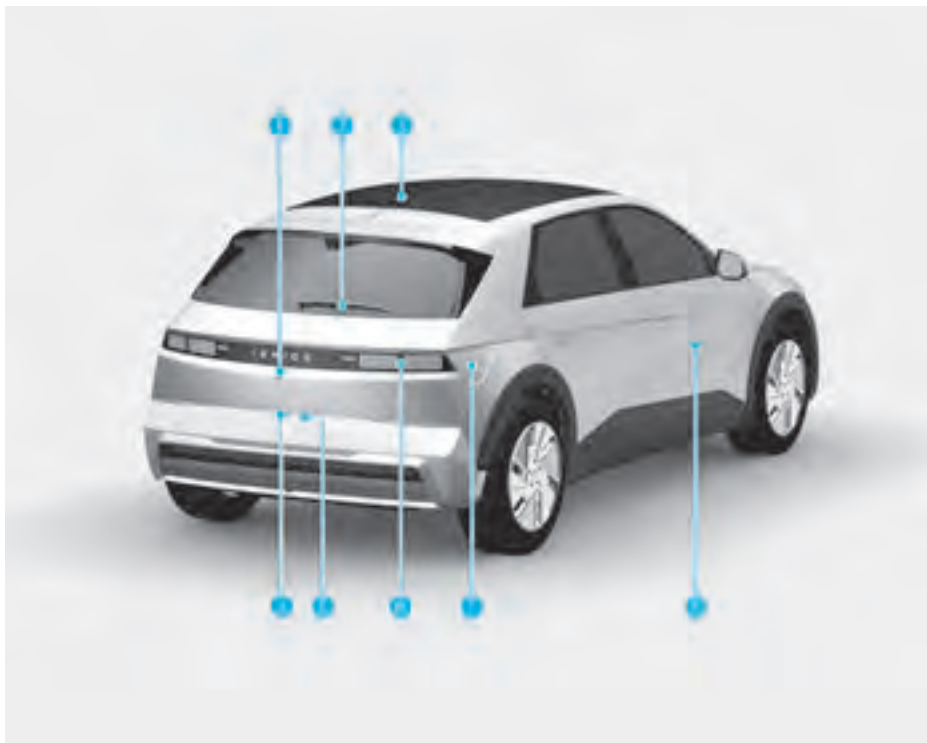
Exterior overview (Front view)



The actual shape may differ from the illustration.

(1) Vision roof	5-80
(2) Windows.....	5-74
(3) Front radar	7-4
(4) Wide-front view camera	7-144
(5) Hood	5-83
(6) Front windshield wiper blades	5-119, 9-20
(7) Headlight.....	9-57
(8) Tires and wheels	9-27
(9) Outside rearview mirror	5-63
(10) Digital side mirror	5-67

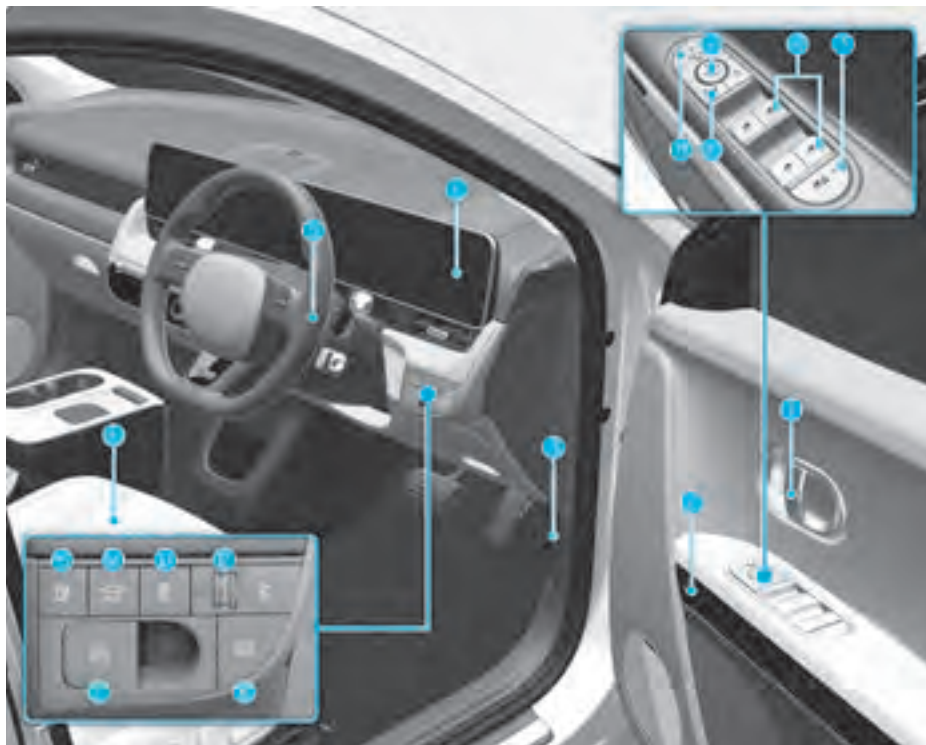
Exterior overview (Rear view)



The actual shape may differ from the illustration.

(1) Tailgate	5-85
(2) Rear window wiper blade	5-119, 9-20
(3) Antenna	5-159
(4) Wide-rear view camera	7-144
(5) Tailgate open/close button.....	5-88
(6) Rear combination light.....	9-63
(7) Electric charging door	5-95
(8) Door	5-30

Interior overview (Right-hand drive)

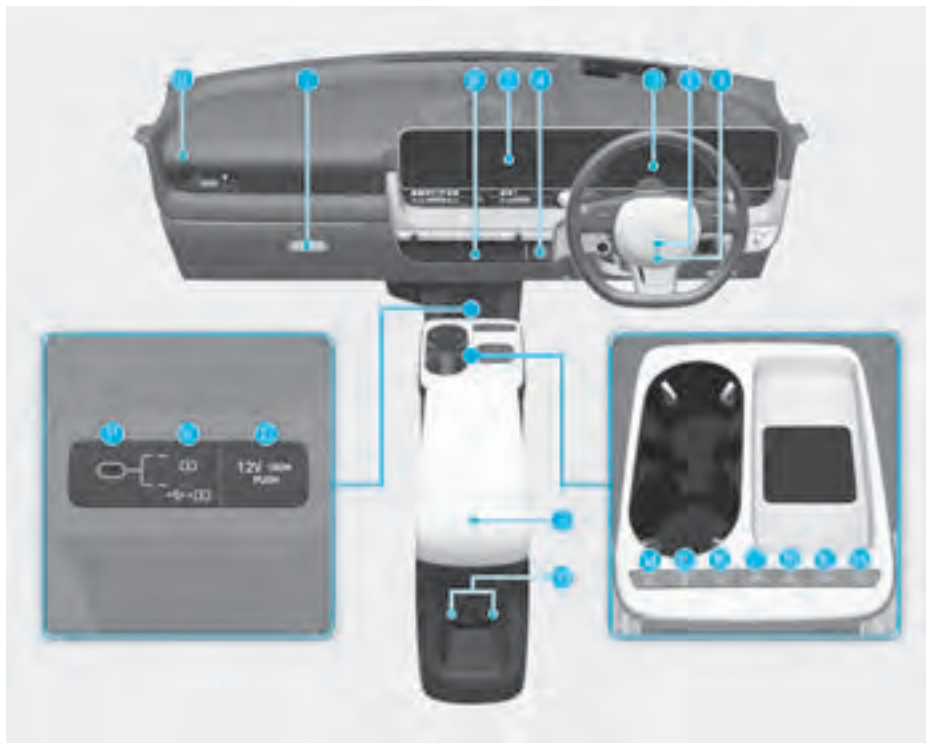


The actual shape may differ from the illustration.

(1) Inside door handle	5-34
(2) Integrated memory system	5-45
(3) Hood release lever	5-83
(4) Cluster fascia side panel	5-151
(5) Steering wheel	5-50
(6) Seat	3-4
(7) Power window lock button/Electronic child safety lock button	5-78, 5-38
(8) Power window switches	5-74
(9) Outside rearview mirror control switch	5-64
(10) Central door lock switch	5-35
(11) Outside rearview mirror folding button	5-64
(12) Headlamp leveling device	5-106
(13) ESC (Electronic Stability Control) OFF button	6-40
(14) Power tailgate open/close button	5-87

(15)Electric charging door open button	5-95
(16)AUTO Hold button	6-36
(17)EPB (Electronic Parking Brake) switch	6-32

Center console overview (Right-hand drive)

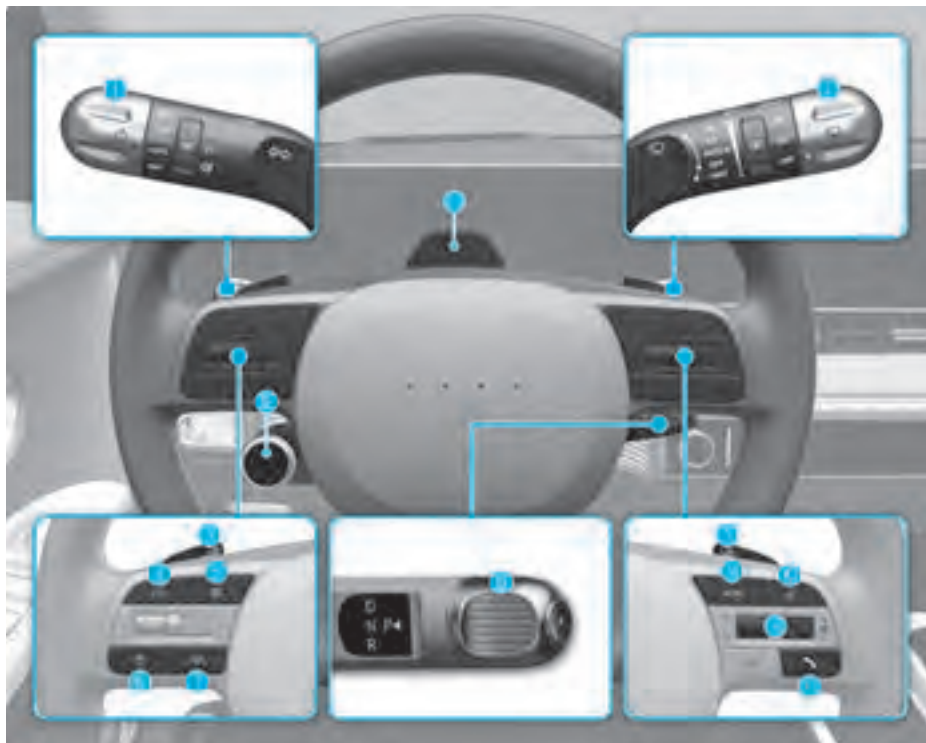


The actual shape may differ from the illustration.

(1) Driver's front airbag	3-57
(2) Horn	5-52
(3) Instrument cluster	4-2
(4) Start/Stop button	6-5
(5) Infotainment system	5-158
(6) Automatic climate control system	5-124
(7) Glove box	5-147
(8) Passenger's front airbag.....	3-57
(9) Center console.....	5-146
(10)Rear seat USB charger	5-150
(11) USB port	5-158
(12)USB port/charger convert button	5-158
(13)Power outlet.....	5-149
(14)Air ventilation seat.....	3-25

(15)Seat warmer	3-23
(16)Heated steering wheel	5-52
(17)Parking/View button	7-139
(18)Parking Safety button.....	7-178

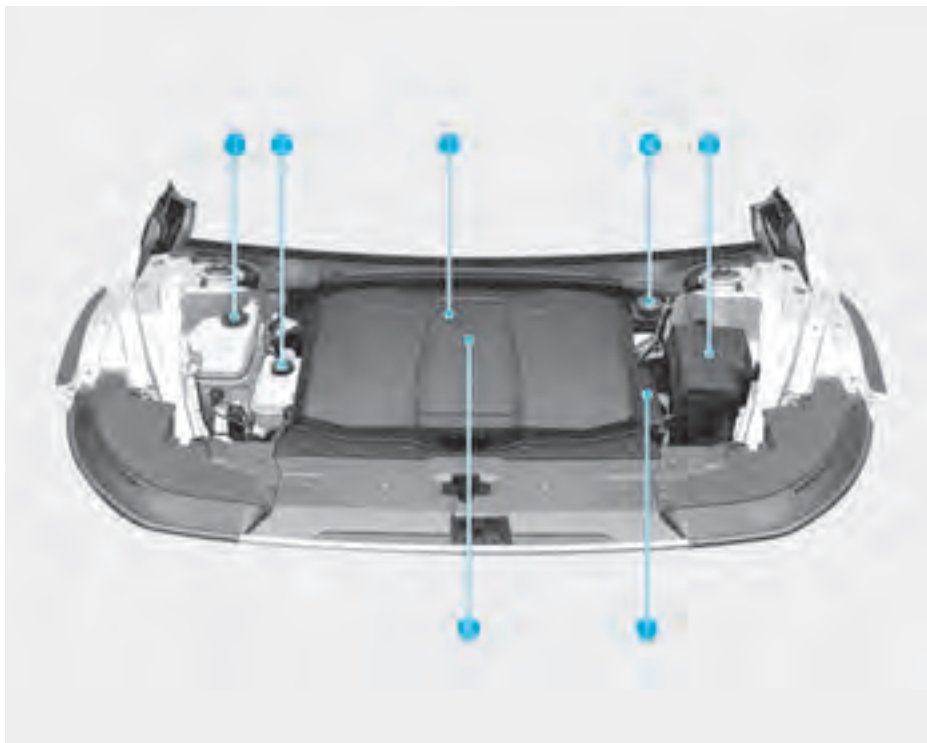
Steering wheel control overview



The actual shape may differ from the illustration.

(1) Lighting control lever	5-102
(2) Wiper and washer control lever.....	5-119
(3) Paddle shifter.....	6-18
(4) Driving Assist button	7-96
(5) LCD display control	4-29
(6) Vehicle Distance button.....	7-96
(7) Lane Driving Assist button	7-35
(8) Rotary shifter (Rotary gear shift dial)	6-11
(9) Steering wheel audio controls	5-159
(10)Voice recognition button	5-160
(11) Bluetooth wireless technology hands-free button	5-160
(12)Drive mode button	6-53
(13)In-Cabin camera	7-86

Motor compartment overview



The actual motor compartment in the vehicle may differ from the illustration.

(1) Windshield washer fluid reservoir	9-17
(2) Coolant reservoir	9-13
(3) Cabin air filter	9-18
(4) Brake fluid reservoir	9-16
(5) Fuse box	9-38
(6) Front trunk	5-84
(7) Battery (12 volt)	9-23

Dimensions

Items		mm (in.)	
Overall length		4,655 (183.27)	
Overall width		1,890 (74.41)	
Overall height	Roof panel	1,605 (63.19) *1 /1,625 (62.98) *2	
	Shark antenna	1,645 (64.76) *1 /1,665 (65.55) *2	
Tread	Tire size	Front	Rear
	19 in	1,638 (64.49)	1,647 (64.84)
	20 in	1,628 (64.09)	1,637 (64.45)
Wheelbase		3,000 (118.11)	

*1: Except India

*2: For India

Electric vehicle specifications

Items		Standard	Long range	
		2WD	2WD	4WD
Motor	Max. output (kW)	Rear 125	Rear 168	Front 74 + Rear 165
	Max. torque (Nm)	Rear 350	Rear 350	Front 255 + Rear 350
Battery (Lithium-ion)	Capacity (kWh)	63	84	84
	Power output (kW)	195	277	277
	Voltage (V)	523	697	697
Charger (OBC: On-Board Battery Chargers)	Max. input (kW)	Single-phase: 7.4 (@230Vac) Three-phase: 11 (@230Vac)		

Bulb wattage

Light bulb			Bulb type	Wattage
Front	Headlight	Low	LED	LED
		High	LED	LED
	Turn signal light		STD: PY21W OPT: LED	STD: 21W OPT: LED
	Position light		LED	LED
	Daytime Running Light (DRL)		LED	LED
	Front garnish lamp		LED	LED
	Front trunk lamp		LED	LED
Rear	Stop light		LED	LED
	Tail light		LED	LED
	Turn signal light		STD: PY21W OPT: LED	STD: 21W OPT: LED
	Reverse light		STD: P21W OPT: LED	STD: 21W OPT: LED
	License plate light		LED	LED
	Fog light		LED	LED
	High mounted stop light		LED	LED
Interior	Front seat map and room lamp		LED	LED
	Rear seat room lamp (without vision roof)		LED	LED
	Rear seat personal lamp (with vision roof)		LED	LED
	Vanity mirror lamp		LED	LED
	Glove box lamp		LED	LED
	Door mood lamp		LED	LED
	Cargo area lamp		LED	LED

Tires and wheels

Items	Tire size	Wheel size	Inflation pressure kPa (psi)				Wheel lug nut torque kgf-m (lbf-ft,N-m)
			Normal load		Maximum load		
			Front	Rear	Front	Rear	
Full size tire	235/55R19	7.5J X 19	250 (36)	250 (36)	260 (38)	290 (42)	11~13 (79~94, 108~127)
	255/45R20	8.5J X 20					

NOTICE

- It is permissible to add 20 kPa (3 psi) to the standard tire pressure specification if colder temperatures are expected soon.
Tires typically lose 7 kPa (1 psi) for every 7 °C (12 °F) temperature drop. If extreme temperature variations are expected, recheck your tire pressure as necessary to keep them properly inflated.
- Tire inflation pressures may differ depending on changes in elevation (about 10 kPa (2.4 psi) for every 1 km (1 mi.) elevation change). If driving in areas of higher or lower elevation, be sure to check and adjust for proper tire inflation.
- Do not exceed the maximum inflation pressure, as found on the sidewall of the tire(s).

⚠ CAUTION

When replacing tires, ALWAYS use the same size, type, brand, construction and tread pattern supplied with the vehicle. If not, it can damage the related parts or make it work irregularly.

Air conditioning system

Item			Weight of volume	Classification
Refrigerant	Type A	Heat pump	900±25g (32±0.9 oz.)	R-1234yf
		Without heat pump	700±25g (25±0.9 oz.)	
	Type B	Heat pump	950±25g (34±0.9 oz.)	R-134a
		Without heat pump	750±25g (26±0.9 oz.)	

Item		Weight of volume	Classification
Compressor lubricant	Heat pump	180±10 g (6.35±0.35 oz.)	POE J639
	Without heat pump	150±10 g (5.29±0.35 oz.)	

We recommend that you contact an authorized HYUNDAI dealer for more details.

Vehicle weight and luggage volume

Gross vehicle weight		Luggage volume
Standard	Long range	
2WD: 2,470 kg (5,445 lbs.)	2WD: 2,590 kg (5,710 lbs.) 4WD: 2,685 kg (5,919 lbs.)	520 ℓ (18.4 cu ft)

Available front trunk weight

2WD	4WD
25 kg (55 lbs.)	10 kg (25 lbs.)

Available front trunk weight depends on the specifications.

Recommended lubricants and capacities

To help achieve proper vehicle performance and durability, use only lubricants of the proper quality.

These lubricants and fluids are recommended for use in your vehicle.

Lubricant			Volume		Classification
Reducer fluid		2WD	Rear	3.4~3.5 ℓ (3.6~3.7 US qt.)	HK ATF 65 SP4M-1
		4WD	Front	3.2~3.3 ℓ (3.4~3.5 US qt.)	
			Rear	3.4~3.5 ℓ (3.6~3.7 US qt.)	
Motor coolant	Standard	with heat pump	2WD	4.0 ℓ (4.2 US qt.)	Mixture of antifreeze and water (Phosphate-based Ethylene glycol coolant for aluminum radiator)
		without heat pump			
	Long range	with heat pump	2WD	4.0 ℓ (4.2 US qt.)	
			4WD	4.3 ℓ (4.5 US qt.)	
		without heat pump	2WD	4.0 ℓ (4.2 US qt.)	
			4WD	4.3 ℓ (4.5 US qt.)	
High-vol tage battery coolant	Standard	with heat pump	2WD	10.4 ℓ (11.0 US qt.)	
		without heat pump		9.8 ℓ (10.3 US qt.)	
	Long range	with heat pump	2WD	12.1 ℓ (12.8 US qt.)	
			4WD	12.1 ℓ (12.8 US qt.)	
		without heat pump	2WD	11.4 ℓ (12.0 US qt.)	
			4WD	11.6 ℓ (12.2 US qt.)	
Brake fluid			As required		SAE J1704 DOT-4 LV, FMVSS 116 DOT-4, ISO 4925 CLASS-6

Vehicle Identification Number (VIN)

Frame number



The vehicle identification number (VIN) is the number used in registering your vehicle and in all legal matters pertaining to its ownership, etc.

The number is punched on the floor under the right front seat. To check the number, open the cover.

VIN label (if equipped)



The VIN is also on a plate attached to the top of the left side dashboard. The number on the plate can easily be seen through the windshield from outside.

Vehicle certification label



The vehicle certification label attached on the driver's (or front passenger's) side center pillar gives the vehicle identification number (VIN).

Tire specification and pressure label



The tires supplied on your new vehicle are chosen to provide the best performance for normal driving.

The tire label located on the driver's side center pillar gives the tire pressures recommended for your vehicle.

Motor number

2WD/4WD

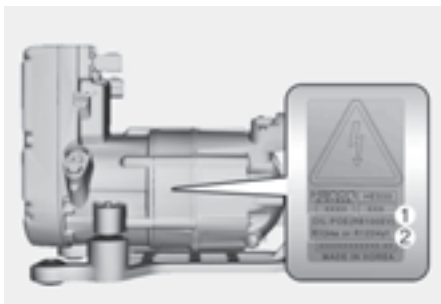


4WD



The motor numbers can be checked at the bottom of the vehicle.

Air conditioner compressor label



A compressor label informs you the type of compressor your vehicle is equipped with such as model, supplier part number, production number, refrigerant (1) and refrigerant oil (2).

Refrigerant label

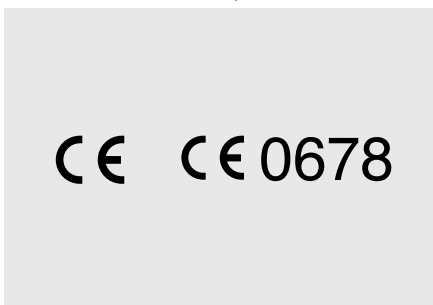


The refrigerant label provides information such as refrigerant type and amount.

Declaration of conformity

 if equipped

Example



The radio frequency components of the vehicle comply with requirements and other relevant provisions of Directive 1995/5/EC.

Further information including the manufacturer's declaration of conformity is available on HYUNDAI web site as follows;

<http://service.hyundai-motor.com>

Open source software notice

This vehicle contains software with open source licenses. Open source software information including the source code, copyright notices and referred license terms may be obtained on the website <https://www.hyundai.com/worldwide/opensource>

HYUNDAI Motor Company will provide the open source code to you in storage medium such as CD-ROM for minimum charge covering the cost of performing source distribution upon email request to opensource@hyundai.com within a period of 3 years from the date of product purchase.

i Information

For your safety, please follow the instructions and safety information below.

- Use the product only for the specified tires of the specified vehicle. Using for other tires or vehicle can cause damage of battery, malfunction or poor performance.
- For reasons of safety and for optimal function, any mounting or demounting to tire operation should be done by your dealer.

If this is not followed, a damage of battery or malfunction or poor performance can occur.

- The battery used cannot be replaced or charged.
- Please do not disassemble this product or throw it into fire.
- After using this product, please confirm local regulations for proper battery disposal instruction.

i Information



This product must not be treated as household waste.

3. Seats & Safety system

Important safety precautions	3-2
Always wear your seat belt.....	3-2
Restrain all children	3-2
Airbag hazards.....	3-2
Driver distraction	3-2
Never drink or take drugs and drive	3-3
Control your speed	3-3
Keep your vehicle in safe condition.....	3-3
Seats	3-4
Safety precautions	3-6
Front seats	3-7
Rear seats	3-15
Headrest	3-19
Seat warmers	3-23
Air ventilation seats	3-25
Seat belts.....	3-26
Seat belt safety precautions	3-26
Seat belt warning light.....	3-27
Seat belt restraint system.....	3-29
Additional seat belt safety precautions.....	3-34
Care of seat belts	3-37
Child Restraint System (CRS)	3-38
Our recommendation: Children at middle position	3-38
Selecting a Child Restraint System (CRS)	3-39
Installing a Child Restraint System (CRS)	3-40
Airbag - supplemental restraint system.....	3-52
SRS Components	3-54
Where are the airbags?.....	3-55
How does the airbags system operate?	3-61
What to expect after an airbag inflates	3-64
Do not install a Child Restraint System on the front passenger seat.....	3-65
SRS warning light	3-65
Why didn't my airbag go off in a collision?	3-66
SRS care.....	3-70
Additional safety precautions	3-71
Airbag warning labels	3-71

Important safety precautions

You will find many safety precautions and recommendations throughout this section, and throughout this manual. The safety precautions in this section are among the most important.

Always wear your seat belt

A seat belt is your best protection in all types of accidents. Airbags are designed to supplement seat belts, not to replace them. So even though your vehicle is equipped with airbags, **ALWAYS** make sure you and your passengers wear your seat belts, and wear them properly.

Restrain all children

All children under age 13 should ride in your vehicle properly restrained in a rear seat, not the front seat. Infants and small children should be restrained in an appropriate Child Restraint System. Larger children should use a booster seat with the lap/shoulder belt until they can use the seat belt properly without a booster seat.

Airbag hazards

While airbags can save lives, they can also cause serious or fatal injuries to occupants who sit too close to them, or who are not properly restrained. Infants, young children, and short adults are at the greatest risk of being injured by an inflating airbag. Follow all instructions and warnings in this manual.

Driver distraction

Driver distraction presents a serious and potentially deadly danger, especially for inexperienced drivers. Safety should be the first concern when behind the wheel and drivers need to be aware of the wide array of potential distractions, such as drowsiness, reaching for objects, eating, personal grooming, other passengers, and using cellular phones.

Drivers can become distracted when they take their eyes and attention off the road or their hands off the wheel to focus on activities other than driving. To reduce your risk of distraction and an accident:

- Set up your cellular devices (for example, MP3 players, phones, navigation units, etc.) **ONLY** when your vehicle is parked or safely stopped.
- **ONLY** use your cellular device when allowed by laws and conditions permit safe use. **NEVER** text or email while driving. Most countries have laws prohibiting drivers from texting. Some countries and cities also prohibit drivers from using handheld phones.
- **NEVER** let the use of a cellular device distract you from driving. You have a responsibility to your passengers and others on the road to always drive safely, with your hands on the wheel as well as your eyes and attention on the road.

Never drink or take drugs and drive

Drinking alcohol or taking drugs can reduce your ability to respond to changing conditions and emergencies. Do not drink or take drugs and drive, and do not let your friends drink or take drugs and drive.

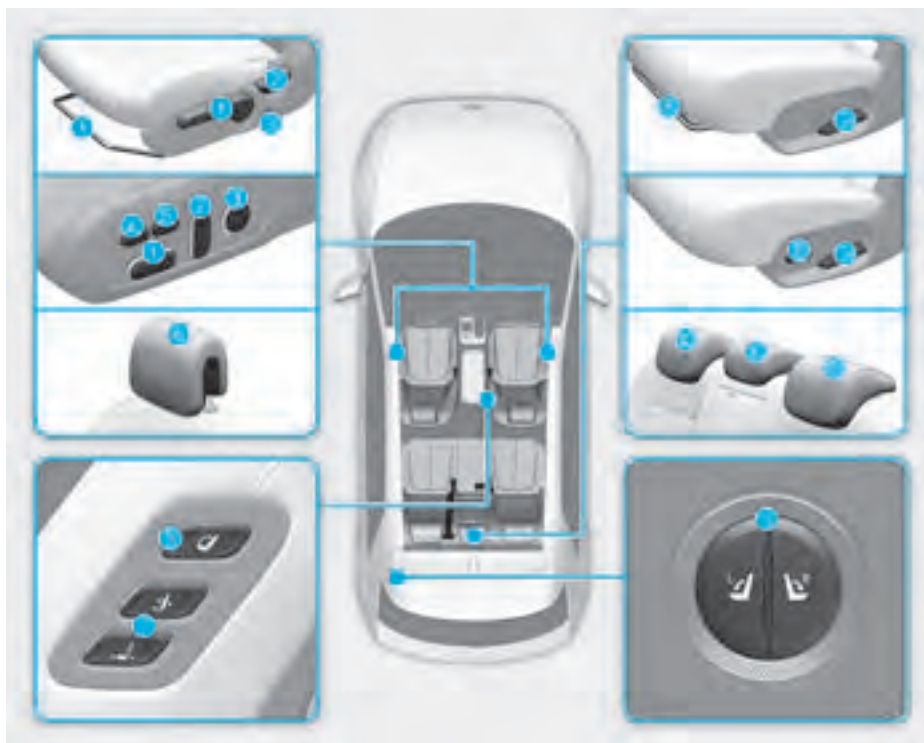
Control your speed

Excessive speed is a major factor in crash injuries and deaths. Generally, the higher the speed, the greater the risk, but serious injuries can also occur at lower speeds. Never drive faster than is safe for current conditions, regardless of the maximum speed posted.

Keep your vehicle in safe condition

Having a tire blowout or a mechanical failure can be extremely hazardous. To reduce the possibility of such problems, check your tire pressures and condition frequently, and perform all regularly scheduled maintenance.

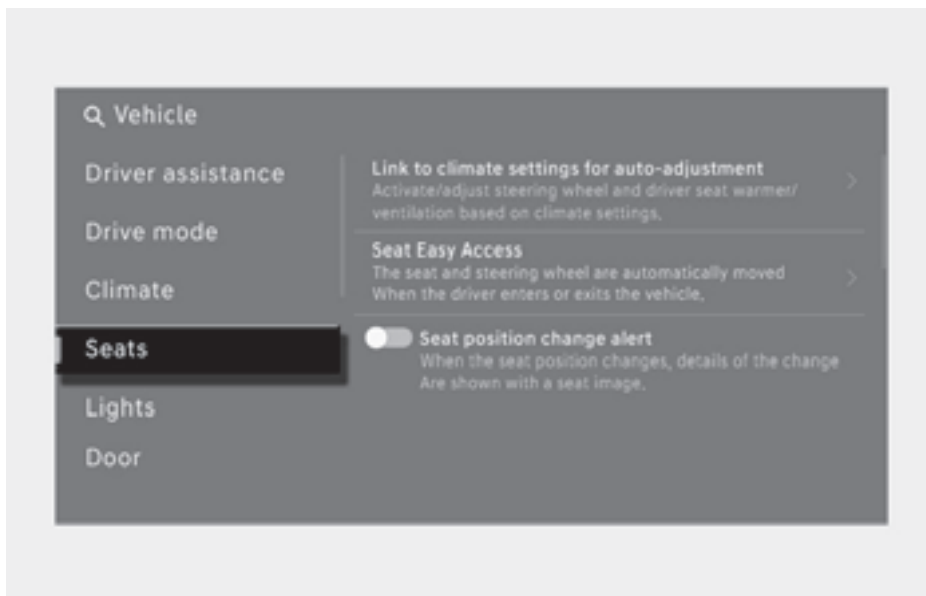
Seats



The actual shape may differ from the illustration.

- (1) Front seat sliding forward or rearward/cushion height/seat cushion angle (Relaxation comfort, if equipped)
- (2) Front seat seatback angle
- (3) Front seat lumbar support
- (4) Front seat leg support
- (5) Front seat Relaxation comfort seat switch
- (6) Front seat headrest
- (7) Front passenger's walk-in switch
- (8) Rear seat slide forward and rearward
- (9) Rear seat seatback angle
- (10) Rear seat headrest
- (11) Rear seat remote folding button

Infotainment system



Select '**Settings > Vehicle > Seat**' from the Settings menu in the infotainment system screen, you may use various convenience functions.

- **Link to climate settings for auto-adjustment:** The seat warmer and air ventilation seat is automatically controlled depending on the ambient temperature and set climate control temperature.
- **Seating easy access:** When the driver enters or leaves the vehicle, the driver's seat automatically moves.
- **Seat position change alert:** When the seat position changes, details of the change are shown with a seat image.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

i Information

The information provided may differ depending on which functions are applicable to your vehicle.

Safety precautions

Adjusting the seats so that you are sitting in a safe and comfortable position plays an important role for the safety of the driver and passengers, as much as seat belts and airbags when in an accident.

WARNING

Do not use a cushion that reduces friction between the seat and the passenger. The passenger's hips may slide under the lap portion of the seat belt during an accident or a sudden stop.

Serious or fatal internal injuries could result because the seat belt cannot operate properly.

Airbags

You can take steps to reduce the risk of being injured by an inflating airbag. Sitting too close to an airbag greatly increases the risk of injury in the event the airbag inflates. Move your seat as far back as possible from front airbags, while still maintaining control of the vehicle.

WARNING

To reduce the risk of serious injury or death from an inflating airbag, take the following precautions:

- Adjust the driver's seat as far to the rear as possible while maintaining the ability to control the vehicle.
 - Adjust the front passenger seat as far to the rear as possible.
 - Hold the steering wheel by the rim with your hands at the 9 o'clock and 3 o'clock positions to minimize the risk of injuries to your hands and arms.
 - NEVER place anything or anyone between you and the airbag.
 - Do not allow the front passenger to place feet or legs on the dashboard to minimize the risk of leg injuries.
-

Seat belts

Always fasten your seat belt before starting any trip. At all times, passengers should sit upright and be properly restrained. Infants and small children must be restrained in appropriate Child Restraint Systems. Children who have outgrown a booster seat and adults must be restrained using the seat belts.

WARNING

Take the following precautions when adjusting your seat belt:

- NEVER use one seat belt for more than one occupant.
- Always position the seatback upright with the lap portion of the seat belt snug and low across the hips.
- NEVER allow children or small infants to ride on a passenger's lap.
- Do not route the seat belt across your neck, across sharp edges, or reroute the shoulder strap away from your body.
- Do not allow the seat belt to become caught or jammed.

Front seats

WARNING

Take the following precautions when adjusting your seat:

- NEVER attempt to adjust the seat while the vehicle is moving. The seat could respond with unexpected movement and may cause loss of vehicle control resulting in an accident.
- Do not place anything under the front seats. Loose objects in the driver's foot area could interfere with the operation of the foot pedals, causing an accident.
- Do not allow anything to interfere with the normal position and proper locking of the seatback.
- Do not place a cigarette lighter on the floor or seat. When you operate the seat, gas may exit out of the lighter causing a fire.
- Use extreme caution when picking up small objects trapped under the seats or between the seat and the center console. Your hands might be cut or injured by the sharp edges of the seat mechanism.
- If there are occupants in the rear seats, be careful while adjusting the front seat position.
- Make sure that the seat is locked in place after the adjustment. If not, the seat might move unexpectedly resulting in an accident.

CAUTION

To prevent injury:

- Do not adjust your seat while wearing your seat belt. Moving the seat cushion forward may cause strong pressure on your abdomen.
- Do not allow your hands or fingers to get caught in the seat mechanisms while the seat is moving.

WARNING

NEVER allow children in the vehicle unattended. The power seats are operable when the vehicle is turned off.

NOTICE

To prevent damage to the seats:

- Always stop adjusting the seats when the seat has been adjusted as far forward or rearward as possible.
- Do not adjust the seats longer than necessary when the vehicle is turned off. This may result in unnecessary battery drain.
- Do not operate two or more seats at the same time. This may result in an electrical malfunction.

Information

The front seat position and seatback angle can be adjusted in the infotainment system.

On the Home screen of the infotainment system, select **Seats** to adjust the seats.

Manual adjustment

 if equipped

The front seat can be adjusted by using the levers located underneath the seat cushion. Before driving, adjust the seat to the proper position so that you can easily control the steering wheel, foot pedals and controls on the instrument panel.

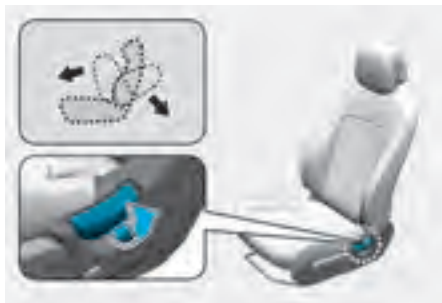
Forward and rearward adjustment



To move the seat forward or rearward:

1. Pull up the seat slide adjustment lever and hold it.
2. Slide the seat to the position you desire.
3. Release the lever and make sure the seat is locked in place. Move forward and rearward without using the lever. If the seat moves, it is not locked properly.

Seatback angle



To recline the seatback:

1. Lean forward slightly and lift up the seatback lever.
2. Carefully lean back on the seat and adjust the seatback to the position you desire.
3. Release the lever and make sure the seatback is locked in place. (The lever MUST return to its original position for the seatback to lock.)

Reclining seatback

Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the protection of your restraint system (seat belts and/or airbags) is greatly reduced by reclining your seatback.

WARNING

NEVER ride with a reclined seatback when the vehicle is moving.

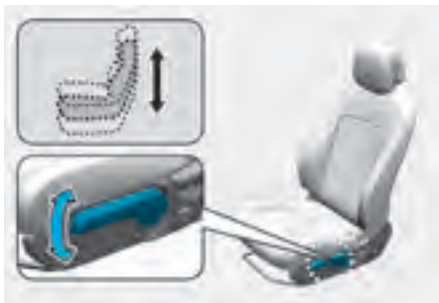
Riding with a reclined seatback increases your chance of serious or fatal injuries in the event of a collision or sudden stop.

Drivers and passengers should **ALWAYS** sit well back in their seats, properly belted, and with the seatbacks upright.

Seat belts must be snug against your hips and chest to work properly. When the seatback is reclined, the shoulder belt cannot do its job because it will not be snug against your chest. Instead, it will be in front of you. During an accident, you could be thrown into the seat belt, causing neck or other injuries.

The more the seatback is reclined, the greater chance the passenger's hips will slide under the lap belt or the passenger's neck will strike the shoulder belt.

Seat height



To change the height of the seat cushion:

- Push down the lever several times, to lower the seat cushion.
- Pull up the lever several times, to raise the seat cushion.

Lumbar support

+ if equipped



To adjust the lumbar support:

- Press the front portion of the switch (1) to increase the support or the rear portion of the switch (2) to decrease the support.

NOTICE

Do not continue to operate the lumbar support when the lumbar support provides its maximum support. Damage to the lumbar support motor could occur.

Power adjustment

+ if equipped

The front seat can be adjusted by using the control switches located on the outside of the seat cushion. Before driving, adjust the seat to the proper position so that you can easily control the steering wheel, foot pedals and controls on the instrument panel.

Forward and rearward adjustment



To move the seat forward or rearward:

1. Push the control switch forward or rearward.
2. Release the switch once the seat reaches the desired position.

Seat cushion tilt/height adjustment



- **Seat cushion tilt (1)**

To change the angle of the front part of the seat cushion:

Push the front portion of the control switch up to raise or down to lower the front part of the seat cushion.

Release the switch once the seat reaches the desired position.

- **Seat height (2)**

To change the height of the seat cushion:

Push the rear portion of the control switch up to raise or down to lower the height of the seat cushion.

Release the switch once the seat reaches the desired position.

Seatback angle adjustment



To recline the seatback:

1. Push the control switch forward or rearward.

2. Release the switch once the seatback reaches the desired position.

Reclining seatback

Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the protection of your restraint system (seat belts and airbags) is greatly reduced by reclining your seatback.

WARNING

NEVER ride with a reclined seatback when the vehicle is moving.

Riding with a reclined seatback increases your chance of serious or fatal injuries in the event of a collision or sudden stop.

Driver and passengers should ALWAYS sit well back in their seats, properly belted, and with the seatbacks upright.

Seat belts must be snug against your hips and chest to work properly. When the seatback is reclined, the shoulder belt cannot do its job because it will not be snug against your chest. Instead, it will be in front of you. During an accident, you could be thrown into the seat belt, causing neck or other injuries.

The more the seatback is reclined, the greater chance the passenger's hips will slide under the lap belt or the passenger's neck will strike the shoulder belt.

Leg support adjustment

 if equipped



1. Press the front portion of the switch (1) to raise the leg support.
2. Press the rear portion of the switch (2) to lower the leg support.

Lumbar support

 if equipped



To adjust the lumbar support:

- Press the front portion of the switch (1) to increase support or the rear portion of the switch (2) to decrease support.

NOTICE

Do not continue to operate the lumbar support when the lumbar support provides its maximum support. Damage to the lumbar support motor could occur.

Relaxation comfort seat

 If equipped

Relaxation comfort seats distribute body pressure and concentrated weight on specific body parts that occur while sitting in the same position for a long period of time. The seat relieves fatigue and discomfort by providing the optimal sit position.

CAUTION

Take the following precautions when using the relaxation comfort seat:

- Do not use the relaxation comfort seat while the vehicle is moving. Using the comfort seat could increase the risk of injuries in the event of a collision or sudden stop.
- Do not use the relaxation comfort seat when the luggage or other objects are placed at the rear seat.
- Do not use the relaxation comfort seat while the vehicle is moving. Seat belts may not operate normally due to the lack of adherence between the shoulder belts and the body.
- Do not use the relaxation comfort seat when the rear seats are not in the rearmost position and upright.

To activate relaxation comfort seat



Driver's seat

1. With the vehicle stop completely, shift the gear to P (Park).
2. Press the rear portion of the switch more than 0.5 seconds with the Start/Stop button in the ACC or ON position, an alarm appears on the infotainment screen. Then press the rear position of the switch again for more than 0.5 seconds.

If the switch is not pressed within 5 seconds after the alarm appears, relaxation comfort seat will not be activated.

- The seat cushion will be moved forward or rearward automatically.
- The seat cushion, seatback angle and leg support will be adjusted.

Passenger's seat

Press the rear portion of the switch more than 0.5 seconds with the Start/Stop button in the ACC or ON position.

- The seat cushion will be moved forward or rearward automatically.
- The seat cushion, seatback angle and leg support will be adjusted.

In the following cases, an alarm appears on the infotainment screen and the relaxation comfort seat will be deactivated.

- When the gear is not in P (Parking). (only for driver's seat)
- When the vehicle is moving more than 3 km/h (1.8 mph). (only for driver's seat)
- When the rear seat belt is fastened

To deactivate relaxation comfort seat



Press the front portion of the switch more than 0.5 seconds with the Start/Stop button in the ACC or ON position.

- The driver's and passenger's seat will return to the last position before using the relaxation comfort seat.

i Information

In the following cases, the relaxation comfort seat will not return to the original position for the driver's seat.

- When the driver's seat Integrated Memory System is reset. (if equipped)
- When the gear is not in P (Park).
- When the vehicle is moving more than 3 km/h (1.8 mph).

i Information

When relaxation comfort seat cannot be operated, try to reset Integrated Memory System. If relaxation comfort seat does not operate even after Integrated Memory System is reset, it is recommended that you contact an authorized HYUNDAI dealer.

NOTICE

Do not use the seat switches simultaneously. It may damage the seat system.

Seatback pocket



The seatback pocket is provided on the back of the front seatbacks.

CAUTION

Do not put heavy or sharp objects in the seatback pockets. In an accident they could come loose from the pocket and injure occupants.

Rear seats

Manual adjustment

Forward and rearward



To move the seat forward or rearward:

1. Pull the seat slide adjustment lever up and hold it.
2. Slide the seat to the position you desire.
3. Release the lever and make sure the seat is locked in place.

i Information

For the optimal safety, slide the rear seat to the rearmost position.

Seatback angle



To recline the seatback:

1. Pull up the seatback recline lever.
2. Hold the lever and adjust the seatback of the seat to the position you desire.
3. Release the lever and make sure the seatback is locked in place. The lever **MUST** return to its original position for the seatback to lock.

* The seatbacks can be folded with the seatback recline lever.

Power adjustment

 if equipped

Information

The rear seat position can be adjusted in the infotainment system.

On the Home screen of the infotainment system, select **Seats** to adjust the seats.

Forward and rearward



To move the seat forward or rearward:

1. Push the control switch forward or rearward.
2. Release the switch once the seat reaches the desired position.

Folding the rear seats

The rear seatbacks can be folded to facilitate carrying long items or to increase the luggage capacity of the vehicle.

⚠ WARNING

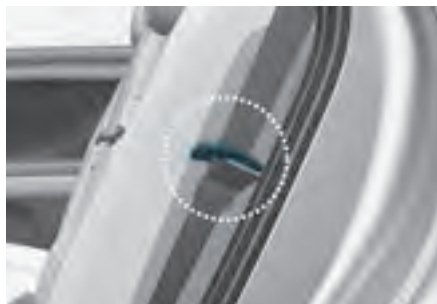
- Never allow passengers to sit on top of the folded down seatback while the vehicle is moving. This is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in a collision or sudden stop.
- Objects carried on the folded down seatback should not extend higher than the top of the front seat backs. This can allow cargo to slide forward and cause property damage or serious injury or even death during a collision or sudden stop.

To fold down the rear seatback:

1. Set the front seatback to the upright position and if necessary, slide the front seat forward.
2. Lower the rear headrests to the lowest position.



3. Route the seat belt webbing to the outward of the rear seat to prevent the belts from being trapped behind or under the seats.



4. Pull up the seatback folding lever (1), then fold the seat (2) toward the front of the vehicle. When you return the seatback to its upright position, always be sure it has locked into position by pushing on the top of the seatback.



5. To use the rear seat, lift and unfold the seatback (2) to the upright position by pulling up the folding lever (1). Push the seatback firmly until it clicks into place. Make sure the seatback is locked in place.



6. Return the rear seat belt to the proper position.

Remote folding button



With the tailgate open, this feature allows you to conveniently fold the rear seatback forward.

1. Press the remote folding button located on the left side of the cargo area.
2. Once the seatback is folded forward, the space can be used for cargo.
3. If the seatback does not fold down completely, push it to make sure it's fully folded.

⚠ WARNING

Always check for any occupants or passengers in the rear seats before folding. Do not fold the seat if there are pets, luggage, passengers sitting in the rear seats, or when passengers are getting out of the vehicle. A sudden movement of the seat may cause injury.

Armrest



The armrest is located in the center of the rear seat. Pull the armrest down from the seatback to use it.

CAUTION

The armrest handle may be pressed when folding the rear seatback, but it will be restored after a certain period of time.

Headrest

The vehicle's front and rear seats have adjustable headrests. The headrests provide comfort for passengers, but more importantly they are designed to help protect passengers from whiplash and other neck and spinal injuries during an accident, especially in a rear impact collision.

WARNING

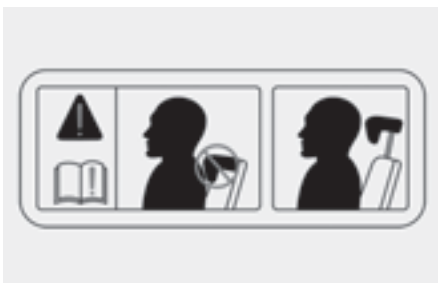
To reduce the risk of serious injury or death in an accident, take the following precautions when adjusting your headrests:

- Always properly adjust the headrests for all passengers BEFORE starting the vehicle.
- NEVER let anyone ride in a seat with the headrest removed or reversed.



- Adjust the headrests so the middle of the headrest is at the same height as the height of the top of the eyes.
- NEVER adjust the headrest position of the driver's seat when the vehicle is in motion.
- Adjust the headrest as close to the passenger's head as possible. Do not use a seat cushion that holds the body away from the seatback.
- Make sure the headrest locks into position after adjusting it.

⚠ WARNING



When sitting on the rear seat, do not adjust the height of the headrest to the lowest position.

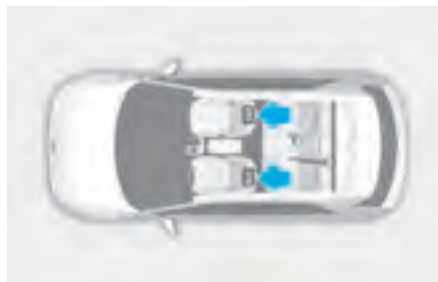
⚠ CAUTION

When there is no occupant in the rear seats, adjust the height of the headrest to the lowest position. The rear seat headrest can reduce the visibility of the rear area.

NOTICE

To prevent damage, NEVER hit or pull on the headrests.

Front seat headrests



The driver's and front passenger's seats are equipped with adjustable headrests for the passengers safety and comfort.

Adjusting the height up and down



To raise the headrest:

1. Pull it up to the desired position (1).

To lower the headrest:

1. Push and hold the release button (2) on the headrest support.
2. Lower the headrest to the desired position (3).

Forward and rearward adjustment



The headrest may be adjusted forward by pulling the headrest forward to the desired detent. To adjust the headrest to its furthest rearwards position, pull it fully forward to the farthest position and release it.

NOTICE



If you recline the seatback towards the front with the headrest and seat cushion raised, the headrest may come in contact with the sunvisor or other parts of the vehicle.

Removal/Reinstall

Type A



Type B

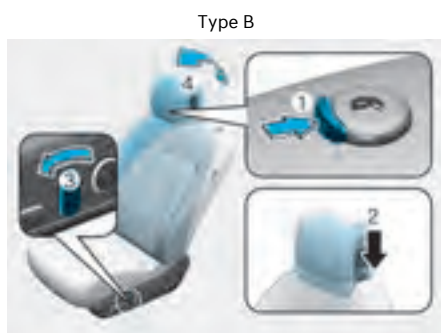
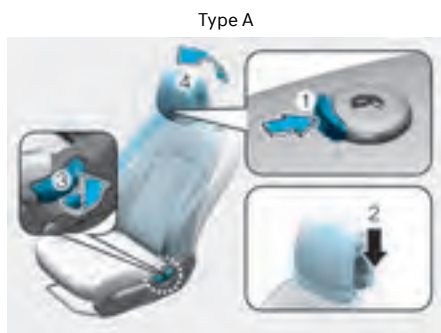


To remove the headrest:

1. Recline the seatback (2) with the seatback angle switch (1).
2. Pull up the headrest to the upmost position and press the release button (3) to remove the headrest (4).

WARNING

NEVER allow anyone to travel in a seat with the headrest removed.



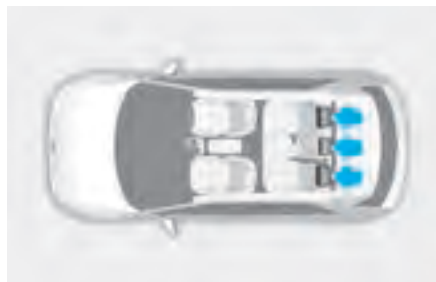
To reinstall the headrest :

1. Recline the seat back by pressing seatback angle lever or switch (3).
2. Put the headrest poles (2) into the holes while pressing the release button (1).
3. Adjust the headrest to the appropriate height.
4. Adjust the seatback angle (4) with the seatback angle switch (3).

WARNING

Always make sure the headrest locks into position after reinstalling and adjusting it properly.

Rear seat headrests



The rear seats are equipped with headrests in all the seating positions for the passenger's safety and comfort.

Adjusting the height up and down



To raise the headrest:

1. Pull it up to the desired position (1).

To lower the headrest:

1. Push and hold the release button (2) on the headrest support.
2. Lower the headrest to the desired position (3).

Removal/Reinstallation



To remove the headrest:

1. Raise the headrest as far as it can go.
2. Press the headrest release button (1) while pulling the headrest up (2).

To reinstall the headrest:

1. Put the headrest poles into the holes (3) while pressing the release button (1).
2. Adjust the headrest to the appropriate height.

Seat warmers

Seat warmers are provided to warm the seats during cold weather.

During mild weather or under conditions where the operation of the seat warmer is not needed, keep the seat warmers OFF.

WARNING

The seat warmers can cause serious burns, even at low temperatures and especially if used for long periods of time. Passengers must be able to feel if the seat is becoming too warm so they can turn it off, if needed.

Seat warmers consume huge amount of electricity. Please avoid using seat warmers while the vehicle is off in order to prevent the battery discharge.

People who cannot detect temperature change or pain to the skin should use extreme caution, especially the following types of passengers:

- Infants, children, elderly or disabled persons, or hospital outpatients.
- People with sensitive skin or who burn easily.
- Fatigued individuals.
- Intoxicated individuals.
- People taking medication that can cause drowsiness or sleepiness.

WARNING

NEVER place anything on the seat that insulates against heat when the seat warmer is in operation, such as a blanket or seat cushion. This may cause the seat warmer to overheat, causing a burn or damage to the seat.

NOTICE

To prevent damage to the seat warmers and seats:

- Never use a solvent such as paint thinner, benzene, alcohol or gasoline to clean the seats.
 - Do not place heavy or sharp objects on seats equipped with seat warmers.
 - Do not change the seat cover. It may damage the seat warmer.
-

Front seat warmers



Press the  button in the sliding console.

- Pressing the switch each time changes the temperature in turn from high to medium, low, and off.
- The seat warmer temperature is lowered automatically and then goes off after a certain time to prevent low temperature burns. If high temperature is selected again after the seat warmer turns off, the temperature is controlled automatically again.
- The seat warmer defaults to the OFF position whenever the vehicle is restarted.

Rear seat warmers

 If equipped



While the vehicle is running, press seat warmer switches located in each seats to warm the rear seat.

- Pressing the switch each time changes the temperature in turn from high to low, and off.
- The seat warmer temperature is lowered automatically and then goes off after a certain time to prevent low temperature burns. If high temperature is selected again after the seat warmer turns off, the temperature is controlled automatically again.
- The seat warmer defaults to the OFF position whenever the vehicle is restarted.

Air ventilation seats

The air ventilation seats are provided to cool the front seats by blowing air through small vent holes on the surface of the seat cushions and seatbacks.

When the operation of the air ventilation seat is not needed, keep the air ventilation seats OFF.

NOTICE

To prevent damage to the air ventilation seats:

- Never use a solvent such as paint thinner, benzene, alcohol or gasoline to clean the seats.
- Avoid spilling liquids on the surface of the front seats and seatbacks; this may cause the air vent holes to block and not work properly.
- Do not place materials such as plastic bags or newspapers under the seats. They may block the air intake causing malfunction of the air vent.
- Do not change the seat covers. It may damage the air ventilation seat.
- If the air vents do not operate, restart the vehicle. If there is no change, we recommend your vehicle to be inspected by an authorized HYUNDAI dealer.

Front air ventilation seats

 if equipped



Press the  button in the sliding console.

- Press the button repeatedly to cycle through the airflow speeds from high to medium, low, and off.
- The air ventilation seats defaults to the OFF position whenever the vehicle is restarted.

Seat belts

This section describes how to use the seat belts properly. It also describes some of the things not to do when using seat belts.

Seat belt safety precautions

Always fasten your seat belt and make sure all passengers have fastened their seat belts before starting any trip. Airbags are designed to supplement the seat belt as an additional safety device, not a replacement. Most countries require all occupants of a vehicle to wear seat belts.

WARNING

Seat belts must be used by ALL passengers whenever the vehicle is moving. Take the following precautions when adjusting and wearing seat belts:

- Children under the age of 13 should be properly restrained in the rear seats.
- Never allow children to ride in the front passenger seat, unless the airbag is deactivated. If a child is seated in the front passenger seat, move the seat as far back as possible. And the child must always be restrained in the seat properly.
- NEVER allow an infant or child to be carried on an occupant's lap.
- NEVER ride with the seatback reclined when the vehicle is moving.
- Do not allow children to share a seat or seat belt.
- Do not wear the shoulder belt under your arm or behind your back.
- NEVER wear a seat belt over fragile objects. If there is a sudden stop or impact, the seat belt can damage it.
- Do not use the seat belt if it is twisted. A twisted seat belt will not protect you properly in an accident.
- Do not latch the seat belt into the buckles of other seats.

- NEVER unfasten the seat belt while driving. This may cause loss of vehicle control resulting in an accident.
- Make sure there is nothing in the buckle interfering with the seat belt latch mechanism, because any materials in the buckle can cause the seat belt not to be fastened securely.
- No modifications or additions should be made by the user which will either prohibit the seat belt adjusting devices from operating to remove slack, or prohibit the seat belt assembly from being adjusted to remove slack.
- Do not use a seat belt if the webbing or hardware is damaged. We recommend that the seat belt be replaced by an authorized HYUNDAI dealer.

WARNING

Damaged seat belts and seat belt assemblies will not operate properly. Always replace:

- Frayed, contaminated, or damaged webbing.
- Damaged hardware.
- The entire seat belt assembly after it has been worn in an accident, even if damage to webbing or assembly is not apparent.

Seat belt warning light

Driver's seat belt warning

Instrument cluster



As a reminder to the driver, the driver's seat belt warning lights illuminates for about 6 seconds each time the Start/Stop button is in the ON position regardless of seatbelt fastening.

If you continue not to fasten the seat belt or unfasten the seat belt while driving under 20 km/h (12 mph), the seat belt warning light illuminates.

If you continue not to fasten the seat belt or unfasten the seat belt while driving 20 km/h (12 mph) or faster, the seat belt warning chime sounds for certain period of time and the warning light blinks.

Front passenger's seat belt warning

As a reminder to the front passenger, the front passenger's seat belt warning lights illuminates for about 6 seconds each time the Start/Stop button is turned on regardless of seatbelt fastening.

If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive under 20 km/h (12 mph), the seat belt warning light illuminates.

If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive 20 km/h (12 mph) or faster, the seat belt warning chime sounds for certain period of time and the corresponding warning light blinks.

WARNING

Riding in an improper position adversely affects the front passenger's seat belt warning system. It is important for the driver to instruct the passenger to properly be seated as instructed in this manual.

Information

- Although the front passenger seat is not occupied, the seat belt warning light will blink or illuminate for 6 seconds.
- The front passenger's seat belt warning may operate when luggage is placed on the front passenger seat.

Rear passenger's seat belt warning



For rear left and right side seat

- As a reminder to the rear passenger, the rear passenger's seat belt warning lights illuminates for about 6 seconds each time the Start/Stop button is in the ON position regardless of seatbelt fastening.
- If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive under 20 km/h (12 mph), the corresponding warning light continues to illuminate until the seatbelt is fastened.
- If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive 20 km/h (12 mph) or faster, the seat belt warning chime sounds for about 35 seconds and the corresponding warning light blinks.

For rear center seat

- As a reminder to the rear passenger, the rear passenger's seat belt warning lights will illuminate for approximately 6 seconds each time the Start/Stop button is in the ON position regardless of belt fastening.
- If the seat belt is not fastened when the Start/Stop button is turned on, the seat belt warning light will illuminate for approximately 70 seconds.
- If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20 km/h (12 mph), the corresponding warning light will continue to illuminate for approximately 70 seconds.
- If you continue to drive without the seat belt fastened or you unfasten the seat belt when you drive over 20 km/h (12 mph), the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.
- If the rear door is opened or closed under 10 km/h (6 mph), warning light and warning sound does not work even if driving over 20 km/h (12 mph).

Seat belt restraint system

WARNING



Improperly positioned seat belts may increase the risk of serious injury in an accident. Take the following precautions when adjusting the seat belt:

- Position the lap portion of the seat belt as low as possible across your hips, not on your waist, so that it fits snugly. This allows your strong pelvic bones to absorb the force of the crash, reducing the chance of internal injuries.
- Position one arm under the shoulder belt and the other over the belt, as shown in the illustration.
- Always position the shoulder belt anchor into the locked position at the appropriate height.
- Never position the shoulder belt across your neck or face.

Lap/shoulder belt

To fasten your seat belt:



Pull it out of the retractor and insert the metal tab (1) into the buckle (2). An audible "click" when the tab locks into the buckle. Make sure the seat belt is not twisted.



You should place the lap belt (1) portion across your hips and the shoulder belt (2) portion across your chest.

The seat belt automatically adjusts to the proper length after the lap belt portion is adjusted manually so that it fits snugly around your hips. If you lean forward in a slow, easy motion, the belt will extend and move with you.

If there is a sudden stop or impact, the belt will lock into position. It will also lock if you try to lean forward too quickly.

NOTICE

If you are not able to smoothly pull enough of the seat belt out from the retractor, firmly pull the seat belt out and release it. After release, you will be able to pull the belt out smoothly.

Height adjustment

You can adjust the height of the shoulder belt anchor to one of the four different positions for maximum comfort and safety.

The shoulder portion should be adjusted so it lies across your chest and midway over your shoulder nearest the door, not over your neck.

Front seat



To adjust the height of the seat belt anchor, lower or raise the height adjuster into an appropriate position.

To raise the height adjuster, pull it up (1). To lower it, push it down (3) while pressing the height adjuster button (2).

Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

To release your seat belt:



Press the release button (1) in the locking buckle.

Once released, the belt should automatically draw back into the retractor. If this does not happen, check the belt to be sure it is not twisted, then try again.

Rear center seatbelt (3-point rear center seat belt)



Insert the tongue plate (1) into the buckle (2) until an audible "click" is heard, indicating the latch is locked. Pull the shoulder portion of the belt to snug the belt across your hips and remove slack. Make sure the seat belt is not twisted.

When using the rear center seat belt, use the buckle with the "CENTER" mark.

***i* Information**

If you are not able to pull out the safety belt from the retractor, firmly pull the belt out and release it. After release, you will be able to pull the belt out smoothly.

WARNING

Make sure that the seatback is locked in place when using the rear center seat belt.

If not, the seatback may move when there is a sudden stop or collision, which could result in serious injury.

Pre-tensioner seat belt



Your vehicle is equipped with driver's and front passenger's and rear passenger's Pre-tensioner Seat Belts (Retractor Pre-tensioner). The purpose of the pre-tensioner is to make sure the seat belts fit tightly against the occupant's body in certain frontal or side collision(s). The pre-tensioner seat belts may be activated in crashes where the frontal or side collision(s) is severe enough, together with the airbags.

When the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor will lock into position.

In certain frontal collisions, the pre-tensioner will activate and pull the seat belt into tighter contact against the occupant's body.

If the system senses excessive tension on the driver's, front passenger's, or rear passenger's (if equipped) seat belt when the pre-tensioner system activates, the load limiter inside the retractor pre-tensioner will release some of the pressure on the affected seat belt.

WARNING

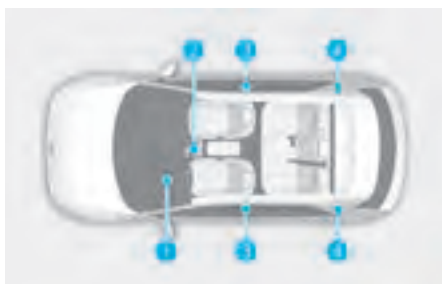
- Always wear your seat belt and sit properly in your seat.
- Do not use the seat belt if it is loose or twisted. A loose or twisted seat belt will not protect you properly in an accident.
- Do not place anything near the buckle. This may adversely affect the buckle and cause it to function improperly.
- Always replace your pre-tensioners after activation or an accident.
- NEVER inspect, service, repair or replace the pre-tensioners by yourself. We recommend that you have the pre-tensioners inspected, serviced, repaired or replaced by an authorized HYUNDAI dealer.
- Do not hit the seat belt assemblies.

WARNING

Do not touch the pre-tensioner seat belt assemblies for several minutes after they have been activated. When the pre-tensioner seat belt mechanism deploys during a collision, the pre-tensioner can become hot and can burn you.

⚠ CAUTION

Body work on the front area of the vehicle may damage the pre-tensioner seat belt system. Therefore, we recommend the system to be serviced by an authorized HYUNDAI dealer.



The Pre-Tensioner Seat Belt System consists mainly of the following components. Their locations are shown in the illustration above:

- (1) SRS airbag warning light
- (2) SRS control module
- (3) Retractor pre-tensioner (front)
- (4) Retractor pre-tensioner (rear)

NOTICE

The sensor that activates the SRS control module is connected with the pre-tensioner seat belts. The SRS airbag warning light on the instrument cluster will illuminate for approximately 3~6 seconds after the Start/Stop button is in the ON position, and then it should turn off.

If the pre-tensioner is not working properly, the warning light will illuminate even if the SRS airbag is not malfunctioning. If the warning light does not illuminate, stays illuminated or illuminates when the vehicle is being driven, we recommend the pre-tensioner seat belts and/or SRS control module be inspected by an authorized HYUNDAI dealer as soon as possible.

i Information

- Pre-tensioner seat belts may be activated in certain frontal or side collisions or rollover situations (if equipped with rollover sensor).
 - When the pre-tensioner seat belts are activated, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous.
 - Although it is non-toxic, the fine dust may cause skin irritation and should not be inhaled for prolonged periods. Wash all exposed skin areas thoroughly after an accident in which the pre-tensioner seat belts were activated.
-

Additional seat belt safety precautions

Seat belt use during pregnancy

The seat belt should always be used during pregnancy. The best way to protect your unborn child is to protect yourself by always wearing the seat belt. Pregnant women should always wear a lap-shoulder seat belt. Place the shoulder belt across your chest, routed between your breasts and away from your neck. Place the lap belt below your belly so that it fits **SNUGLY** across your hips and pelvic bone, under the rounded part of the belly.

WARNING

- Pregnant women and patients are more vulnerable to any impacts on the abdomen during an abrupt stop or collision. If you are in an accident while pregnant, consult your doctor.
 - To reduce the risk of serious injury or death to an unborn child during an accident, pregnant women should **NEVER** place the lap portion of the seat belt above or over the area of the abdomen where the unborn child is located.
-

Seat belt use and children

Infant and small children

Most countries have Child Restraint System laws which require children to travel in approved Child Restraint System devices, including booster seats. The age at which seat belts can be used instead of Child Restraint System differs among countries, so you should be aware of the specific requirements in your country, and where you are traveling. Infant and Child Restraint System must be properly placed and installed in a rear seat.

For more information refer to the "Child Restraint System (CRS)" section in this chapter.

WARNING

ALWAYS properly restrain infants and small children in a Child Restraint System appropriate for the child's height and weight.

To reduce the risk of serious injury or death to a child and other passengers, NEVER hold a child in your lap or arms when the vehicle is moving. The violent forces created during an accident will tear the child from your arms and throw the child against the interior of the vehicle.

Small children are best protected from injury in an accident when properly restrained in the rear seat by a Child Restraint System that meets the requirements of the Safety Standards of your country. Before buying any Child Restraint System, make sure that it has a label certifying that it meets Safety Standard of your country.

The Child Restraint System must be appropriate for your child's height and weight. Check the label on the Child Restraint System for this information. Refer to "Child Restraint System (CRS)" section in this chapter.

Larger children

Children under age 13 and who are too large for a booster seat should always occupy the rear seat and use the available lap/shoulder belts. A seat belt should lie across the upper thighs and be snug across the shoulder and chest to restrain the child safely. Check belt fit periodically. A child's squirming could put the belt out of position. In the event of an accident, children are afforded the best safety restrained by a proper Child Restraint System in the rear seats.

If a larger child over age 13 must be seated in the front seat, the child must be securely restrained by the available lap/shoulder belt and the seat should be placed in the rearmost position.

If the shoulder belt portion slightly touches the child's neck or face, try placing the child closer to the center of the vehicle. If the shoulder belt still touches their face or neck, they need to be returned to an appropriate booster seat in the rear seat.

WARNING

- Always make sure larger children's seat belts are worn and properly adjusted.
- NEVER allow the shoulder belt to contact the child's neck or face.
- Do not allow more than one child to use a single seat belt.

Seat belt use and injured people

A seat belt should be used when an injured person is being transported. Consult a physician for specific recommendations.

One person per belt

Two people (including children) should never attempt to use a single seat belt. This could increase the severity of injuries in case of an accident.

Do not lie down

Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the protections of your restraint system (seat belts and/or airbags) is greatly reduced by reclining your seatback.

Seat belts must be snug against your hips and chest to work properly.

During an accident, you could be thrown into the seat belt, causing neck or other injuries.

The more the seat back is reclined, the greater the chance for the passenger's hips to slide under the lap belt or the passenger's neck to strike the shoulder belt.

 WARNING

- NEVER ride with a reclined seatback when the vehicle is moving.
- Riding with a reclined seatback increases your chance of serious or fatal injuries in the event of a collision or sudden stop.
- Driver and passengers should always sit well back in their seats with the seatbacks upright and should be belted properly.

Care of seat belts

Seat belt systems should never be disassembled or modified. In addition, care should be taken to assure that seat belts and belt hardware are not damaged by seat hinges, doors or other abuse.

Periodic inspection

All seat belts should be inspected periodically for wear or damage of any kind. Any damaged parts should be replaced as soon as possible.

Keep belts clean and dry

Seat belts should be kept clean and dry. If belts become dirty, they can be cleaned by using a mild soap solution and warm water. Bleach, dye, strong detergents or abrasives should not be used because they may damage and weaken the fabric.

When to replace seat belts

The entire seat belt assembly or assemblies should be replaced if the vehicle has been involved in an accident. This should be done even if no damage is visible. We recommend that you consult an authorized HYUNDAI dealer.

Child Restraint System (CRS)

Our recommendation: Children at middle position

WARNING

Always properly restrain children in the vehicle. Children of all ages are safer when riding in the rear seats. Never place a rearward-facing Child Restraint System on the front passenger seat, unless the airbag is deactivated.

Children under age 13 should always ride in the rear seats and must always be properly restrained to minimize the risk of injury in an accident, sudden stop or sudden maneuver.

According to accident statistics, children are safer when properly restrained in the rear seats than in the front seat. Children too large for a Child Restraint System must use the seat belts provided.

Most countries have regulations which require children to travel in approved Child Restraint Systems.

The laws governing the age or height/weight restrictions at which seat belts can be used instead of Child Restraint System differs among countries, so you should be aware of the specific requirements in your country, and where you are traveling.

Child Restraint Systems must be properly installed in the vehicle seat. Always use a commercially available Child Restraint System that meets the requirements of your country.

Child Restraint Systems are generally designed to be secured in a vehicle seat by a lap/shoulder seat belt, or by a top tether and/or ISOFIX anchorage in the rear seats of the vehicle.

Child Restraint System (CRS)

Infants and younger children must be restrained in an appropriate rearward-facing or forward-facing CRS that has first been properly secured to the seat of the vehicle. Read and comply with the instructions for installation and use provided by the manufacturer of the Child Restraint System.

WARNING

- Always follow the Child Restraint System manufacturer's instructions for installation and use.
 - Always properly restrain your child in the Child Restraint System.
 - Do not use an infant carrier or a child safety seat that "hooks" over a seatback, it may not provide adequate protection in an accident.
 - After an accident, we recommend an authorized HYUNDAI dealer to check the Child Restraint System, seat belts, ISOFIX anchorages and top-tether anchorages.
-

Selecting a Child Restraint System (CRS)

When selecting a Child Restraint System for your child, always:

- Make sure the Child Restraint System has a label certifying that it meets applicable Safety Standards of your country.

A Child Restraint System may only be installed if it was approved in accordance with the requirements of ECE-R44 or ECE-R129.

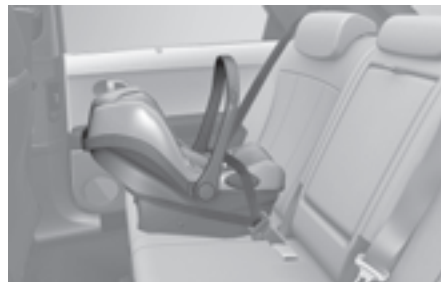
- Select a Child Restraint System based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a Child Restraint System that fits the vehicle seating position where it will be used.
- Read and comply with the warnings and instructions for installation and use provided with the Child Restraint System.

Child Restraint System types

There are three main types of Child Restraint Systems: rearward-facing, forward-facing and booster Child Restraint Systems.

They are classified according to the child's age, height and weight.

Rearward-facing Child Restraint System



With a rearward-facing Child Restraint System, the collision forces are absorbed by its shell instead of the child's body. The shell also supports the system's cradles and protects the head, neck and spine of the child. All children under the age of one year must always ride in a rearward-facing Child Restraint System. Convertible and 3-in-1 Child Restraint Systems typically have higher height and weight limits for the rearward-facing position, allowing you to keep your child rearward-facing for a longer period of time.

Continue using the Child Restraint Systems in the rearward-facing position as long as the child is within the height and weight limits allowed by the Child Restraint System's manufacturer. It's the best way to keep them safe. Once your child has outgrown the rearward-facing Child Restraint System, your child is ready for a forward-facing Child Restraint System with a harness.

Forward-facing Child Restraint System



A forward-facing Child Restraint System provides restraint for the child's body with a harness. Keep children in a forward-facing Child Restraint System with a harness until they reach the top height or weight limit allowed by your Child Restraint System's manufacturer.

Once your child outgrows the forward-facing Child Restraint System, your child is ready for a booster seat.

Booster seats

A booster seat is a Child Restraint System designed to improve the fit of the vehicle's seat belt system. A booster seat positions the seat belt so that it fits properly over the stronger parts of your child's body. Keep your children in booster seats until they are big enough to fit in a seat belt properly.

For a seat belt to fit properly, the lap belt must lie comfortable across the upper thighs, not the stomach. The shoulder belt should lie comfortable across the shoulder and chest and not across the neck or face. Children under age 13 must always be properly restrained to minimize the risk of injury in an accident, sudden stop or sudden maneuver.

Installing a Child Restraint System (CRS)

WARNING

Before installing your Child Restraint System always:

- Read and follow the instructions provided by the manufacturer of the Child Restraint System.
- Read and follow the instructions regarding Child Restraint Systems in this manual.

Failure to follow all warnings and instructions could increase the risk of the **SERIOUS INJURY** or **DEATH** if an accident occurs.

WARNING

If the vehicle headrest prevents proper installation of a Child Restraint System, the headrest of the respective seating position shall be readjusted or entirely removed.

After selecting a proper Child Restraint System for your child and checking that the Child Restraint System fits properly on the seating position, there are three general steps for a proper installation:

- **Properly secure the Child Restraint System to the vehicle.** All Child Restraint Systems must be secured to the vehicle with the lap belt or lap part of a lap/shoulder belt or with the ISOFIX top-tether and/or ISOFIX anchorage and/or with the support leg.
- **Make sure the Child Restraint System is firmly secured.** After installing a Child Restraint System to the vehicle, push and pull the seat forward and from side-to-side to verify that it is securely attached to the seat. A Child Restraint System secured with a seat belt should be installed as firmly as possible. However, some side-to-side movement can be expected.

When installing a Child Restraint System, adjust the vehicle seat and seatback (up and down, forward and rearward) so that your child fits in the Child Restraint System in a comfortable manner.

- **Secure the child in the Child Restraint System.** Make sure the child is properly strapped in the Child Restraint System according to the Child Restraint System manufacturer's instructions.

CAUTION

A Child Restraint System in a closed vehicle can become very hot. To prevent burns, check the seating surface and buckles before placing your child in the Child Restraint System.

Suitability of each seating position for belted & ISOFIX Child Restraint Systems according to UN regulations (for Europe)

(Information for vehicle users and CRS manufacturers)

- Yes: Suitable for fitment of the designated category of CRS
- No: Not suitable for fitment of the designated category of CRS
- "-": Not applicable
- The table is based on left-hand drive vehicle. Except for the front passenger seat, the table is valid for right-hand drive vehicle. For right-hand drive vehicle front passenger seat, please use information for the seating position number 3.

CRS categories		Seating positions					
		1,2	3		4	5	6
			Airbag ON	Airbag OFF			
Universal belted CRS	All mass groups	-	No	Yes* ¹ F, R	Yes F, R	Yes F, R	Yes F, R
i-size CRS	ISOFIX CRF : F2, F2X, R1, R2	-	No	No	Yes F, R	No	Yes F, R
Carry-cot (ISOFIX lateral facing CRS)	ISOFIX CRF: L1, L2	-	No	No	No	No	No
ISOFIX infant* CRS (* : ISOFIX baby CRS)	ISOFIX CRF: R1	-	No	No	Yes R	No	Yes R
ISOFIX toddler CRS - small	ISOFIX CRF: F2, F2X, R2, R2X	-	No	No	Yes F, R	No	Yes F, R
ISOFIX toddler CRS - large* (* : not booster seats)	ISOFIX CRF: F3, R3	-	No	No	Yes F, R	No	Yes F, R
Booster Seat - reduced width	ISO CRF: B2	-	No	No	Yes	No	Yes
Booster Seat - full width	ISO CRF: B3	-	No	No	Yes	No	Yes

*1: To install Universal CRS, the 1st row passenger seat height should be at highest possible position.

***i* Information**

F: Forward facing, R: Rearward facing

i Information

- If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating position shall be readjusted or entirely removed.
- Never place a rearward facing Child Restraint System on the front passenger seat, unless the airbag is deactivated.
- For semi-universal or vehicle specific CRS (ISOFIX or belted CRS), please see the vehicle list provided in the manual of CRS.
- When Installing Child Restraint system on 2nd row seats, move the seat to mid-position.

Seat number	Position in the vehicle	Seating positions
1	Front left	
2	Front center	
3	Front right	
4	Second row left	
5	Second row center	
6	Second row right	

Suitability of each seating position for belted & ISOFIX Child Restraint Systems according to UN regulations (except Europe)

(Information for vehicle users and CRS manufacturers)

- Yes: Suitable for fitment of the designated category of CRS
- No: Not suitable for fitment of the designated category of CRS
- "-": Not applicable
- The table is based on left-hand drive vehicle. Except for the front passenger seat, the table is valid for right-hand drive vehicle. For right-hand drive vehicle front passenger seat, please use information for the seating position number 3.

CRS categories		Seating positions					
		1,2	3		4	5	6
			Airbag ON	Airbag OFF			
Universal belted CRS	All mass groups	-	No	Yes* ¹ F, R	Yes F, R	Yes F, R	Yes F, R
i-size CRS	ISOFIX CRF: F2, F2X, R1, R2	-	No	No	No	No	No
Carry-cot (ISOFIX lateral facing CRS)	ISOFIX CRF: L1, L2	-	No	No	No	No	No
ISOFIX infant* CRS (*: ISOFIX baby CRS)	ISOFIX CR: R1	-	No	No	Yes R	No	Yes R
ISOFIX toddler CRS - small	ISOFIX CRF: F2, F2X, R2, R2X	-	No	No	Yes F, R	No	Yes F, R
ISOFIX toddler CRS - large* (*: not booster seats)	ISOFIX CRF: F3, R3	-	No	No	Yes F, R	No	Yes F, R
Booster Seat - reduced width	ISO CRF: B2	-	No	No	Yes	No	Yes
Booster Seat - full width	ISO CRF: B3	-	No	No	Yes	No	Yes

*1: To install Universal CRS, 1st row passenger seat height should be at highest possible position.

***i* Information**

F: Forward facing, R: Rearward facing

i Information

- If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating position shall be readjusted or entirely removed.
- Never place a rearward facing Child Restraint System on the front passenger seat, unless the airbag is deactivated.
- For semi-universal or vehicle specific CRS (ISOFIX or belted CRS), please see the vehicle list provided in the manual of CRS.
- When Installing Child Restraint system on 2nd row seats, move the seat to mid-position.

Seat number	Position in the vehicle	Seating positions
1	Front left	
2	Front center	
3	Front right	
4	Second row left	
5	Second row center	
6	Second row right	

Recommended Child Restraint Systems

Mass Group		Seating Position (or other side)		
		Front Passenger	Rear Outboard	Rear Center
Group 0	Up to 10 Kg	X	U	U
Group 0+	Up to 13 Kg	X	U	U
Group I	9 to 18 Kg	X	U	U
Group II	15 to 25 Kg	X	U	U
Group III	22 to 36 Kg	X	U	U

U = Suitable for “universal category Child Restraint System for use in this mass group.

X = Seat position not suitable for children in this mass group.

ISOFIX anchorage and top-tether anchorage (ISOFIX anchorage system) for children

The ISOFIX system connects a Child Restraint System to the vehicle during driving and in a collision. This system is designed to make installation of the Child Restraint System easier and reduce the possibility of improperly installing your Child Restraint System. The ISOFIX system uses anchors in the vehicle and attachments on the Child Restraint System. The ISOFIX system eliminates the need to use seat belts to secure the Child Restraint System to the rear seats.

ISOFIX anchorages are metal bars built into the vehicle. There are two lower anchors for each ISOFIX seating position that accommodates a Child Restraint System with lower attachments.

To use the ISOFIX system in your vehicle, install a Child Restraint System with ISOFIX attachments. (An ISOFIX Child Restraint System may only be installed if it has vehicle specific or universal approval in accordance with the requirements of ECE-R44 or ECE-R129.)

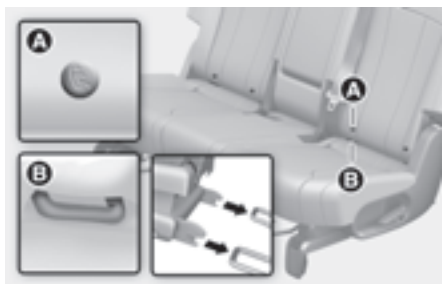
The Child Restraint System manufacturer provides you with instructions on how to use the Child Restraint System with its attachments for the ISOFIX anchorages.



ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration. There are no ISOFIX anchorages provided for the center rear seating position.

WARNING

Do not attempt to install a Child Restraint System using ISOFIX anchorages in the rear center seating position. There are no ISOFIX anchorages provided for this seat. Do not use the outboard seat anchors for the center seat. It may damage the anchorages that may break or fail in a collision resulting in serious injury or death.



[A] ISOFIX Anchorage Position Indicator (Type A: ,
Type B: )
[B] ISOFIX Anchorage

The ISOFIX anchorage position indicator symbols are located on the left and right rear seatbacks to identify the positions of the lower anchors in your vehicle.

Both rear outboard seats are equipped with a pair of ISOFIX anchorages as well as a corresponding top tether anchorage on the back side of the rear seats. (Child Restraint Systems with universal approval according to ECE-R44 or ECER129 need to be fixed additionally with a top tether connected to the back side of the rear seats.)

The ISOFIX anchorages are located between the seatback and the seat cushion of the rear seat left and right outboard seating positions.

WARNING

Before installing the Child Restraint System, make sure that there are no objects (e.g. toys, pens, wires) near the ISOFIX anchorage area. Those objects may damage either the seat belt system or the Child Restraint System during installation. If necessary, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Securing a Child Restraint System with the "ISOFIX Anchorage System"

To install an i-Size or ISOFIX-compatible Child Restraint System in either of the rear outboard seating positions:

1. Move the seat belt buckle away from the ISOFIX anchorages.
2. Move any other objects away from the anchorages that could prevent a secure connection between the Child Restraint System and the ISOFIX anchorages.
3. Place the Child Restraint System on the vehicle seat, then attach the seat to the ISOFIX anchorages according to the instructions provided by the Child Restraint System manufacturer.
4. Follow the instructions of the Child Restraint System's manufacturer for proper installation and connection of the ISOFIX attachments on the Child Restraint System to the ISOFIX anchorages.

WARNING

Take the following precautions when using the ISOFIX system:

- Read and follow all installation instructions provided with your Child Restraint System.
 - To prevent the child from reaching and taking hold of unretracted seat belts, buckle all unused rear seat belts and retract the seat belt webbing behind the child. Children can be strangled if a shoulder belt becomes wrapped around their neck and the seat belt tightens.
 - NEVER attach more than one Child Restraint System to a single anchorage. This could cause the anchor or attachment to come loose or break.
 - Always have the ISOFIX system inspected by your dealer after an accident. An accident can damage the ISOFIX system and may not properly secure the Child Restraint System.
-

Securing a Child Restraint System seat with "Top-tether Anchorage" system



First secure the child restraint with the ISOFIX anchorages or the seat belt. If the child restraint manufacturer recommends that the top tether strap be attached, attach and tighten the top tether strap to the top tether strap anchorage.

Top-tether anchorages for Child Restraint Systems are located on the rear of the seatbacks.



To install the top tether anchor:

1. Route the Child Restraint System top tether strap over the seatback. Route the tether strap under the headrest and between the headrest posts, or route the top tether strap over the top of the vehicle seatback. Make sure the strap is not twisted.
2. Connect the top tether strap hook to the top tether anchorage, then tighten the top tether strap according to the instructions of your Child Restraint

System's manufacturer to firmly secure the Child Restraint System.

3. Check the Child Restraint System is secure by pushing and pulling the seat forward and back and side-to-side.

WARNING

Take the following precautions when installing the top-tether:

- Read and follow all installation instructions provided with your Child Restraint System.
- NEVER attach more than one Child Restraint System to a single ISOFIX top-tether anchorage. This could cause the anchorage or attachment to come loose or break.
- Do not attach the top-tether to anything other than the correct top-tether anchorage. It may not work properly if attached to something else.
- Child Restraint System anchorages are designed to withstand only those loads imposed by correctly fitted Child Restraint System.

Do not use them for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Securing a Child Restraint System with a lap/shoulder belt

When not using the ISOFIX system, all Child Restraint Systems must be secured to a rear seat using the lap/shoulder belt.



Installing a Child Restraint System with a lap/shoulder belt

To install a Child Restraint System on the rear seats, do the following:

1. Place the Child Restraint System on a rear seat and route the lap/shoulder belt around or through the Child Restraint System, following the Child Restraint System manufacturer's instructions. Make sure the seat belt webbing is not twisted.

2. Fasten the lap/shoulder belt latch into the buckle. Listen for the distinct "click" sound.



i Information

Position the release button so that it is easy to access in case of an emergency.

3. Remove as much slack from the belt as possible by pushing down on the Child Restraint System while feeding the shoulder belt back into the retractor.
4. Push and pull on the Child Restraint System to confirm that the seat belt is holding it firmly in place.



If your Child Restraint System manufacturer instructs or recommends that you use a top tether anchorage with the lap/shoulder belt, refer to Securing a Child Restraint System with the "ISOFIX Anchorage System" section for more information.

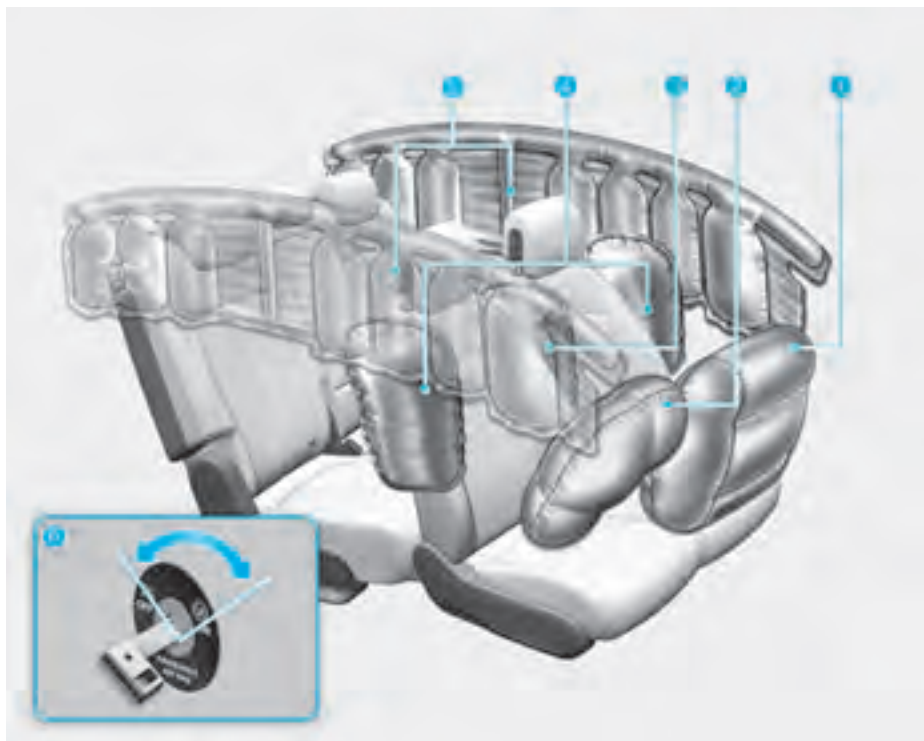
To remove the Child Restraint System, press the release button on the buckle and then pull the lap/shoulder belt out of the Child Restraint System and allow the seat belt to retract fully.

⚠ WARNING

If a child restraint is installed in the second row center seat, move the second row seat far back as possible, to minimize contact with the front center side airbag (if equipped with front center side airbag).

Airbag - supplemental restraint system

Right-hand drive



The actual airbags in the vehicle may differ from the illustration.

- (1) Passenger's front airbag
- (2) Driver's front airbag
- (3) Front center side airbag
- (4) Side airbag
- (5) Curtain airbag
- (6) Front passenger airbag ON/OFF switch

The vehicles are equipped with a Supplemental Airbag System for the driver's seat and front passenger's seats.

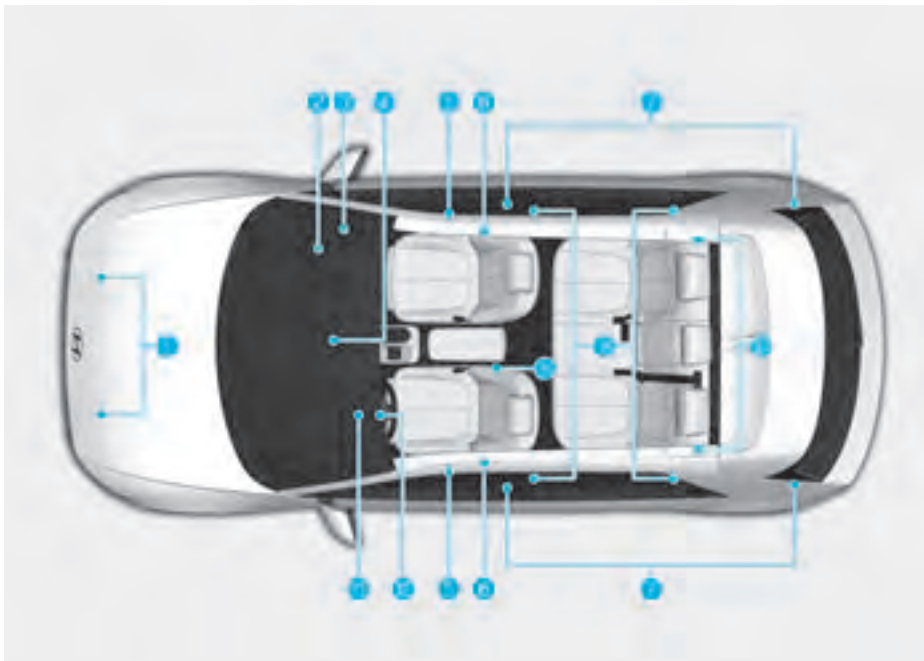
The front airbags are designed to supplement the three-point seat belts. For these airbags to provide protection, the seat belts must be worn at all times when driving.

You can be severely injured or killed in an accident if you are not wearing a seat belt. Airbags are built into the vehicle as a supplementary system. They are not intended as a replacement for wearing 3-point seat belts. Also, airbags are not designed to deploy in every collision. In some accidents, the seat belts are the only restraint protecting you.

 WARNING**AIRBAG SAFETY PRECAUTIONS**

- Always use seat belts and Child Restraint Systems - every trip, every time, everyone! Even with airbags, you can be seriously injured or killed in a collision if you are improperly belted or not wearing your seat belt when the airbag inflates.
 - Never place a child in any Child Restraint System or booster seat in the front passenger seat, unless the airbag is deactivated. An inflating airbag could forcefully strike the infant or child causing serious or fatal injuries.
 - ABC - Always Buckle Children under age 13 in the back seat. It is the safest place for children of any age to ride. If a child age 13 or older must be seated in the front seat, he or she must be properly belted and the seat should be moved as far back as possible.
 - Make sure that all occupants sit upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended, and their feet on the floor until the vehicle is parked and the vehicle is turned off. If an occupant is out of position during an accident, the rapidly deploying airbag may forcefully contact the occupant causing serious or fatal injuries.
 - Never sit or lean unnecessarily close to the airbags or lean against the door or center console.
 - Move your seat as far back as possible from front airbags, while still maintaining control of the vehicle.
-

SRS Components



The SRS consists of the following components:

- (1) Front impact sensors
- (2) Passenger's front airbag module
- (3) Front passenger's airbag ON/OFF switch (if equipped)
- (4) SRS control module (SRSCM) / Rollover sensor
- (5) Side impact sensors (pressure)
- (6) Side airbag modules
- (7) Retractor pre-tensioner
- (8) Front center side airbag module (if equipped)
- (9) Side impact sensors (acceleration)
- (10)Curtain airbag modules
- (11) Airbag warning light
- (12)Driver's front airbag module

i Information

Front passenger's airbag ON/OFF indicator is located on the center of the dashboard.

Where are the airbags?

Driver's and passenger's front airbags

Driver's front airbag



Passenger's front airbag



The SRS consists of airbags which are located in the center of the steering wheel and the passenger's side front panel pad above the glove box.

The airbags are labeled with the letters "AIRBAG" embossed on the pad covers.

The purpose of the SRS is to provide the vehicle's driver and front passengers with additional protection than that offered by the seat belt system alone in case of a frontal impact of sufficient severity.

WARNING

To reduce the risk of serious injury or death from inflating front airbags, take the following precautions:

- Seat belts must be worn at all times to help keep occupants positioned properly.
 - Move your seat as far back as possible from front airbags, while still maintaining control of the vehicle.
 - Never lean against the door or center console.
 - Hold the steering wheel at the 9 o'clock and 3 o'clock positions, to minimize the risk of injuries to your hands and arms.
 - Do not allow the front passenger to place their feet or legs on the dashboard.
 - No objects (such as crash pad cover, cellular phone holder, cup holder, perfume or stickers) should be placed over or near the airbag modules on the steering wheel, instrument panel, windshield glass, and the front passenger's panel above the glove box. Such objects could cause harm if the vehicle is in a crash severe enough to cause the airbags to deploy.
 - Do not attach any objects on the front windshield and inside mirror.
-

Passenger's front airbag ON/OFF switch

ⓘ If equipped

The purpose of the switch is to disable the passenger's front airbag in order to transport occupants who are at increased risk for airbag-related injury due to age, size, or medical condition.

To deactivate the passenger's front airbag:



[A] Passenger airbag ON
[B] Passenger airbag OFF



Insert the key or a similar rigid device into the passenger's front airbag ON/OFF switch and turn it to the OFF position [B]. The passenger airbag OFF indicator (ⓘ) will illuminate and stay on until the passenger's front airbag is reactivated.

To reactivate the passenger's front airbag:



Insert the key or a similar rigid device into the passenger's front airbag ON/OFF switch and turn it to the ON position [A]. The passenger airbag ON indicator (ⓘ) will illuminate.

i Information

The passenger's front airbag ON/OFF indicator generally illuminates for about 4 seconds after the Start/Stop button is in the ON position. But, if the Start/Stop button is pressed to the ON position within 3 minutes after the vehicle was turned off, the indicator will not illuminate.

WARNING

Never allow an adult passenger to ride in the front passenger seat when the passenger airbag OFF indicator is illuminated. During a collision, the airbag will not inflate if the indicator is illuminated. Turn on the passenger's front airbag or have your passenger move to the rear seat.

WARNING

If the passenger's front airbag ON/OFF switch malfunctions, the following conditions may occur:

- The airbag warning light (⚠️) on the instrument cluster will illuminate.
- The passenger airbag OFF indicator (⚠️) will not illuminate and the ON indicator (⚠️) will come on. The passenger's front airbag will inflate in a frontal impact even though the passenger's front airbag ON/OFF switch is set to the OFF position.
- We recommend that an authorized HYUNDAI dealer inspect the passenger's front airbag ON/OFF switch and the SRS airbag system as soon as possible.

Side airbags and front center side airbag

 if equipped

Side airbag



Front center side airbag



Your vehicle is equipped with a side airbag in each front seat. The purpose of the airbag is to provide the vehicle's additional protection than that offered by the seat belt alone.

The side airbags are designed to deploy during certain side impact collisions, depending on the crash severity.

For vehicles equipped with a rollover sensor the side and/or curtain airbags and pre-tensioners on both sides of the vehicle may deploy if a rollover or possible rollover is detected.

The side airbags and front center side airbag are not designed to deploy in all side impact or rollover situations.

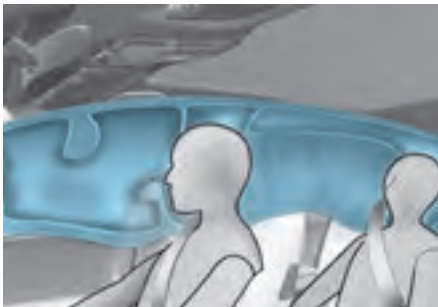
WARNING

To reduce the risk of serious injury or death from an inflating side airbag, take the following precautions:

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.
- Do not use any accessory seat covers. This could reduce or prevent the effectiveness of the system.

- Do not hang other objects except clothes. In an accident it may cause vehicle damage or personal injury especially when airbag is inflated.
- Do not place any objects over the airbag or between the airbag and yourself. Also, do not attach any objects around the area the airbag inflates such as the door, side door glass, front and rear pillar.
- Do not place any objects between the door and the seat. They may become dangerous projectiles if the side airbag inflates.
- Do not install any accessories on the side or near the side airbags.
- Do not cause impact to the doors when the Start/Stop button is in the ON or START position as this may cause the side airbags to inflate.
- If the seat or seat cover is damaged, we recommend that the system be serviced by an authorized HYUNDAI dealer.

Curtain airbags



Curtain airbags are located along both sides of the roof rails above the front and rear doors.

They are designed to help protect the heads of the front seat occupants and the rear outboard seat occupants in certain side impact collisions.

The curtain airbags are designed to deploy during certain side impact collisions, depending on the crash severity.

For vehicles equipped with a rollover sensor the side and/or curtain airbags and pre-tensioners on both sides of the vehicle may deploy if a rollover or possible rollover is detected.

The curtain airbags are not designed to deploy in all side impact or rollover situations.

WARNING

To reduce the risk of serious injury or death from an inflating curtain airbag, take the following precautions:

- All seat occupants must wear seat belts at all times to help keep occupants positioned properly.
 - Properly secure Child Restraint System as far away from the door as possible.
 - Do not place any objects over the airbag. Also, do not attach any objects around the area the airbag inflates such as the door, side door glass, front and rear pillar, roof side rail.
 - Do not hang other objects except clothes, especially hard or breakable objects. In an accident, it may cause vehicle damage or personal injury.
 - Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.
 - Do not attempt to open or repair the side curtain airbags yourself. If necessary, we recommend that the airbag be inspected by an authorized HYUNDAI dealer.
-

How does the airbags system operate?

The SRSCM (Supplemental Restraint System Control Module) continually monitors all SRS components while the Start/Stop button is ON to determine if a crash impact is severe enough to require airbag deployment or pre-tensioner seat belt deployment.

During a moderate to severe frontal collision, sensors will detect the vehicle's rapid deceleration. If the rate of deceleration is high enough, the control unit will inflate the front airbags, at the time and with the force needed.

The front airbags help protect the driver and front passenger by responding to frontal impacts in which seat belts alone cannot provide adequate restraint. When needed, the side airbags help provide protection in the event of a side impact or rollover by supporting the side upper body area.

- Airbags are activated (able to inflate if necessary) only when the Start/Stop button is in the ON or START position, and it can be activated within about 3 minutes after the vehicle is turned off.
- Airbags inflate in the event of certain frontal or side collisions to help protect the occupants from serious physical injury.

- Generally, airbags are designed to inflate based upon the severity of a collision, its direction, or etc. These two factors determine whether the sensors produce an electronic deployment/inflation signal.
- The front airbags will completely inflate and deflate in an instant. It is virtually impossible for you to see the airbags inflate during an accident. It is much more likely that you will simply see the deflated airbags hanging out of their storage compartments after the collision.
- In addition to inflating in serious side collisions, vehicles equipped with a rollover sensor, side and/or curtain airbags and front center side airbag will inflate if the sensing system detects a rollover.

When a rollover is detected, curtain airbags will remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts. (if equipped with a rollover sensor)

- To help provide protection, the airbags must inflate rapidly. The speed of airbag inflation is a consequence of extremely short time in which to inflate the airbag between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of airbag design.

However, the rapid airbag inflation can also cause injuries which can include facial abrasions, bruises and broken bones because the inflation speed also causes the airbags to expand with a great deal of force.

- There are even circumstances under which contact with the airbag can cause fatal injuries, especially if the occupant is positioned excessively close to the airbag.

You can take steps to reduce the risk of being injured by an inflating airbag. The greatest risk is sitting too close to the airbag. An airbag needs space to inflate. It is recommended that drivers sit as far as possible between the center of the steering wheel and the chest while still maintaining control of the vehicle.

Driver's front airbag (1)



When the SRSCM detects a sufficiently severe impact to the front of the vehicle, it will automatically deploy the front airbags.

Driver's front airbag (2)



Driver's front airbag (3)



Upon deployment, tear seam molded directly into the pad cover will separate under pressure from the expansion of the airbags. Further opening of the covers allows full inflation of the airbags.

A fully inflated airbag, in combination with a properly worn seat belt, slows the driver's or the front passenger's forward motion, reducing the risk of head and chest injury.

Passenger's front airbag



After complete inflation, the airbag immediately starts deflating, enabling the driver to maintain forward visibility and the ability to steer or operate other controls.

 WARNING

To prevent objects from becoming dangerous projectiles when the passenger's airbag inflates:

- Do not install or place any objects (drink holder, CD holder, stickers, etc.) on the front passenger's panel above the glove box where the passenger's airbag is located.
- Do not install a container of liquid air freshener near the instrument cluster or on the instrument panel surface.

What to expect after an airbag inflates

After a frontal or side airbag inflates, it will deflate very quickly. Airbag inflation will not prevent the driver from seeing out of the windshield or being able to steer. Curtain airbags may remain partially inflated for some time after they deploy.

 WARNING

After an airbag inflates, take the following precautions:

- Open your windows and doors as soon as possible after impact to reduce prolonged exposure to the smoke and powder released by the inflating airbag.
- Do not touch the airbag storage area's internal components immediately after an airbag has inflated. The parts that come into contact with an inflating airbag may be very hot.
- Always wash exposed skin areas thoroughly with cold water and mild soap.
- We recommend to have an authorized HYUNDAI dealer inspect your vehicle and replace components as required before operating your vehicle again. Airbags are designed to be used only once.

Noise and smoke from inflating airbag

When the airbags inflate, they make a loud noise and may produce smoke and powder in the air inside of the vehicle. This is normal and is a result of the ignition of the airbag inflator. After the airbag inflates, you may feel substantial discomfort in breathing because of the contact of your chest with both the seat belt and the airbag, as well as from breathing the smoke and powder. The powder may aggravate asthma for some people. If you experience breathing problems after an airbag deployment, seek medical attention immediately.

Though the smoke and powder are nontoxic, they may cause irritation to the skin, eyes, nose, throat, etc. If this is the case, wash and rinse with cold water immediately and seek medical attention if the symptoms persist.

Do not install a Child Restraint System on the front passenger seat



Never install a Child Restraint System in the front passenger seat, unless the airbag is deactivated

WARNING

NEVER use a rearward facing Child Restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.

SRS warning light



The SRS (Supplemental Restraint System) airbag warning light on the instrument panel displays the airbag symbol depicted in the illustration. The system checks the airbag electrical system for malfunctions. The light indicates that there is a potential problem with your airbag system, which could include your side and/or curtain airbags used for rollover protection (if equipped with rollover sensor).

WARNING

If your SRS malfunctions, the airbag may not inflate properly during an accident increasing the risk of serious injury or death.

If any of the following conditions occur, your SRS is malfunctioning:

- The light does not turn on for approximately three to six seconds when the Start/Stop button is in the ON position.
- The light stays on after illuminating for approximately three to six seconds.
- The light comes on while the vehicle is in motion.
- The light blinks when the vehicle is running.

We recommend that an authorized HYUNDAI dealer inspect the SRS as soon as possible if any of these conditions occur.

Why didn't my airbag go off in a collision?

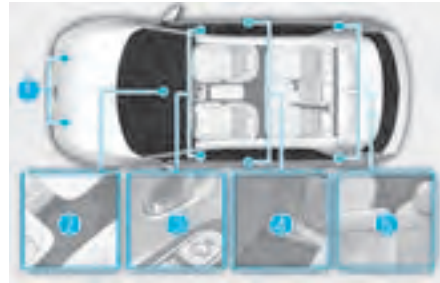
There are certain types of accidents in which the airbag would not be expected to provide additional protection. These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts. Damage to the vehicle indicates a collision energy absorption, and is not an indicator of whether or not an airbag should have inflated.

Airbag collision sensors

WARNING

To reduce the risk of an airbag deploying unexpectedly and causing serious injury or death:

- Do not hit or allow any objects to impact the locations where airbags or sensors are installed.
- Do not perform maintenance on or around the airbag sensors. If the location or angle of the sensors is altered, the airbags may deploy when they should not or may not deploy when they should.
- Do not install bumper guards with non-genuine HYUNDAI or non-equivalent parts. It may adversely affect the collision and airbag deployment performance.
- Move the Start/Stop button to the OFF or ACC position and wait for 3 minutes when the vehicle is being towed to prevent inadvertent airbag deployment.
- We recommend that all airbag repairs are conducted by an authorized HYUNDAI dealer.



- (1) Front impact sensor
- (2) SRS control module / Rollover sensor
- (3) Side impact sensor (Pressure)
- (4) Side impact sensor (Acceleration)
- (5) Side impact sensor (Acceleration)

Airbag inflation conditions

Front airbags



Front airbags are designed to inflate in a frontal collision depending on the severity of impact of the front collision.

Side and curtain airbags and front center side airbag



Side and curtain airbags and the front center side airbag are designed to inflate when an impact is detected by side collision sensors depending on the severity of impact resulting from a side impact collision.

Although the driver's and front passenger's airbags are designed to inflate in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side and curtain airbags and the front center side airbag are designed to inflate in side impact collisions, but they may inflate in other collisions if the side impact sensors detect a sufficient impact.

Also, the side and curtain airbags and the front center side airbag are designed to inflate when a rollover is detected by a rollover sensor (if equipped with rollover sensor).

If the vehicle chassis is impacted by bumps or objects on unimproved roads, the airbags may deploy. Drive carefully on unimproved roads or on surfaces not designed for vehicle traffic to prevent unintended airbag deployment.

Airbag non-inflation conditions



In certain low-speed collisions the airbags may not deploy. The airbags are designed not to deploy in such cases because they may not provide benefits beyond the protection of the seat belts.



Front airbags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated airbags would not provide any additional benefit.



Front airbags may not inflate in side impact collisions, because occupants move in the direction of the collision, and thus in side impacts, front airbag

deployment would not provide additional occupant protection.

However, side and curtain airbags and front center side airbag may inflate depending on the severity of impact.



In an angled collision, the force of impact may direct the occupants in a direction where the airbags would not be able to provide any additional benefit, and thus the sensors may not deploy any airbags.



Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to "ride" under a vehicle with a higher ground clearance. Airbags may not inflate in this "underride" situation because deceleration forces that are detected by sensors may be significantly reduced by such "underride" collisions.



Front airbags may not inflate in rollover accidents because front airbag deployment would not provide additional occupant protection.

i Information

With rollover sensor

The side and curtain airbags and front center side airbag may inflate in a rollover situation, when it is detected by the rollover sensor.

i Information

Without rollover sensor

The side and/or curtain airbags and the front center side airbag may inflate when the vehicle is rolled over by a side impact collision, if the vehicle is equipped with side and/or curtain airbags.



Airbags may not inflate if the vehicle collides with objects such as utility poles or trees, where the point of impact is concentrated and the collision energy is absorbed by the vehicle structure.

SRS care

The SRS is virtually maintenance-free and there are no parts you can safely service by yourself. If the SRS airbag warning light does not illuminate when the Start/Stop button is in the ON position, or continuously remains on, we recommend that the system be immediately inspected by an authorized HYUNDAI dealer.

We recommend any work on the SRS system, such as removing, installing, repairing, or any work on the steering wheel, the front passenger's panel, front seats and roof rails be performed by an authorized HYUNDAI dealer. Improper handling of the SRS system may result in serious personal injury.

WARNING

To reduce the risk of serious injury or death take the following precautions:

- Do not attempt to modify or disconnect the SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure.
 - Do not place objects over or near the airbag modules on the steering wheel, instrument panel, and the front passenger's panel above the glove box.
 - Clean the airbag pad covers with a soft cloth moistened with plain water. Solvents or cleaners could adversely affect the airbag covers and proper deployment of the system.
 - We recommend that inflated airbags be replaced by an authorized HYUNDAI dealer.
 - If components of the airbag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. We recommend that you consult an authorized HYUNDAI dealer for the necessary information. Failure to follow these precautions could increase the risk of personal injury.
-

Additional safety precautions

Passengers should not move out of or change seats while the vehicle is moving. A passenger who is not wearing a seat belt during a crash or emergency stop can be thrown against the inside of the vehicle, against other occupants, or be ejected from the vehicle.

Do not use any accessories on seat belts. Devices claiming to improve occupant comfort or reposition the seat belt can reduce the protection provided by the seat belt and increase the chance of serious injury in a crash.

Do not modify the front seats.

Modification of the front seats could interfere with the operation of the supplemental restraint system sensing components or side airbags.

Do not place items under the front seats.

Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses.

Do not cause impact to the doors.

Impact to the doors when the Start/Stop button is in the ON or START position may cause the airbags to inflate.

Adding equipment to or modifying your airbag equipped vehicle

If you modify your vehicle by changing your vehicle's frame, bumper system, front end or side sheet metal or ride height, this may affect the operation of your vehicle's airbag system.

Airbag warning labels



Airbag warning labels are attached to alert the passengers of potential risks of the airbag system.

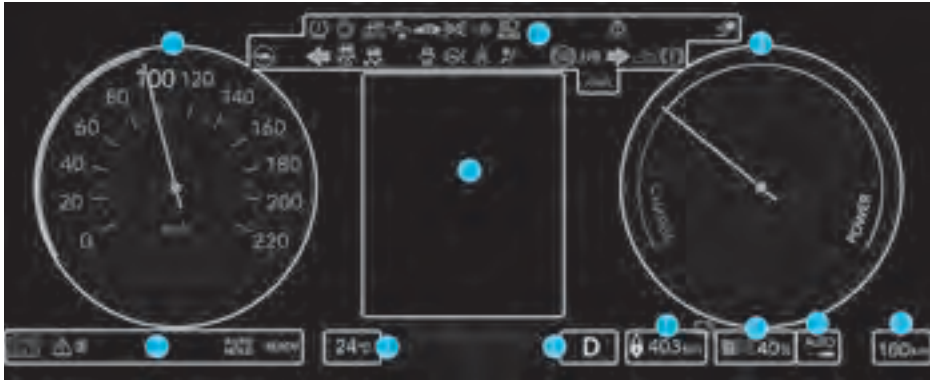
Be sure to read all of the information about the airbags that are installed on your vehicle in this Owner's Manual.

4. Instrument cluster

Instrument cluster	4-2
Instrument cluster control.....	4-4
Gauges and meters.....	4-4
Gear shift indicator	4-7
Warning and indicator lights.....	4-8
Cluster display messages.....	4-25
Cluster display	4-29
Cluster display control.....	4-29
View modes	4-29
Vehicle settings (infotainment system)	4-33
Setting your vehicle	4-33

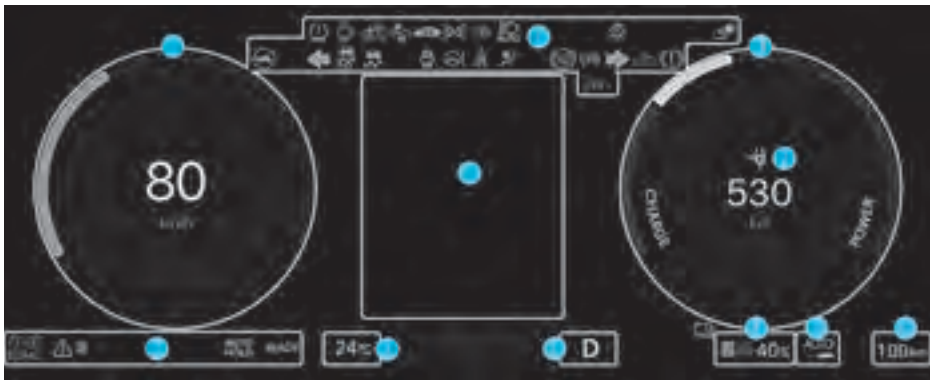
Instrument cluster

Type A



The actual cluster in the vehicle may differ from the illustration.

Type B



The actual cluster in the vehicle may differ from the illustration.

Type C



The actual cluster in the vehicle may differ from the illustration.
For more information, refer to "Gauges and meters" section in this chapter.

- (1) Speedometer
- (2) Warning indicator light
- (3) Power/Charge gauge
- (4) Outside temperature
- (5) Cluster display
- (6) Gear shift indicator
- (7) Distance to empty
- (8) Battery SOC (State of Charge) gauge
- (9) Regenerative braking level indicator
- (10) Odometer

Instrument cluster control

Instrument cluster theme selection

Infotainment system

You can adjust the theme of the instrument cluster in the infotainment system. When Start/Stop button is in the ON position, select **Settings > Cluster/Head-up display > Cluster theme selection**.

Instrument panel illumination

Infotainment system

You can adjust the brightness of the instrument panel illumination in the infotainment system. Press the **SETUP** button, and then select **Cluster/Head-up display > Brightness**.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

⚠ WARNING

Never adjust the instrument cluster while driving. This could result in loss of control and lead to an accident that may cause death, serious injury, or vehicle damage.

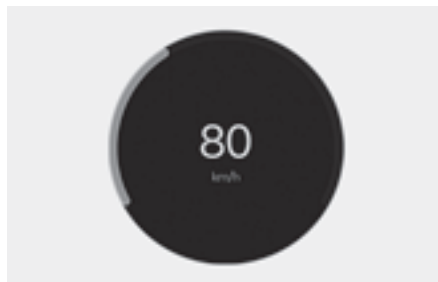
Gauges and meters

Speedometer

Type A



Type B



The speedometer indicates the speed of the vehicle and is calibrated in kilometers per hour (km/h) and/or miles per hour (MPH).

Power/charge gauge

Type A



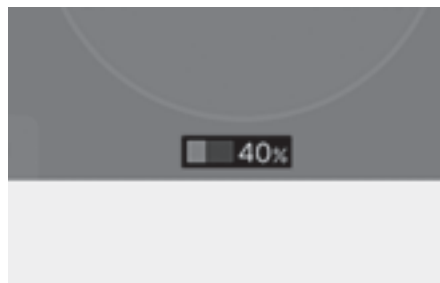
Type B



The Power/Charge Gauge shows the energy consumption rate of the vehicle and the charge/discharge status of the regenerative brakes.

- **POWER:** It shows the energy consumption rate of the vehicle when driving uphill or accelerating. The more electric energy is used, the higher the gauge level.
- **CHARGE:** It shows the charging status of the battery when it is being charged by the regenerative brakes (decelerating or driving on a downhill road). The more electric energy is charged, the lower the gauge level.

State of charge (SOC) gauge for high voltage battery



- The SOC gauge shows the charging status of the high voltage battery.
- The low percentage number on the indicator indicates that there is not enough energy in the high voltage battery. 100% indicates that the driving battery is fully charged.
- When driving on highways or motorways, make sure to check in advance if the driving battery is charged enough.

When the remaining battery is lower than 10 % on the SOC gauge, the warning light (⚡) turns ON to alert you of the battery level.

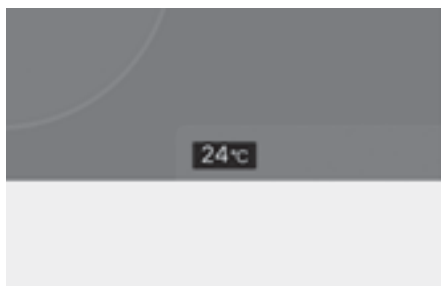
When the warning light (⚡) turns ON, the vehicle can drive an additional 30-40 km (18-25 mi.) depending on the driving speed, heater/air conditioner, weather, driving style, and other factors. Charging is required.

NOTICE

When the high voltage battery level is low, the Power Down indicator light illuminates and the vehicle power is limited.

Charge the battery immediately since your vehicle may not be driven, or may roll back on a slope with the indicator light illuminated.

Outside temperature gauge



The outside ambient temperature appears in the lower portion of the cluster display. The temperature reads in Celsius or Fahrenheit depending on the units selected from in the infotainment system.

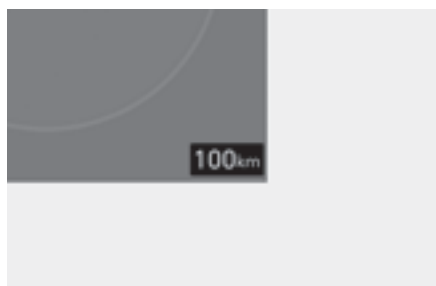
Press the **SETUP** button, and then select **General > Units > Temperature Unit**.

Both the temperature unit on the cluster display and climate control screen will change.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

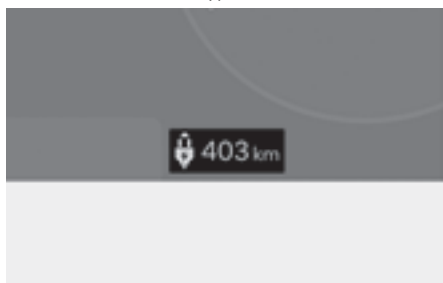
Odometer



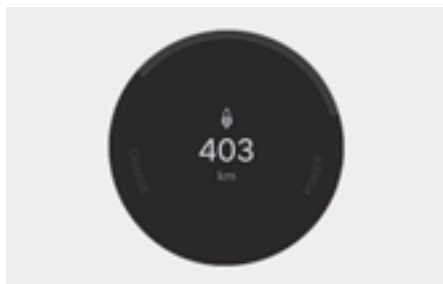
The odometer indicates the total distance that the vehicle has been driven and is used to determine when periodic maintenance is required.

Distance to empty

Type A



Type B



The distance to empty is the estimated distance the vehicle can be driven with the remaining electric energy.

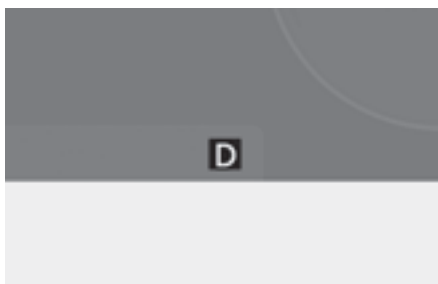
- The distance to empty differs depending on which drive mode (ECO/NORMAL/ SPORT) is selected.

For more detailed information, refer to 'Checking electric vehicle driving information' in chapter 1.

i Information

- The distance to empty may differ from the actual driving distance as it is an estimate of the available driving distance.
- The distance to empty may differ significantly based on driving conditions, driving habits, and condition of the vehicle.
- If the vehicle is not on level ground or the battery power has been interrupted, the distance to empty function may not operate correctly.

Gear shift indicator



The gear shift indicator in the lower portion of the cluster display indicates the current rotary shifter position (D, N, R) or P (Park).

Regenerative braking level indicator

Type A



Type B



The regenerative brake indicates the level of the regenerative braking that you set. And it also indicates Smart regenerative system's operation status.

For more details, refer to the "Regenerative braking system" and "Smart regeneration system" in chapter 6.

Warning and indicator lights

i Information

Make sure that all warning lights are OFF after starting the vehicle. If any light is still ON, this indicates a situation that needs attention.

Ready indicator

READY

This indicator illuminates:

When the vehicle is ready to be driven.

- ON: Normal driving is possible.
- OFF: Normal driving is not possible, or a problem has occurred.
- Blinking: Emergency driving.

When the ready indicator goes OFF or blinks, there is a problem with the system. In this case, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

Service warning light**This warning light illuminates:**

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- When there is a problem with related parts of the electric vehicle control system, such as sensors, etc.

When the warning light illuminates while driving, or does not go OFF after starting the vehicle, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

Power down indicator light**This indicator light illuminates:**

When the power is limited for the safety of the high-powered parts of an electric vehicle. The power is limited for the following reasons.

- The high voltage battery level is too low or voltage is decreasing.
- The temperature of the high voltage battery is too high or too low.
- The temperature of the motor is high.

NOTICE

- Do not accelerate or start the vehicle suddenly when the power down indicator light is ON.
- Your vehicle may not be driven, or may roll back on a slope with the indicator light ON due to the limitation of vehicle power.

i Information

Unless both the Service warning light and Power down indicator light illuminate at the same time, it is not a failure.

Charging connector indicator light



This warning light indicates the connection status of the charging connector. When the charging connector is connected to the vehicle, the green light illuminates for about 1 minute.

High voltage battery level warning light



This warning light illuminates:

When the high voltage battery level is low.

Charge the high voltage battery immediately.

Seat belt warning light



This warning light informs the driver that the seat belt is not fastened.

For more details, refer to "Seat belts" section in chapter 3.

Airbag warning light



This warning light illuminates:

- When you set the Start/Stop button to the ON position. It illuminates for 3-6 seconds and then goes off.
- When there is a malfunction with the Safety Restraint System (SRS).

If the Airbag warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Regenerative brake warning light**This warning light illuminates:**

When the regenerative brake does not operate and the brake does not perform well. This causes the Brake warning light (red) and Regenerative Brake warning light (yellow) to illuminate simultaneously.

If this occurs, drive safely and we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

The operation of the brake pedal may be more difficult than normal and the braking distance may increase.

Parking brake & brake fluid warning light**This warning light illuminates:**

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off once the parking brake is released.
- When the parking brake is applied.
- When the brake fluid level in the reservoir is low.
 - If the warning light illuminates with the parking brake released, it indicates the brake fluid level in the reservoir is low.

If the brake fluid level in the reservoir is low:

1. Drive carefully to the nearest safe location and stop your vehicle.
2. With the vehicle stopped, check the brake fluid level immediately and add fluid as required (For more details, refer to "Brake fluid" section in chapter 9). After adding brake fluid, check all brake components for fluid leaks. If a brake fluid leak is found, or if the warning light remains on, or if the brakes do not operate properly, do not drive the vehicle. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Dual-diagonal braking system

Your vehicle is equipped with dual-diagonal braking system. This means you still have braking on two wheels even if one of the dual systems should fail.

With only one of the dual systems working, more than normal pedal travel and greater pedal pressure is required to stop the vehicle.

Also, the vehicle will not stop in as short a distance with only a portion of the brake system is working.



WARNING

If the parking brake warning light illuminates with the parking brake released, it indicates that the brake fluid level is low. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Anti-lock Brake System (ABS) warning light



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the ABS.

The hydraulic braking system still operates even if there is a malfunction with the ABS. If the ABS warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Electronic Brake Force Distribution (EBD) system warning light



These two warning light illuminate at same time while driving:

When the ABS and brake system does not work normally.

If both the ABS warning light and the Parking Brake warning light remain illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

! WARNING

When both ABS and Parking Brake warning lights are on, the brake system does not work normally and you may experience an unexpected and dangerous situation during sudden braking.

Avoid high speed driving and abrupt braking.

We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

i Information

When the ABS warning light is on or both ABS and Parking Brake warning lights are on, the speedometer, odometer, or tripmeter may not work. Also, the MDPS warning light may illuminate and the steering effort may increase or decrease.

Motor Driven Power Steering (MDPS) warning light



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the Motor Driven Power Steering.

If the MDPS warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Master warning light



This warning light illuminates:

When there is a malfunction in operation in any of the following systems:

- Forward Collision-Avoidance Assist malfunction (if equipped)
- Forward Collision-Avoidance Assist radar blocked (if equipped)
- Blind-Spot Collision-Avoidance Assist malfunction (if equipped)
- Blind-Spot Collision-Avoidance Assist radar blocked (if equipped)
- LED headlight malfunction (if equipped)
- High Beam Assist malfunction (if equipped)
- Smart Cruise Control malfunction (if equipped)
- Smart Cruise Control radar blocked (if equipped)
- Lane Following Assist malfunction (if equipped)
- Low washer fluid (if equipped)
- Tire Pressure Monitoring System (TPMS) malfunction

If the issue is resolved, the Master Warning Light turns off.

Electronic Parking Brake (EPB) warning light

EPB

This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with EPB.

If the EPB warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

***i* Information**

The Electronic Parking Brake (EPB) warning light may illuminate when the Electronic Stability Control (ESC) indicator light comes on to indicate that ESC is not working properly. This does not indicate malfunction of EPB.

12 V Battery charging system warning light



This warning light illuminates:

When there is a malfunction with electrical charging system.

If there is a malfunction with electrical charging system:

1. Drive carefully to the nearest safe location and stop your vehicle.
2. Turn the vehicle off and check the electrical charging system.

If the Charging system warning light remains illuminated whilst driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Low tire pressure warning light



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- When one or more of your tires are significantly under-inflated. (The location of the under-inflated tires are displayed on the cluster display.)

For more information, refer to "Tire Pressure Monitoring System (TPMS)" section in chapter 8.

Low washer fluid warning light



This warning light illuminates:

When the washer fluid level in the reservoir is nearly empty.

Have the washer fluid reservoir refilled.

Forward safety warning light

 if equipped



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Yellow: When Forward Safety of Forward Collision-Avoidance Assist is deselected, disabled, or a malfunction is detected.

If the yellow warning light remains on after the sensor has been uncovered or unblocked when the Forward Safety is set, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This warning light blinks:

- Red: When Forward Safety or Forward Cross-Traffic Safety function is operating.

For more information, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

Emergency steering warning light

 if equipped



This warning light illuminates:

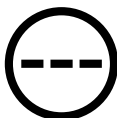
- When the Start/Stop button is in the ON position, the yellow warning light illuminates for about 3 seconds and then goes off.
- Continuously Yellow: When Forward/Side Safety is deselected or Forward Collision-Avoidance Assist is disabled/malfunctioning
- Blinking Red: When Forward/Side Safety of Forward Collision-Avoidance Assist is operating

If the yellow warning light is still on even after removing foreign material from the front of the sensors after Forward Safety select in settings, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

For more information, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

Intelligent Speed Limit Assist indicator light

 If equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position, the yellow warning light illuminates for about 3 seconds and then goes off.
- Yellow: When Intelligent Speed Limit Assist is disabled, the front view camera is blocked, or a malfunction is detected.

If the yellow indicator light remains on after the front view camera has been uncovered or unblocked, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

For more information, refer to "Intelligent Speed Limit Assist (ISLA)" section in chapter 7.

Inattentive Driving warning light

 If equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Yellow: When Driver Attention Warning is disabled or a malfunction is detected.

If the yellow indicator light remains on after the front view camera has been uncovered or unblocked, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

- Yellow: When the Inattentive Driving Warning is operating.

For more information, refer to "Driver Attention Warning (DAW)" section in chapter 7.

Forward Attention Warning light

 if equipped



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- When Forward Attention Warning is disabled or a malfunction is detected.

If the warning light remains on after the in-cabin camera has been uncovered or unblocked, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This warning light blinks:

- Forward Attention Warning warns the driver to keep eyes on the road.

For more information, refer to the "Forward Attention Warning (FAW)" section in chapter 7.

Lane Following Assist indicator light

 if equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Green: When Lane Following Assist is operating.
- Gray: When Lane Following Assist operating conditions are not satisfied.

This indicator light blinks:

- White: When the steering wheel assist is canceled.

For more information, refer to "Lane Following Assist (LFA)" section in chapter 7.

Lane safety indicator light

 if equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Gray: When Lane Keeping Assist operating conditions are not satisfied.
- Green: When Lane Keeping Assist operating conditions are satisfied.
- Yellow: When Lane Safety is deselected, disabled, or a malfunction is detected.

If the yellow warning light remains on after the sensor has been uncovered or unblocked when Lane Safety is set, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

- Green: When Lane Keeping Assist is operating.

For more details, refer to "Lane Keeping Assist (LKA)" section in chapter 7.

4 Wheel Drive (4WD) warning light

 if equipped



This warning light illuminates:

Whenever there is a malfunction with the 4WD system.

If this occurs frequently, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Four Wheel Drive (4WD)" section in chapter 6.

LED headlight warning light

 if equipped



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3seconds and then goes off.
- Whenever there is a malfunction with the LED headlight.

If the LED headlight warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This warning light blinks:

Whenever there is a malfunction with a LED headlight related part.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

NOTICE

Driving with the LED headlight warning light on or blinking may reduce LED headlight life.

Icy road warning light

 if equipped



This warning light is to warn the driver the road may be icy.

When the temperature on the outside temperature gauge is approximately below 4°C (40°F), the Icy road warning light and Outside Temperature Gauge blinks and then illuminates. Also, the warning chime sounds 1 time.

You can activate or deactivate Icy Road Warning function from the Settings menu in the infotainment system screen. Select:

- **Settings > Cluster/Head-up display > Cluster > Content Selection > Icy Road Warning**

Information

- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
 - If the Icy Road warning light appears while driving, you should drive more attentively and safely refraining from over-speeding, rapid acceleration, sudden braking or sharp turning, etc.
-

Door open indicator light

 If equipped

**This indicator light illuminates:**

When any door or tailgate is left open.

 WARNING

Before driving the vehicle, confirm the door and tailgate are fully closed.

 CAUTION

The 12 V battery may discharge if you leave the vehicle with the Door Open indicator light illuminated.

Electronic Stability Control (ESC) indicator light**This indicator light illuminates:**

- When the Start/Stop button is in the ON position. It illuminates for about 3seconds and then goes off.
- Whenever there is a malfunction with ESC system.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

This indicator light blinks:

While ESC is operating.

For more information, refer to "Electronic Stability Control (ESC)" section in chapter 6.

**Electronic Stability Control (ESC)
OFF indicator light**



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- When you deactivate ESC system by pressing the ESC OFF button.

For more details, refer to "Electronic Stability Control (ESC)" section in chapter 6.

Immobilizer indicator light



This indicator light illuminates for up to 30 seconds:

When the vehicle detects the smart key in the vehicle with the Start/Stop button in the ACC or ON position.

- At this time, you can start the vehicle.
- The indicator light goes off after starting the vehicle.

This indicator light blinks for a few seconds:

When the smart key is not in the vehicle, you cannot start the vehicle.

This indicator light illuminates for a few seconds and goes off:

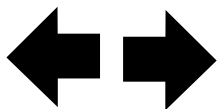
If the smart key is in the vehicle and the Start/Stop button is ON, but the vehicle cannot detect the smart key.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

Whenever there is a malfunction with the immobilizer system.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Turn signal indicator light**This indicator light blinks:**

When you operate the turn signal lever.

If any of the following occur, there may be a malfunction with the turn signal system.

- The turn signal indicator light illuminates but does not blink
- The turn signal indicator light blinks rapidly
- The turn signal indicator light does not illuminate at all

If any of these conditions occur, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

High beam indicator light**This indicator light illuminates:**

- When the headlights are on and the turn signal lever is moved to the high beam position
- When the turn signal lever is pulled into the Flash-to-Pass position.

Low beam indicator light**This indicator light illuminates:**

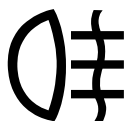
When the headlights are on.

Light ON indicator light**This indicator light illuminates:**

When the position lights or headlights are on.

Rear fog indicator light

 if equipped



This indicator light illuminates:
When the rear fog lights are on.

High Beam Assist indicator light

 if equipped



This indicator light illuminates:
When the high beam is on with the light switch in the AUTO position.

- White: When High Beam Assist is ready to operate.
- Green: When High Beam Assist is operating.

If your vehicle detects oncoming or preceding vehicles, High Beam Assist will switch the high beam to low beam automatically.

For more details, refer to "High Beam Assist (HBA)" section in chapter 5.

AUTO HOLD indicator light



This indicator light illuminates:

- White: When you activate Auto Hold by pressing the AUTO HOLD switch.
- Green: When you stop the vehicle completely by depressing the brake pedal with Auto Hold activated.
- Yellow: Whenever a malfunction with the Auto Hold is detected.

If the AUTO HOLD indicator light remains yellow while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

For more details, refer to "Electronic Parking Brake (EPB)" section in chapter 6.

Cluster display messages

Shift to P

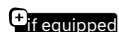
This message is displayed if you try to turn off the vehicle without the gear in the P (Park) position.

If this occurs, the Start/Stop button turns to the ACC position.

Low key battery

This message is displayed if the battery of the smart key is discharged while changing the Start/Stop button to the OFF position.

Press START button while turning wheel



This message is displayed if the steering wheel does not unlock normally when the Start/Stop button is pressed.

You should press the Start/Stop button while turning the steering wheel right and left.

Press brake pedal to start vehicle

This message is displayed if the Start/Stop button changes to the ACC position twice by pressing the button repeatedly without depressing the brake pedal.

You can start the vehicle by depressing the brake pedal and then pressing the Start/Stop button.

Key not in vehicle

This message is displayed if the smart key is not in the vehicle when you leave the vehicle with the Start/Stop button in the ON or Start position.

Always turn off the vehicle before leaving your vehicle.

Key not detected

This message is displayed if the smart key is not detected when you press the Start/Stop button.

Press START button again

This message is displayed if you were unable to start the vehicle when the Start/Stop button was pressed.

If this occurs, attempt to start the vehicle by pressing the Start/Stop button again.

If the warning message appears each time you press the Start/Stop button, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Press START button with key

This message is displayed if you press the Start/Stop button while the warning message "Key not detected" is displayed.

At this time, the immobilizer indicator light blinks.

Check BRAKE SWITCH fuse

This message is displayed if the brake switch fuse is disconnected.

You need to replace the fuse with a new one before starting the vehicle.

If that is not possible, you can start the vehicle by pressing the Start/Stop button for 10 seconds in the ACC position.

Shift to P to start vehicle

This message is displayed if you try to start the vehicle in any other position except P (Park).

Check virtual engine sound system

This message is displayed when there is a problem with the Virtual Engine Sound System (VESS).

In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Battery discharging due to external electrical devices

 if equipped

This message appears if the vehicle 12 V battery voltage is low or if a current draw is detected that could drain the vehicle battery.

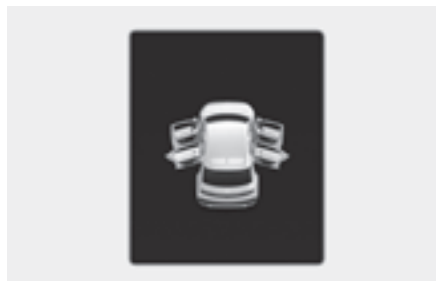
Do not connect any external electronic devices to the battery system or battery discharge may occur.

If this message appears on the cluster and there are no other external electronic devices connected to the vehicle, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Check smart key system

This message is displayed when there is a problem with the smart key system. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Door, Hood, Tailgate open indicator



This warning is displayed if any door or hood or tailgate is left open. The warning will indicate which door is open in the display.

CAUTION

Before driving the vehicle, you should confirm that the door/ hood/tailgate are fully closed.

Low tire pressure



This warning message is displayed if the tire pressure is low. The corresponding tire on the vehicle will be illuminated.

For more details, refer to "Tire Pressure Monitoring System (TPMS)" section in chapter 8.

Lights

Type A



Type B



This indicator displays which exterior light is selected using the lighting control.

You can activate or deactivate Wiper/Lights display function from the Settings menu in the infotainment system screen. Select **Settings** >

Cluster/Head-up display > Cluster > Content Selection > Wiper/Lights Display.

Wiper

Type A



Type B



This indicator displays which wiper speed is selected using the wiper control.

You can activate or deactivate Wiper/Lights display function from the Settings menu in the infotainment system screen. Select **Settings** >

Cluster/Head-up display > Cluster > Content Selection > Wiper/Lights Display.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Low washer fluid

 if equipped

This message is displayed if the washer fluid level in the reservoir is nearly empty. Have the washer fluid reservoir refilled.

Check haptic steering wheel system

 if equipped

This message is displayed if there is a problem with the haptic steering wheel system. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Check headlight

 if equipped

This message is displayed if the headlights are not operating properly. A lamp may need to be replaced.

Make sure to replace the burned out bulb with a new one of the same wattage rating.

Check turn indicator

 if equipped

This message is displayed if the turn signal lights are not operating properly.

Replace the burned out bulb with a new one with the same wattage rating.

Check headlight LED

 if equipped

This message is displayed if there is a problem with the LED headlight. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Check Active Air Flap system

 if equipped

This warning message appears in the following situations:

- There is a malfunction with the actuator flap.
- There is a malfunction with the actuator air flap controller.
- The air flap does not open.

When all of the above conditions are fixed, the warning disappears.

Cluster display

Cluster display control



The cluster display modes can be changed by using the control switches.

Switch	Function
	MODE button for changing View modes
	MOVE toggle switch for changing items
OK	SELECT/RESET switch for setting or resetting the selected item

View modes

View modes	Explanation
Driving Assist	This mode displays Driver Assistance system such as Lane Keeping Assist, Smart Cruise Control, and Lane Following Assist etc.
Turn by Turn	This mode displays the navigation guidance.
Utility	This mode displays driving information such as the trip distance, electric energy economy, etc.

The information provided may differ depending on which features are applicable to your vehicle.

Driving assist view



The status of Smart Cruise Control, Lane Following Assist, Highway Driving Assist, etc., is displayed when Driving Assist view is selected.

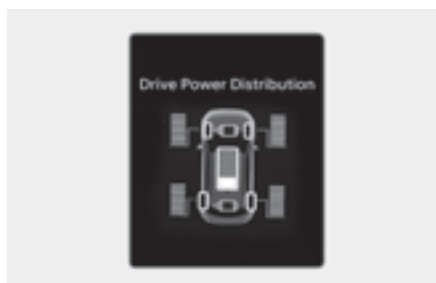
For more details, refer to each function information section in chapter 7.

Turn By Turn (TBT) view



Turn-by-turn navigation and distance/time to destination appear when Turn by Turn mode is selected.

Energy flow / Driving force distribution



- The electric vehicle system informs the drivers its energy flow in various operating modes.
- The distribution status of the driving power of the front and rear wheels are displayed when Auto 4WD mode is activated.

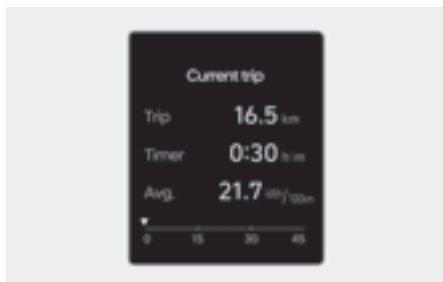
For more details, refer to "Drive mode integrated control system (4WD)" section in chapter 6.

Utility view

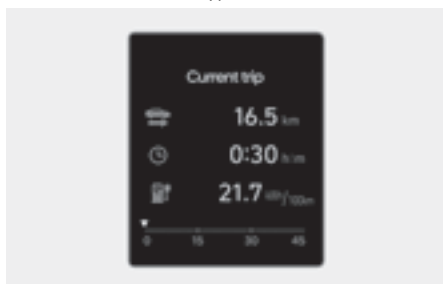
In the Utility view, using the toggle switch, you may change through items in the following order.

Current trip

Type A



Type B



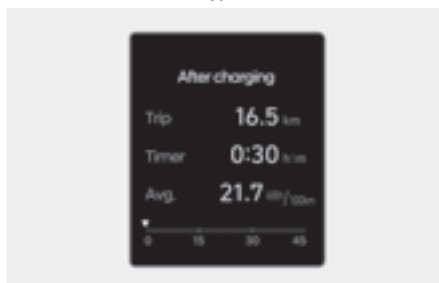
Trip distance, total driving time, average energy consumption, and instant energy consumption are displayed.

The information is combined for each ignition cycle. However, when the vehicle has been OFF for 3 minutes or longer the Drive Info screen is reset.

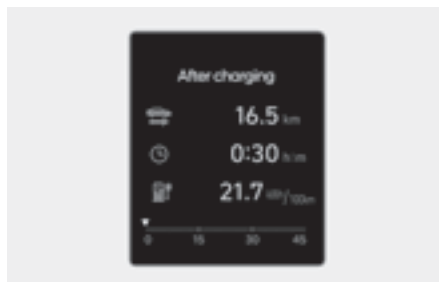
To reset manually, press the OK button on the steering wheel for more than 1 second when "Current trip" appears.

After Recharging

Type A



Type B

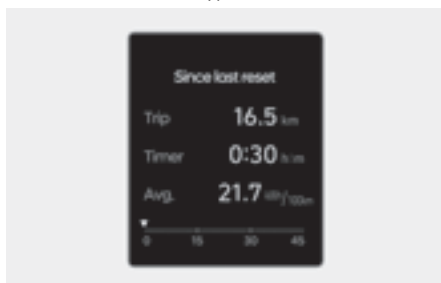


Trip distance, total driving time, average energy consumption, and instant energy consumption after the vehicle has been recharged are displayed.

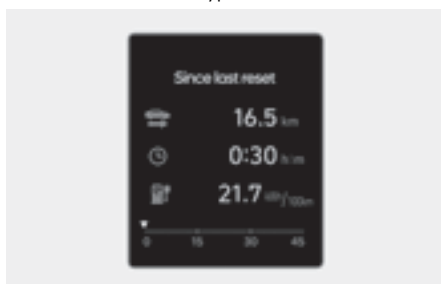
To reset manually, press the OK button on the steering wheel for more than 1 second when "After charging" appears.

Since last reset

Type A



Type B

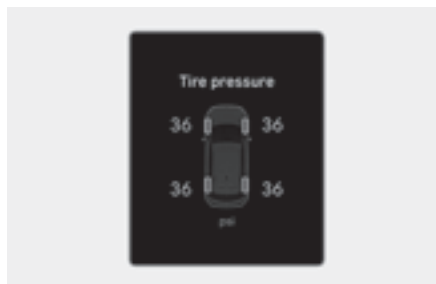


Accumulated trip distance, total driving time, and average energy economy are displayed.

The information is accumulated starting from the last reset.

To reset manually, press the OK button on the steering wheel for more than 1 second when "Since last reset" appears.

Tire pressure



The tire pressure of each tire is displayed. For more information, refer to "Tire Pressure Monitoring System (TPMS)" section in chapter 8.

Additional information display

Driver assistance



The current operation conditions of Manual Speed Limit Assist, Cruise Control, Smart Cruise Control, Lane Following Assist, Highway Driving Assist, etc. appears.

Vehicle settings (infotainment system)

Vehicle Settings in the infotainment system provides user options for a variety of settings including door lock/unlock features, convenience features, driver assistance settings, etc.

Vehicle Settings menu

- Driver Assistance
- Drive Mode
- Climate
- Seat
- Lights
- Door
- Digital key
- Convenience

The information provided may differ depending on which features are applicable to your vehicle.



WARNING

Do not operate the Vehicle Settings while driving. You may be distracted from the driving task and could collide.

Setting your vehicle



Select **Settings** > **Vehicle** to change the settings for features.



Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

5. Convenience features

Accessing your vehicle.....	5-6
Smart key.....	5-6
Immobilizer system.....	5-14
Hyundai Digital Key	5-15
Digital key (smartphone).....	5-15
Digital key (Card key).....	5-23
Used vehicle/Digital key maintenance.....	5-28
Limitations of the system.....	5-28
Declaration of Conformity.....	5-29
Door locks	5-30
Operating door unlocks from outside the vehicle (Manual type)	5-30
Operating door unlocks from outside the vehicle (Electric type)	5-30
Operating door locks from outside the vehicle (Manual type).....	5-31
Operating door locks from outside the vehicle (Electric type).....	5-32
Operating door lock/unlock from inside the vehicle.....	5-34
Automatic door lock and unlock features.....	5-37
Child-protector rear door locks	5-37
Electronic child safety lock	5-38
Theft-alarm system	5-39
Rear Occupant Alert (ROA)	5-41
Advanced Rear Occupant Alert (ROA)	5-42
System setting.....	5-42
System operation.....	5-42
System precautions	5-43
Declaration of Conformity.....	5-44
Integrated memory system	5-45
Storing memory positions	5-45
Recalling memory positions.....	5-46
Resetting the system.....	5-46
Seat easy access	5-47
Memory seat configurations.....	5-48
Storing memory positions	5-48
Recalling memory positions.....	5-49
Steering wheel	5-49
Motor Driven Power Steering (MDPS).....	5-49
Tilt/Telescopic steering	5-50

Heated steering wheel	5-51
Horn	5-52
Steering wheel grip sensor	5-52
Haptic warning/Steering wheel vibration warning.....	5-53
Mirrors.....	5-54
Inside rearview mirror	5-54
Outside rearview mirrors	5-63
Reverse parking aid.....	5-65
Digital side mirror (DSM)	5-67
Operating the digital side mirrors	5-68
DSM warnings and indicators.....	5-69
Displaying the guidelines.....	5-69
Adjusting the DSM cameras	5-70
Folding/Unfolding the DSM cameras	5-70
Switching to wide view when backing up	5-72
Setting the DSM screen brightness	5-73
DSM camera defroster.....	5-73
Windows	5-74
Power windows	5-75
Vision roof.....	5-79
Resetting the vision roof.....	5-81
Hood	5-82
Opening the hood.....	5-82
Closing the hood	5-83
Front trunk.....	5-83
Opening the front trunk	5-83
Closing the front trunk.....	5-84
Power tailgate	5-85
Power tailgate operating conditions.....	5-85
Operating the power tailgate	5-87
Setting the power tailgate	5-89
Resetting the power tailgate	5-90
Emergency tailgate safety release	5-91
Smart tailgate.....	5-91
Using smart tailgate	5-91

5. Convenience features

Deactivating smart tailgate.....	5-93
Detecting area.....	5-93
Electric charging door	5-94
Head-up display (HUD)	5-96
Head-up display settings	5-96
Head-up display information	5-97
Precautions while using the Head-up display	5-97
Vehicle system OTA update.....	5-98
Downloading software	5-98
Approving software update	5-98
Preparing software update.....	5-99
Updating software	5-99
Exterior lights.....	5-101
Lighting control.....	5-101
High beam operation.....	5-103
Turn signals and lane change signals	5-104
Rear fog light.....	5-105
Battery saver function	5-105
Headlight levelling device	5-105
Headlight delay function	5-106
Interior button lights.....	5-107
Daytime Running Light (DRL)	5-107
Intelligent Front-lighting System (IFS).....	5-107
System settings.....	5-107
System operation.....	5-108
System malfunction and limitations.....	5-109
High Beam Assist (HBA)	5-111
High Beam Assist settings	5-112
High Beam Assist operation	5-112
High Beam Assist malfunction and limitations.....	5-113
Interior lights.....	5-114
Interior lamp AUTO off.....	5-114
Front lights	5-115
Rear lamps.....	5-115
Vanity mirror lamp	5-116
Glove box lamp	5-116

Mood lighting.....	5-117
Front trunk lamp.....	5-117
Cargo area lamp.....	5-118
Wipers and washers.....	5-118
Front windshield wipers.....	5-120
Front windshield washers.....	5-121
Rear windshield wipers and washers.....	5-122
Rear windshield washers.....	5-123
Automatic climate control system.....	5-124
Automatic heating and air conditioning.....	5-125
Manual heating and air conditioning.....	5-126
System operation.....	5-133
System maintenance.....	5-135
Windshield defrosting and defogging.....	5-137
Automatic climate control system.....	5-138
Defogging logic.....	5-139
Rear window defroster.....	5-139
Climate control additional features.....	5-140
Air conditioner auto-drying.....	5-140
Auto defogging system.....	5-141
Auto dehumidify.....	5-143
Recirculating air when washer fluid is used.....	5-143
Recirculating air when entering a tunnel.....	5-144
Storage compartment.....	5-145
Center console storage.....	5-145
Glove box.....	5-146
Interior features.....	5-147
Cup holder.....	5-147
Sunvisor.....	5-148
Power outlet.....	5-148
USB charger.....	5-149
Cluster fascia side panel.....	5-150
Wireless smart phone charging system.....	5-151
Vehicle to load (V2L).....	5-153
Coat hook.....	5-154
Floor mat anchor(s).....	5-154

5. Convenience features

Rear side window sunshades	5-155
Cargo net holder	5-155
Cargo security screen	5-156
Infotainment system	5-157
USB Port.....	5-157
Antenna	5-158
Steering wheel remote controls	5-159
Infotainment system.....	5-159
Voice recognition	5-160
Bluetooth® Wireless Technology	5-160

Accessing your vehicle

Smart key

Type A



Type B



Your HYUNDAI uses a smart key that is used to lock or unlock the driver's and passenger's doors and the rear tailgate, and start the vehicle.

- (1) Door lock
- (2) Door unlock
- (3) Remote start
- (4) Tailgate open/close
- (5) Forward and reverse (if equipped)

Locking your vehicle (1)

Manual type



To lock your vehicle using the door handle button or the Smart Key:

1. Make sure all doors, the hood and the tailgate are closed.
 2. Press the Door Lock button (1) on the Smart Key. The hazard warning lights will blink with an alarm, and the doors will be locked.
- In addition, pushing the button on the door handle (the engraved part) while keeping the smart key will lock all doors.

Electric type (if equipped)



To lock your vehicle using the door handle touch sensor or the Smart Key:

1. Make sure all doors, the hood and the tailgate are closed.
 2. Press the Door Lock button (1) on the Smart key. The hazard warning lights will blink with an alarm, and the handles will retract back.
- In addition, touching the touch sensor on the door handle (the engraved part) while keeping the smart key will lock all doors and let the door handle to retract back.

i Information

- The outside rearview mirror will fold if 'On door unlock' is selected from the Settings menu in the infotainment system screen. Select:
 - **Settings > Vehicle > Lights > Welcome mirror > On door unlock.**
- The door handle touch sensor will only operate when the smart key is within 0.7-1 m (28-40 in.) from the outside door handle.
- Touching the door handle touch sensor does not unlock the doors. To unlock the doors, refer to the following page.
- Note that you cannot lock your vehicle using the door handle touch sensor if any of the following occur:
 - The Smart Key is in the vehicle.
 - The Start/Stop button is in ACC or ON position.
 - Any of the doors are open except for the tailgate.

WARNING

Do not leave the Smart Key in your vehicle with unsupervised children. Unattended children could press the Start/ Stop button and may operate power windows or other controls, or even make the vehicle move, which could result in serious injury or death.

Unlocking your vehicle (2)

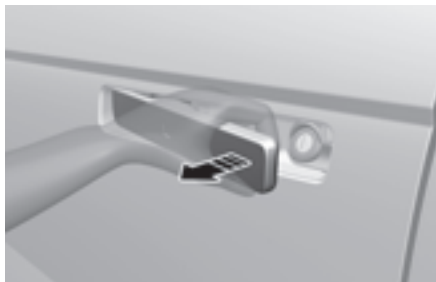
Manual type



To unlock your vehicle using the door handle button or the Smart Key:

1. Make sure you have the smart key in your possession.
2. Pushing the button on the door handle (engraved part) or press the Door Unlock button (2) on the smart key. All door handles will be unlocked and the hazard warning lights will blink twice.
3. After unlocking the doors, the doors will automatically re-lock after 30 seconds unless a door is opened.

Electric type (if equipped)



To unlock your vehicle using the door handle touch sensor or the Smart Key:

1. Make sure you have the smart key in your possession.
2. Touch the touch sensor on the door handle (engraved part) or press the Door Unlock button (2) on the smart key. All door handles will pop out and the doors will be unlocked and the hazard warning lights will blink twice.
3. After unlocking the doors, the doors will automatically re-lock after 30 seconds unless a door is opened.

i Information

- The outside rearview mirror will unfold if 'On Door Unlock' is selected from the Settings menu in the infotainment system screen. Select:
 - **Settings > Vehicle > Lights > Welcome mirror > On Door Unlock.**
 - The door handle touch sensor will only operate when the smart key is within 0.7-1 m (28-40 in.) from the outside door handle.
 - The doors may lock or unlock if the touch sensor of the outer door handle is recognized while washing your car or due to heavy rain.
 - The doors may not lock or unlock in the following situations.
 - If the touch sensor is touched with gloves on
 - If the door is suddenly approached
 - The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
-

i Information

During a car wash or rain, in order to minimize unintentional operation of the touch sensor, the touch sensor may become insensitive. This is not a malfunction.

i Information

Disable or enable the door lock/unlock chime

The driver can disable or enable the door lock or unlock chime using the smart key:

- Default condition: The chime is enabled (ON).
 - Disabling sound: Press the lock and unlock button for 4 seconds on the smart key to change from ON to OFF.
 - Enabling sound: Press the lock and unlock button for 4 seconds on the smart key to change from OFF to ON.
 - The hazard warning lights blink 4 times whenever the chime is disabled or enabled.
-

Smart key reminder

If the smart key is in the vehicle, and the door is locked with the central door lock/unlock button in the vehicle with a door open, the doors are not locked but unlocked again.

Remotely starting vehicle (3)

To start the vehicle remotely:

1. Press the door lock button on the smart key within 10 m (32 ft.) from the vehicle.
2. Press the Remote start button (3) on the smart key within 2 seconds from when you have pressed the door lock button. The vehicle starts.
3. To turn off the remote start function, press the Remote start button (3) once.

***i* Information**

- The vehicle must be in P (Park) for the remote start function to start.
 - The vehicle displays "**Smart key must be present to keep the vehicle running**" if you get in the vehicle without a registered smart key.
 - The vehicle turns off if you do not get in the vehicle within 10 minutes after remotely starting the vehicle.
 - The Remote start button (3) may not operate if the smart key is not within 10 m (32 ft.).
 - The vehicle does not remotely start if the vehicle hood or tailgate is opened.
-

Unlocking/Opening the tailgate (4)

To open the tailgate:

1. Have the smart key with you.
2. Press the tailgate open button on the vehicle or press and hold the Tailgate open/close button (4) on the smart key for more than 1 second. The hazard warning lights blink two times and the tailgate unlocks or opens.

To close the tailgate:

Press and hold the Tailgate open/close button (4) on the smart key to close the opened tailgate. If you release the button while the tailgate is being closed, it stops working and the chime sounds for about 5 seconds. (available with power tailgate)

***i* Information**

The tailgate open/close button will only operate when the smart key is within 1 m (40 in.) from the tailgate.

Forwarding and reversing (5)

 If equipped

Press the forward or reverse button on the smart key to remotely move the vehicle forward or backward. This feature is available only if the remote smart parking assist system is equipped.

For more information, refer to "Remote Smart Parking Assist 2 (RSPA 2)" section in chapter 7.

CAUTION

The smart key may not work in conditions as follows.

- When out of the operating range (around 10 m (32 ft.))
- When the battery of the smart key is low
- When radio waves are blocked by other cars or objects
- When the weather is very cold

Loss of a smart key

A maximum of three Smart Keys can be registered to a single vehicle. If you happen to lose your smart key, it is recommended that you should immediately take the vehicle and remaining keys to your authorized HYUNDAI dealer or tow the vehicle, if necessary.

Smart key precautions

- The smart key may not work if any of the following occur:
 - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
 - The smart key is near a cellular two way radio system or a cellular phone.
 - Another vehicle's smart key is being operated close to your vehicle.
 - The smart key is near any normal electronic devices or credit cards.
 - The vehicle battery is discharged.
 - Connecting an external device to the power outlet and placing the smart key near the external device.

If the smart key does not work correctly, open and close the door with the mechanical key. To start the vehicle, press the Start/Stop button directly with the smart key. If you have a problem with the smart key, we recommend that you contact an authorized HYUNDAI dealer.

If the smart key is in close proximity to your cellular phone, the signal could be blocked by your cellular phone's normal operational signals. This is specifically relevant when the phone is active such as making and receiving calls, text messaging, and/or sending/receiving emails. When possible, avoid keeping the smart key and your cellular phone in the same location such as pants or jacket pocket in order to avoid interference between the two devices.

- If your windows are tinted, especially with metallic window tint, it may cause frequency interference, reducing the smart key operating range.
- Make sure the smart key battery is inserted in the correct polarity before use. Using an improperly positioned battery may cause smart key failure or premature discharge of the battery.

NOTICE

- Keep the smart key away from electromagnetic materials that blocks electromagnetic waves to the key surface.
 - Always have the smart key with you when leaving the vehicle. If the smart key is left near the vehicle, the vehicle battery may be discharged.
-

Replacing the battery

If the Smart Key is not working properly, try replacing the battery with a new one.

Battery Type: CR2450

To replace the battery:

1. Insert a slim tool into the slot (1) and gently open the rear cover.



2. Remove the old battery and insert a new battery. Make sure the battery position is correct. An improperly positioned battery may discharge the battery, causing smart key failure.



3. Reinstall the rear cover of the smart key.

If you suspect your smart key might have sustained some damage or you feel your smart key is not working correctly, we recommended that you contact an authorized HYUNDAI dealer.

WARNING

This product contains a button battery.

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours. Keep batteries out of reach of children.

If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

i **Information**



An inappropriately disposed battery can be harmful to the environment and human health. Always dispose of a used battery according to your local law(s) or regulations.

i **Information**

For more information, refer to "IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542)" section in the owner's manual.

Immobilizer system

The immobilizer system helps protect your vehicle from theft. If an improperly coded key (or other device) is used, the vehicle is disabled.

When the Start/Stop button is pressed to the ON position, the immobilizer system indicator should come on briefly, then go off. If the indicator starts to blink, the system does not recognize the coding of the key.

Press the Start/Stop button to the OFF position, then to the ON position again.

The system may not recognize your key's coding if another immobilizer key or other metal object (e.g. key chain) is near the key. The vehicle may not start because the metal may interrupt the transponder signal from transmitting normally.

If the system repeatedly does not recognize the coding of the key, we recommend that you contact an authorized HYUNDAI dealer.

Do not attempt to alter this system or add other devices to it. Electrical problems could result that may make your vehicle inoperable.

WARNING

To prevent theft of your vehicle, do not leave spare keys anywhere in your vehicle. Your immobilizer password is a customer unique password and should be kept confidential.

NOTICE

The transponder in your key is an important part of the immobilizer system. It is designed to give years of trouble-free service, however you should avoid exposure to moisture, static electricity and rough handling. Immobilizer system malfunction could occur.

Hyundai Digital Key

 If equipped

Hyundai digital key provides convenience to the driver, which the driver can use to lock or unlock the driver and passenger doors or the tailgate and turn on the vehicle.

Digital key (smartphone)

Information

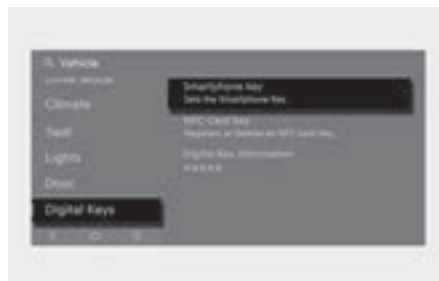
- Hyundai digital keys are only available on smartphone that support digital key functions, and digital key functions of smartphones are provide by smartphone manufacturers.
- Available smartphone brands and models can be found on smartphone manufactures' website or HYUNDAI website.
- Certain functions may not operate depending on whether the service is provided in the vehicle.
- Depending on the availability of service on the vehicle, some functions may not operated.

Setting your smartphone

To use the digital key (smartphone), download the Bluelink App and sign up Hyundai account and service.

For more information about Bluelink, refer to the infotainment system guide.

Registering your digital key (smartphone)



[A] Vehicle authentication pad (wireless charging pad)

1. Turn on the vehicle with a smart key and have your smart key with you in the vehicle.
2. Put the gear in P (Park), from the infotainment system Settings menu, select **Settings > Vehicle > Digital keys > Smartphone key > My smartphone key**.

3. After selecting **Digital key > Set up digital key** from the BlueLink App in the smartphone, register the digital key according to the guidance in the smartphone screen.

- Ultra Wide Band unsupported smartphone
 - Place your smartphone on the vehicle authentication pad (wireless charging pad) with the screen facing up.
 - The NFC Antenna position on Samsung device can be found in the following path: **Settings > Connections > NFC and contactless payments**.
 - The NFC Antenna position on Google Pixel phone can be found in the following path: **Settings > Connected devices > Connection preference > NFC**.
 - The NFC Antenna position on Apple iPhone is located at the top of the rear (A) and Apple WATCH is located at the center of the screen (B).



- Ensure that the NFC Antenna position on the smartphone is in contact with the vehicle authentication pad (wireless charging pad).
 - The location of the NFC Antenna on the smartphone may vary by phone model, so please contact the smartphone manufacturer for details.
 - NFC communication may not work for some smartphones depending on the internal structure of the smartphone. Move the smartphone to the left or right of the vehicle authentication pad (wireless charging pad) to operate.
- Ultra Wide Band supported smartphone
 - The digital key can be registered if the smartphone is inside the vehicle even without placing it on the vehicle authentication pad (wireless charging pad).

4. Press **Save** button in the infotainment system to start registration.

When the digital key (smartphone) is saved, a message appears on the infotainment system.

i Information

- If you want to register a different digital key (smartphone), refer to "Deleting your digital key (smartphone)" and delete the digital key (smartphone) before re-registering. An active Digital Key can be shared through the wallet app provided by the smartphone manufacturer.
- During the digital key saving process, the process may cancel when:
 - The smartphone is removed from the vehicle authentication pad (wireless charging pad)
 - The infotainment system is changed
 - The vehicle is turned off
 - The gear is shifted
- The registering process does not start if both smart keys are not in the vehicle.
- Some smartphones may not start the registering process depending on the internal structure. Move the smartphone to the left or right on the vehicle authentication pad (wireless charger pad) and try registering the smartphone.
- Ultra Wide Band (UWB) is a radio technology that can use a very low energy level for short-range, high-bandwidth communications over a large portion of the radio spectrum.

Using the digital key (smartphone)

Digital key touch control

The driver can lock or unlock the door by placing the smartphone on the outside door handle, and the vehicle can be started by placing the smartphone on the vehicle authentication pad (wireless charging pad).

i Information

The location of the NFC Antenna on the smartphone may vary by phone model, so please contact the smartphone manufacturer for details.

Digital key close proximity control

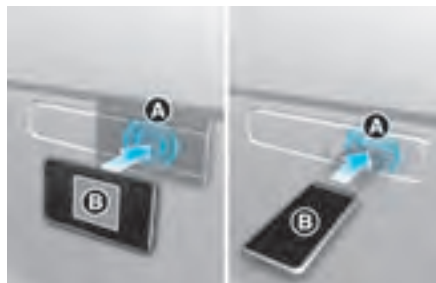
- If you have the smartphone in possession, the doors can be locked or unlocked without touching the smartphone to the door handle, but by touching the door lock/unlock sensor (engraved part) on the door handle. Also, the vehicle can be started by pressing the Start/Stop button without placing the smartphone on the vehicle authentication pad (wireless charging pad).
- When the smartphone and vehicle is connected by Bluetooth, the Door Lock/Unlock, and climate control functions are available using the wallet app provided by the smartphone manufacturer.

i Information

- The function is only available for Ultra Wide Band supported smartphone digital keys. To use the function, the smartphone's Bluetooth must be activated.
- The necessary distance between the smartphone and vehicle for Bluetooth connection may vary depending on the surroundings of the vehicle and smartphone.
- The Remote Start, Panic or Frunk open function may not be available depending on the country or vehicle type (hybrid, plug-in hybrid or electric vehicle).

Locking/Unlocking the doors

- Ultra Wide Band unsupported smartphone



[A] Door handle authentication pad
[B] NFC Antenna

- If the driver places the digital key (smartphone) NFC antenna to the driver's or passenger's door handle authentication pad (A) for more than 2 seconds, the door locks or unlocks.
 - If the **Two Press Unlock** feature is set, only the driver's door pops out and unlocks when the digital key (smartphone) is placed on the driver's door handle authentication pad (A). Place the digital key (smartphone) on the driver's door handle authentication pad once more within 4 seconds to unlock all doors.
- Ultra Wide Band supported smartphone
 - If you touch the door lock/unlock sensor (engraved part) on the door handle with the smart phone in possession, the door locks or unlocks.
 - If you approach the front door handle with the smartphone in possession when **On driver approach** is set, the door unlocks automatically.

After unlocking the doors, the doors are automatically re-locked after 30 seconds unless a door is opened.

If the smartphone digital key does not operate, try again after moving the smartphone away from the door handle authentication pad (more than 0.1 m (4 in.)).

i Information

- You cannot lock your vehicle using the digital key (smartphone) if any of the following occurs:
 - The smart key is in the vehicle.
 - The Start/Stop button is in the ACC or ON position.
 - Any of the doors, hood, or tailgate are open.
- The door may not unlock automatically if you stay near the vehicle for several minutes with the Ultra Wide Band supported smartphone in possession.
- If the smartphone is kept in the back pocket or bag, it may cause poor Bluetooth connection, or the door lock/unlock or vehicle start-up operation may be delayed.

Starting the vehicle

- Ultra Wide Band unsupported smartphone
 - After placing your registered digital key (smartphone) on the vehicle authentication pad (wireless charging pad), depress the brake pedal and press the Start/Stop button.
 - After starting the vehicle, the digital key (smartphone) may be removed from the vehicle authentication pad (wireless charging pad).
 - NFC communication may not work for some smartphones depending on the internal structure of the smartphone. Move the smartphone to the left or right of the vehicle authentication pad (wireless charging pad) to operate.
- Ultra Wide Band supported smartphone
 - With the smartphone inside the vehicle, depress the brake pedal and press the Start/Stop button.

For more details on the basic way to start the vehicle, refer to the "Start/Stop button" section in chapter 6.

i Information

If a shared digital key (smartphone) is used for the first time, the activating time may take longer.

- Place the shared digital key (smartphone) on the door handle authentication pad until the vehicle door lock/unlock activates.
- If a shared digital key (smartphone) is first used on the vehicle authentication pad (wireless charger pad), the initial start of the vehicle may fail.
- If the door lock/unlock is activated once with the shared digital key (smartphone) or the vehicle is started with the digital key (smartphone) on the vehicle authentication pad, the digital key (smartphone) is registered in the vehicle.

! WARNING

The vehicle can be started when the registered smartphone is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered smartphone with you to prevent vehicle theft when leaving the vehicle.

Operating the tailgate



- Ultra Wide Band supported smartphone
 - If the vehicle is locked, press the tailgate open button with the smartphone in possession to open the tailgate.
 - If you are in the detecting area behind the tailgate for more than 3 seconds with the smartphone in possession when **Smart tailgate** is set, the tailgate opens automatically.

! WARNING

The vehicle can be started when the registered smartphone is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered smartphone with you to prevent vehicle theft when leaving the vehicle.

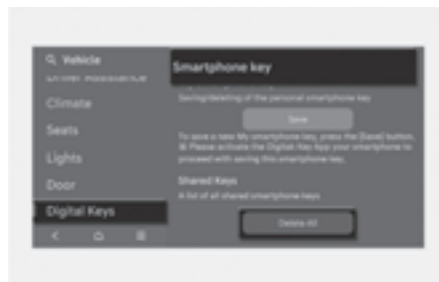
i Information

- The Ultra Wide Band supported smartphone digital key can be used only when the smartphone and vehicle are connected with Bluetooth.
 - The necessary distance between the smartphone and vehicle for Bluetooth connection may vary depending on the surroundings.
 - Window tinting substances may cause poor Bluetooth connection.
 - If the smartphone is kept in the back pocket or bag, it may cause poor Bluetooth connection, or the door lock/unlock or vehicle start-up operation may be delayed.
- The Ultra Wide Band supported smartphone digital key can be used only for a certain amount of time to optimize the performance of the smartphone and vehicle battery. If you stay near the vehicle for several minutes with the Ultra Wide Band supported smartphone, the Auto Unlock feature may not operate.
- Check the smartphone's setting menu or the App provided by the smartphone manufacturer for the connection of the vehicle and smartphone.
- The Ultra Wide Band supported smartphone digital key can also use the NFC function.

Deleting your digital key (smartphone)

Turn on the vehicle with a smart key. Have your smart key with you in the vehicle.

Deleting all registered digital key (smartphone)



To delete all the registered digital key (smartphone), from the Settings menu select **Settings > Vehicle > Digital Keys > Smartphone key > Delete all** in the infotainment system.

- The "**Delete all**" button is disabled if there is no registered digital key (smartphone).

The screenshot shows the 'Smartphone key' screen in the vehicle's infotainment system. The screen has a dark background with white text. At the top, there is a search bar with the text 'Q Vehicle' and a list of vehicle components: 'Sunroof', 'Power windows', 'Climate', 'Seats', 'Lights', 'Door', and 'Digital Keys'. The 'Digital Keys' option is highlighted. Below this, the 'Smartphone key' screen is displayed. It features a title 'Smartphone key' and a subtitle 'Settings/Deleting of the personal smartphone key'. A large 'Delete' button is centered on the screen. Below the button, there is a message: 'To delete My smartphone key, press the [Delete] button, & Please activate the Digital key App on your smartphone to proceed with deleting this smartphone key.' At the bottom of the screen, there are three icons: a back arrow, a home icon, and a settings icon.

- A new smartphone can be registered after deleting the existing digital key (smartphone) from "**My smartphone key**" menu.

The screenshot shows the 'Vehicle' app interface. At the top, there's a header 'Vehicle' with a sub-header 'Smartphone Key' and 'Shared Key'. Below this, there's a list of items: 'Climate', 'Seats', 'Lights', 'Door', and 'Digital Keys'. The 'Digital Keys' section is highlighted, showing a list of keys: 'Smartphone Key', 'Shared Key', 'Phone(000)'s device AAA', and 'Phone(000)'s device BBB'. A 'Delete' button is visible next to the 'Phone(000)'s device AAA entry.

- Shared keys regards the digital key (smartphone) as **[Group]** except **My smartphone key**.
- If the account you log on to has not been changed, then it will be under the same **[Group]**.
- You may delete **Shared keys** by the **[Group]**.

- If the registered digital key (smartphone) is deleted, the digital key saved in the smartphone is also deleted.
- If the digital key is deleted from the smartphone, the digital key (smartphone) registered in the vehicle is also deleted.
- Even though the Blue Link® App is deleted from the smartphone, the digital key saved in the smartphone is not deleted.
- Management of the digital key saved in the smartphone is available from the Digital Key App provided by the smartphone manufacturer.

Digital key (Card key)

How to register Digital key (Card Key)

To use the card key as a digital key, follow the following procedure.



[A] Vehicle authentication pad (Wireless charging pad)

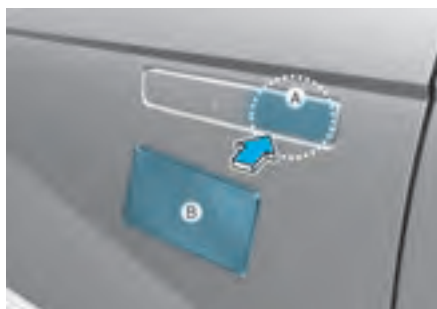
1. Have both of your smart keys with you in the vehicle.
2. Select **Settings > Vehicle > Digital keys > NFC Card Key** from the Setup menu, and check whether "Use" is selected in the infotainment system.
3. Place your card key on the vehicle authentication pad (wireless charging pad) while the vehicle is on.
4. Register your card key by selecting **Settings > Vehicle > Digital keys > NFC Card Key > Save** from the Settings menu in the infotainment system.

i Information

- Only one digital key (card key) can be registered to the vehicle. If it must be replaced, delete the existing card key before registering the new card key.
- To register a digital key (card key), both of your smart keys must be in the vehicle.
- Once a digital key (card key) is registered, it cannot be registered in another vehicle. It is possible to re-register it to the original vehicle.

Using the digital key (card key)

The driver can lock or unlock the door by placing the card key on the outside door handle, and the vehicle can be started by placing the card key on the vehicle authentication pad (wireless charging pad).



[A] Door handle authentication pad
[B] Card key NFC Antenna

Locking/Unlocking the doors

If the driver places the digital key (card key) to the driver's or passenger's door handle authentication pad (A) for more than 2 seconds, the door locks or unlocks.

If the **Two Press Unlock** feature is set, only the driver's door pops out and unlocks when the digital key (card key) is placed on the driver's door handle authentication pad. Hold the digital key (card key) near the driver's door handle authentication pad once more within 4 seconds to unlock all doors.

After unlocking the doors, the doors are automatically re-locked after 30 seconds unless a door is opened.

Information

You cannot lock your vehicle using the digital key (card key) if any of the following occurs:

- The smart key is in the vehicle.
 - The Start/Stop button is in the ACC or ON position.
 - Any of the doors, hood, or tailgate are open.
-

Starting the vehicle

After placing your registered digital key (card key) on the vehicle authentication pad (wireless charging pad), depress the brake pedal and press the Start/Stop button.

For more information on the basic way to start the vehicle, refer to the "Start/Stop button" section in chapter 6.

WARNING

The vehicle can be started when the registered card key is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered card key with you to prevent vehicle theft when leaving the vehicle.

NOTICE

- The digital key (card key) may not work under the following conditions:
 - The digital key (card key) is not placed on the door handle authentication pad or vehicle authentication pad (wireless charging pad) correctly.
 - The digital key (card key) is near NFC-enabled cards such as credit cards or smartphones.

If the digital key (card key) does not work, try again after moving the digital key (card key) away from the door handle authentication pad (more than 0.1 m (4 in.)).

- The digital key (card key) can be damaged by impacts. If the digital key (card key) is damaged, replace the digital key (card key) with a new one and register it again.
- Long-time exposure to high temperature may cause the digital key (card key) to malfunction. Be careful not to expose the digital key (card key) to direct sunlight or high temperature.
- Leaving the digital key (card key) on the in-vehicle authentication pad (wireless charging pad) while driving may cause the digital key (card key) to malfunction. Remove the digital key (card key) from the in-vehicle authentication pad (wireless charging pad) after starting the vehicle.
- Keep the digital key (card key) away from the smartphone when charging the smartphone. If the digital key (card key) is placed between the smartphone and the in-vehicle authentication pad (wireless charging pad) while the smartphone is being charged, the digital key (card key) may malfunction. For example, when charging smartphone while the digital key (card key) is attached to the back of the smartphone case.

Deleting your digital key (card key)



1. Turn on the vehicle with a smart key. Have your smart key with you in the vehicle.
2. From the infotainment system settings menu, select **Settings > Vehicle > Digital keys > Card key > Delete**.
 - The "**Delete**" button is disabled if there is no digital key (card key) registered.

Personalized profile and vehicle settings

You can link the user profile with the registered digital key (smartphone). If the account you log on to a smartphone has not been changed, then it will be under the same **[Group]**. All digital keys (smartphone) will be connected to the **[Group]**.

Your vehicle will automatically activate with the registered profile if you get on the vehicle with your digital key (smartphone). You can refer to the following menus for keys under the same **[Group]**, except my smartphone key.

Select **Settings > Vehicle > Digital keys > Smartphone key > Shared keys > [Group]** from the infotainment system.

Linking/Unlinking profile

How to link user profile

1. Select **Settings > User profile > Profile settings > Link digital key (Smartphone)** from the Settings menu in the infotainment system.
2. Among the digital keys (smartphone) displayed on the screen, select the **[Group]** for the digital key (smartphone) you want to link to and follow the instructions.

How to unlink user profile

Select **Settings > User profile > Profile settings**, and then deselect "**Link Digital Key (Smartphone)**" from Settings menu in the infotainment system.

- Unlinking is possible only when a user profile is linked.

i Information

- User profile cannot be linked to both Driver 1 and Driver 2 that are connected to a single smartphone. Personalization operates with the recently linked user profile, and the previously linked user profile will be automatically canceled.
 - User profile link works only when the digital key is registered to the vehicle.
 - Digital key (card key) cannot be linked with a user profile.
 - If the user profile linked digital key in the smartphone is deleted, the digital key should be re-registered and personalized by linking the user profile again.
-

Vehicle personalization operation

- The personalization function linked with digital key works when the profile linked smartphone is placed on the outside door handle authentication pad to lock or unlock the doors.
- The profile set by the digital key can be changed manually from the infotainment system.
- The personalization function using the digital key can be operated after linking the digital key in the infotainment system profile menu.
- The personalization function works only when the vehicle is OFF or when the vehicle is started remotely. If the vehicle is not started remotely, the personalization function does not work with the digital key.

***i* Information**

User profile operation according to door lock/unlock system is as follows:

Item	Personalization Operation
Initial value	Guest
Profile linked smartphone key	Linked profile
Profile unlinked smartphone key	Recently activated profile
NFC card key	
Smart key	

Used vehicle/Digital key maintenance

Purchasing used vehicle

If any of the digital key devices (smartphone key, card key) are registered in the vehicle, the "**Digital key registered**" message appears once on the infotainment system or instrument cluster when the Start/Stop button is in the ON position after unlocking the doors. When purchasing a used vehicle, make sure to check the message and delete the smartphone key and card key registered by the previous user and inform the purchase of a used vehicle through Hyundai Customer Care Center.

If the card key comes with the vehicle, check whether it operates properly.

Digital Key maintenance

If you need to have your Digital Key System repaired or replaced, the registered smartphone key or card key can be deleted.

Limitations of the system

CAUTION

If you carry a UWB-enabled smartphone registered as a digital key within the vehicle's Bluetooth connection range for an extended time, low-voltage battery consumption may occur. To prevent battery drain, turn off the passive entry feature of the digital key from the smartphone wallet app.

- HYUNDAI Digital Key may not operate if any of the following occurs:
 - Smartphone battery or the vehicle battery is discharged.
 - NFC or Bluetooth is turned off on the smartphone settings.
 - A credit card is near your smartphone, or a metal or thick smartphone case is used.
 - The card key is in a wallet or card holder, or overlapped with other cards.
 - There is electronic interference by other vehicles, objects, etc.
 - If you use a smartphone cover that uses wireless communication or is made of metal, remove the smartphone cover.

- The vehicle may not be controlled by the smartphone if any of the following occurs:
 - Other smartphone functions (calls, urgent calls, audio or NFC payment), apps, or wireless earphones are operating.
 - The app function such as basic setting or app launching is limited by the prior policy according to the manufacturer.

Declaration of Conformity

The radio frequency components (Digital key) complies:

- For Indonesia



- For Thailand



Door locks

Operating door unlocks from outside the vehicle (Manual type)

Smart key



Push the button on the front outside door handle (the engraved part) while carrying the Smart Key with you, all doors will unlock.

The hazard warning lights will blink twice and chime also sounds twice.

Once the doors are unlocked, when press the front of the door handle (1) then rear of the door handle will pop out (2).

Pull the outside door handle to open the door.

Operating door unlocks from outside the vehicle (Electric type)

⁺if equipped

Smart key

Approach unlock system

The outside door handle will slide out and the doors will unlock when the driver approaches the vehicle possessing the smart key.

The driver can activate/deactivate the "Approach unlock" system on the infotainment screen.

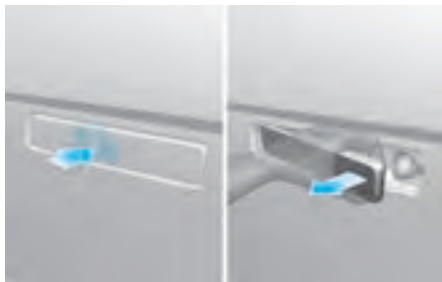
To activate Approach unlock system, select '**Settings > Vehicle > Door > activate approach unlock**' in the infotainment system. The outside door handle will slide out and the door will unlock when the driver approaches the vehicle possessing the smart key. If Approaching unlock system is deactivated, the door handle will not slide out even when the driver approaches to the vehicle with the smart key. To unlock doors when Approach unlock system is deactivated, touch the lock/unlock sensor (engraved part) on the handle.



- When the "Approach unlock" is activated :
 - If you approach (within 1 m) the driver or front passenger's door handle possessing the smart key, the outside door handles slide out and the doors are unlocked. In this case, Hazard

Warning Flasher blinks twice and chime also sounds twice.

- After first approach, the vehicle tries detecting the smart key every 5 seconds and if the key is not detected, the doors will lock automatically and the handles will slide in.



- When the "Approach unlock" is deactivated : The handle does not slide out even when you approach with the smart key in possession. The doors are unlocked if you press the outside handle as the handles slide out.
- The doors will lock automatically and the handles will slide in after 30 seconds unless a door is opened.

i Information

In emergency situations, such as battery is dead, the outside electric door handle can still be operated in a way that the outside manual door handle operate.

Operating door locks from outside the vehicle (Manual type)

Smart key



Push the button on the front outside door handle (the engraved part) while carrying the Smart Key with you, all doors will lock.

The hazard warning lights will blink and chime also sounds once.

Operating door locks from outside the vehicle (Electric type)

 if equipped

Smart key



When all doors are closed, touch the touch sensor on the front outside door handle (the engraved part) while carrying the Smart Key with you, outside door handle will return and doors will be locked.

The hazard warning lights will blink and chime also sounds once.

NOTICE

- If the door is locked/unlocked multiple times in rapid succession with the smart key, door lock button or door lock switch, the system may stop operating temporarily in order to protect the circuit. Also, the "Approach unlock" system may not operate. Try operation after a sufficient time in case the system does not operate due to multiple operations.
- "Approach unlock" system is not operated continuously. Retry after a certain period of time when all the doors are closed.

i Information

- In cold and wet climates, door lock and door mechanisms may not work properly due to freezing conditions.
- If the door is locked/unlocked multiple times in rapid succession with either the vehicle key or door lock switch, the system may stop operating temporarily in order to protect the circuit and prevent damage to system components.
- When washing the vehicle
 - Self car wash
Keep the door locked with the outside door handle closed.
To keep the door unlocked, push back the outside door handle by hand. This function prevents the door handle from being damaged, and the door handle pops out again when the unlock button is pressed.
 - Auto car wash
Keep the door locked with the outside door handle closed.
If the Smart Key is not in the vehicle, turn off the vehicle and stay the Smart Key away at least 2 m (78 in.) from the vehicle to prevent the outside door handle operates.

Mechanical key



Press the front part (1) of the door handle to pull out the rear part of the door handle. While keep pressing the front part of the door handle, insert the mechanical key to the lock.

To lock the door, turn the key toward the front (left side) of the vehicle. To unlock, turn the key toward the rear (right side) of the vehicle.

NOTICE

Do not apply excessive force on the door and door handle. It may damage the door and door handle.

The mechanical key only locks/unlocks the driver's door handle. For more detail, refer to 'In case of an emergency' in this chapter.

i Information

When the door handle or the keyhole freeze and do not open, lightly tap or indirectly warm (for example, hand temperature) the keyhole.

Operating door lock/unlock from inside the vehicle

With the door handle



Front door

If the inner door handle is pulled when the door is locked, the door will unlock and open.

Rear door

If the inner door handle is pulled once when the door is locked, the door will unlock. If the inner door handle is pulled once more, the door will open.

If any door is opened, the doors will not lock even though the central door lock switch is pressed.

i Information

If a power door lock ever fails to function while you are in the vehicle try one or more of the following techniques to exit:

- Operate the door unlock feature repeatedly (both electronic and manual) while simultaneously pulling on the door handle.
- Operate the other door locks and handles, front and rear.
- Lower a front window and use the mechanical key to unlock the door from outside.

With the central door lock switch



Driver's door

The Driver's door armrest is equipped with a central door lock switch. The lock switch is indicated by a  symbol. The unlock switch is indicated by a  symbol.

When the lock switch (1) is pressed (door indicator light ON), all the vehicle doors will lock.

When the unlock switch (2) is pressed, all the vehicle doors will unlock.

If any door is opened, the doors will not lock even though the central door lock switch (1) is pressed.

NOTICE

If the smart key is in the vehicle and the front door is opened, the central door lock button (1) cannot lock the doors.

In case of an emergency

In case of emergency such as when the battery is discharged, the only way to lock the door(s) is with the mechanical key from the outside key hole.

Doors without an outside key hole can be locked as follows:

1. Open the door.
2. Insert the key into the emergency door lock hole and turn it clockwise for left side door, or turn it counterclockwise for right side door.
3. Close the door securely.

***i* Information**

If the electrical power door lock switch does not operate (ex. dead car battery) and the tailgate is closed, you will not be able to open the tailgate until power is restored.

** WARNING**

- The doors should always be fully closed and locked while the vehicle is in motion. If the doors are unlocked, the risk of being thrown from the vehicle in a crash is increased.
- Do not pull the inner door handle of the driver's or passenger's door while the vehicle is moving.

WARNING

Do not leave the elderly, children or animals unattended in your vehicle. An enclosed vehicle can become extremely hot, causing death or serious injury to the elderly, unattended children or animals who cannot escape from the vehicle. Children might operate features of the vehicle that could injure them, or they could encounter other harm, possibly from someone gaining entry to the vehicle.

WARNING

Always secure your vehicle.

Leaving your vehicle unlocked increases the potential risk to you or others from someone hiding in your vehicle.

To secure your vehicle, while depressing the brake, shift the gear to the P (Park) position, engage the parking brake, and press the Start/Stop button to the OFF position, close all windows, lock all doors, and always take the key with you.

CAUTION

Opening a door when something is approaching may cause damage or injury. Be careful when opening doors and watch for vehicles, motorcycles, bicycles or pedestrians approaching the vehicle in the path of the door.

WARNING

If you stay in the vehicle for a long time while the weather is very hot or cold, there are risks of injuries or danger to life. Do not lock the vehicle from the outside when someone is in the vehicle.

Automatic door lock and unlock features

Your vehicle is equipped with features that will automatically lock or unlock your vehicle based on settings you select in the infotainment system screen.

Auto LOCK Enable on speed

When this feature is set in the infotainment system screen, all the doors will be locked automatically when the vehicle exceeds 15 km/h (9 mph).

Auto UNLOCK Vehicle off

When this feature is set in the infotainment system screen, all the doors will be unlocked automatically when the vehicle is turned off.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Additional unlock safety feature airbag deployment

As an additional safety feature, all doors will be automatically unlocked when an impact causes the airbags to deploy.

Child-protector rear door locks

 if equipped



The child safety lock is provided to help prevent children seated in the rear from accidentally opening the rear doors. The rear door safety locks should be used whenever children are in the vehicle.

The child safety lock is located on the edge of each rear door. When the child safety lock is in the lock position, the rear door will not open if the inner door handle is pulled.

To lock the child safety lock, insert a small flat blade tool (like a screwdriver or similar) (1) into the slot and turn it to the lock position as shown.

To allow a rear door to be opened from inside the vehicle, unlock the child safety lock.

! WARNING

If children accidentally open the rear doors while the vehicle is in motion, they could fall out of the vehicle. The rear door safety locks should always be used whenever children are in the vehicle.

Electronic child safety lock

 if equipped



When the electronic child safety lock button is pressed and the indicator light on the button illuminates, the rear doors cannot be opened from inside the vehicle.

- The rear door window cannot be opened or closed while the electronic child safety lock button is in the LOCK position (indicator light ON).
For more details, refer to "Windows" section in this chapter.
- Electronic child safety lock does not automatically turn on unless the driver presses the electronic child safety lock button.
- If 3 minutes passes after the Start/Stop button is pressed to the OFF or ACC, the indicator on the button turns off, and the driver cannot turn off electronic child safety lock by pressing the button. To turn off the function, press the Start/Stop button to the ON position, and then press the electronic child safety lock button.

- If the power is supplied again after removing the battery or battery is discharged while the electronic child safety lock button is in the LOCK position, press the button once more to match the state of the indicator on the electronic child safety lock button and actual status of the electronic child safety lock function.
- If the airbag is activated while the electronic child safety lock button is in the LOCK position (indicator light ON), the rear doors will unlock automatically.
- Vehicles equipped with the electronic child safety lock feature is not provided with a manual child safety lock.

WARNING

If children accidentally opens the rear door while the vehicle is in motion, they could fall out of the vehicle. Electronic child safety lock should always be used whenever children are in the vehicle.

NOTICE

When electronic child safety lock does not work even though the button is pressed, the message will be displayed and an alarm will sound. If this occurs, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit Assist (if equipped with electronic child safety lock)

Safe Exit Assist helps prevent the rear occupant from opening the rear door. When an approaching vehicle from the rear area is detected after the vehicle stops, the rear doors will not unlock even when the driver tries to unlock the rear doors using the electronic child safety lock button.

For more details, refer to "Safe Exit Assist (SEA)" section in chapter 7.

Theft-alarm system

This system helps to protect your vehicle and valuables. The horn will sound and the hazard warning lights will blink continuously if any of the following occur:

- A door is opened without using the smart key.
- The tailgate is opened without using the smart key.
- The vehicle hood is opened.

The alarm continues for 30 seconds, then the system resets. To turn off the alarm, unlock the doors with the smart key.

The Theft Alarm System automatically sets 30 seconds after you lock the doors and the tailgate. For the system to activate, you must lock the doors and the tailgate from outside the vehicle with the smart key or by touching the touch sensor or pressing the button on the outside door handle with the smart key in your possession.

The hazard warning lights will blink and the chime will sound once to indicate the system is armed.

Once the security system is set, opening any door, the tailgate, or the hood without using the smart key will cause the alarm to activate.

The Theft Alarm System will not set if the hood, the tailgate, or any door is not fully closed. If the system will not set, check the hood, the tailgate, or the doors are fully closed.

Do not attempt to alter this system or add other devices to it.

i Information

- Do not lock the doors until all passengers have left the vehicle. If the remaining passenger leaves the vehicle when the system is armed, the alarm will be activated.
 - If the vehicle is not disarmed with the smart key, open the doors by using the mechanical key and start the vehicle by directly pressing the Start/Stop button with the smart key.
 - If the system is disarmed by unlocking the vehicle, but neither a door or the tailgate is opened within 30 seconds, the doors will relock and the system will rearm automatically.
-

i Information



Vehicles equipped with a theft alarm system will have a label attached to the vehicle with the following words:

1. WARNING
 2. SECURITY SYSTEM
-

Rear Occupant Alert (ROA)

 if equipped

Rear Occupant Alert is provided to help prevent the driver from leaving with any rear passenger left in the vehicle.

System setting

To use Rear Occupant Alert, it can be enabled in the infotainment system.

Select **Settings > Vehicle > Convenience > Rear Occupant Alert (ROA)**.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

System operation

After turning off the vehicle and opening the driver's door, a warning message appears on the cluster when all the following conditions are met:

- After driving
- The rear seat door is opened and closed before or after driving



WARNING

Always check the rear seats before you leave the vehicle.

The Rear Occupant Alert system does not actually detect the presence of objects or occupants in the rear seat but just informs you to check the rear seat by using the record of the rear door opening and closing.



Information

The record of the rear door opening and closing resets only when the driver turns the vehicle off and locks the vehicle door. Even if the rear door has not been reopened, an alert may occur if the door record is not reset. For example, if the driver opens the door and exits the vehicle again without locking the door after the Rear Occupant Alert operates, the alert may occur again.

Advanced Rear Occupant Alert (ROA)

 if equipped

Advanced Rear Occupant Alert is provided to help prevent a driver from leaving a vehicle with the rear passenger left in the vehicle.

The system is designed to help detect an infant and child's presence.

System setting

To use Rear Occupant Alert, it must be enabled from the Settings menu in the infotainment system screen. Select:

- **Settings > Vehicle > Convenience > Rear Occupant Alert (ROA)**

Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

System operation

- First alert
- After turning off the vehicle and opening the driver's door, a warning message appears on the cluster when all the following conditions are met:
 - After driving
 - The rear seat door is opened and closed before or after driving
- Second alert (if the sensor equipped)

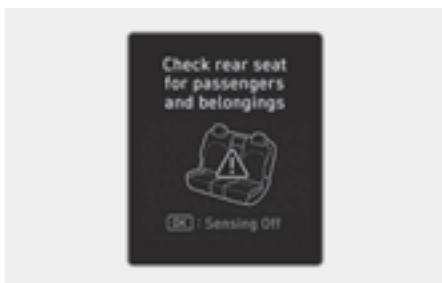
After the first alert, the second alert operates when it detects an infant or child's presence after the driver's door is closed and all the doors are locked. The horn will sound for approximately 25 seconds. If the system continues to detect a movement, the alert operates up to 8 times.

Unlock the doors with the smart key to stop the alert.
- The system detects movement in the vehicle for 10 minutes after the door is locked.

i Information

- The second alert is activated only after the prior activation of the first alert.
- If you do not want to use Rear Occupant Alert, press the OK button (A) on the steering wheel when the first alert is displayed on the cluster display. Doing so will deactivate the second alert one time.

Cluster



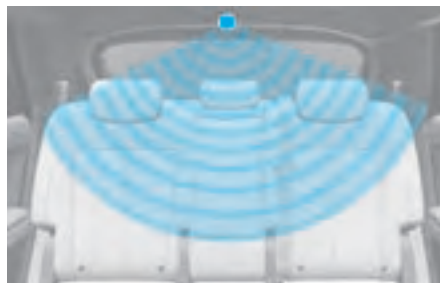
Steering wheel



- If the vehicle is started remotely (if equipped with Remote Start), inside movement detection will stop.

System precautions

Sensor



- Make sure that all the windows are closed. If the window is open, the alert may operate by the sensor detecting an unintended movement (for example, wind or bugs).
- The system is intended to detect the movement of infants sitting in the rear seats, but the warning may operate under the following conditions:
 - When the system misidentifies pets, or other lives as child.
 - When the system detects motion in the driver's or front passenger seat (e.g., seat recline or relaxation mode).
 - When the Vehicle is impacted, pushed, or shaken after it has been locked (e.g., during a car wash or due to external noise or vibration).
 - When metal or liquid objects are present inside the vehicle.
 - When stacked boxes or other objects fall over inside the vehicle.

WARNING

Even if your vehicle is equipped with the system, always make sure to check the rear seat before you leave the vehicle.

System may not operate when:

- Movement does not continue for a certain period of time or the movement is small.
- A child is not seated in a child restraint system.
- The detection may be weak if the signal is obstructed by the vehicle seat or Child Restraining System.
- The passenger is a child over 6 years.
- The passenger is covered with a fabric containing metallic substance such as a blanket.
- An object in the vehicle blocks the sensor.
- The sensor is contaminated by foreign material.
- An animal at the rear seat is not large enough to be detected by the sensor or there is hardly any movement.
- Attaching objects or modifying the interior ceiling, or the interior ceiling is deformed or damaged.
- There are electronic interference around the vehicle.
- Other environmental reasons that may affect the system.

Declaration of Conformity

The radio frequency components (ROA Radar Sensor) complies:

- For Europe and CE certified countries



Integrated memory system



Integrated Memory System for the driver's seat is provided to store and recall the following memory settings with a simple button operation.

- Driver's seat position
- Outside rearview mirror position
- Head-Up Display (HUD): position (if equipped)

WARNING

Never attempt to operate the integrated memory system while the vehicle is moving.

This could result in loss of control, and an accident causing death, serious injury, or property damage.

Information

- If the battery is disconnected, the memory settings will be erased.
- If integrated memory system does not operate normally, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

Storing memory positions

1. Shift to P (Park) while the Start/Stop button is in the ON position.
2. Adjust the driver's seat position, outside rearview mirror position, and head-up display height to the desired position.
3. Hold the button (1 or 2). The system will beep once and notify you 'Driver 1 (or 2) settings saved' will appear on the infotainment screen.

Recalling memory positions

1. Shift to P (Park) while the Start/Stop button is in the ON position.
2. Press the desired memory button (1 or 2). The system will beep once, and then the driver's seat position, outside rearview mirror position, and head-up display height will automatically adjust to the stored positions.
3. 'Driver 1 (or 2) settings applied' will appear on the infotainment screen.

i Information

- In order to adjust the memory button (2) while adjusting the memory button (1), press the memory button (1) to pause the adjustment of (1), then press memory button (2).
- If you adjust the seat, rearview mirror, head-up display while recalling the stored positions, the manually adjusted settings will be applied.

Resetting the system

Take the following procedures to reset integrated memory system, when it does not operate properly.

Resetting integrated memory system

1. Stop the vehicle and open the driver's door with the Start/Stop button in the ON position and the vehicle shifted to P (Park).
2. Adjust the driver's seat and seatback to the foremost position.
3. Press the memory button 1 (or 2) and push forward the driver's seat switch simultaneously (about two seconds).
4. Release the memory button and the driver's seat switch when a beep sounds.

While resetting integrated memory system

1. Resetting starts with a notification sound.
2. The driver's seat and seatback is adjusted to the rearward position with the notification sound.
3. The driver's seat and seatback is re-adjusted to the default position (central position) with the notification sound.

However, in the following cases, the resetting procedure and the notification sound may stop.

- The memory button is pressed.
- The seat control switch is operated.
- The gear is shifted out of P (Park).
- The driving speed exceeds 3 km/h (2 mph).
- The driver's door is closed.

NOTICE

- While integrated memory system is being reset, if the resetting and notification sound stops incompletely, restart the resetting procedure again.
- Make sure that there is no objects around the driver's seat in advance of resetting the integrated memory system.
- After resetting the integrated memory system, the adjustment for the driver seat must be stored again to recall the memory position.

Seat easy access

Seat easy access will move the driver's seat automatically as follows:

- Exiting the vehicle:

The driver's seat will move as follows when the Start/Stop button is in the OFF position with the gear in P (Park) and the driver's door open.

- Driver seat: Moves rearward depending on the distance selected from the Settings menu in the infotainment system.

However, the driver's seat may not move rearward if there is not enough space between the driver's seat and the rear seats.

- Entering the vehicle:

The driver's seat will move as follows when the Start/Stop button is pressed to the ACC, ON or START position or while carrying the smart key, the driver's door is closed with the Start/Stop button in the OFF position.

- Driver seat: Moves back to its original position.

- You can set the Seat Easy Access function from the Settings menu in the infotainment system screen. Select:

- Driver seat

Settings > Vehicle > Seat > Seating Easy Access > Driver Seat Easy Access > Normal/Extended/Off

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Memory seat configurations

 if equipped

Memory seat configurations for the seats are provided to store and recall the following memory settings with a simple operation on the infotainment system.

WARNING

Never attempt to operate the integrated memory system while the vehicle is moving.

This could result in loss of control, and an accident causing death, serious injury, or property damage.

CAUTION

The function requires a large amount of electrical power. To prevent the battery from discharging, refrain from using it when the vehicle start switch is off.

- If the battery is disconnected, the memory settings will be erased.
- If integrated memory system does not operate normally, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

Storing memory positions



You can save the position of each seat on the Infotainment system screen as below.

1. Shift to P (Park) while the Start/Stop button is in the ON position.
2. Touch the Memory seat configuration icon in the infotainment home screen.
3. Adjust the each seat position with arrow icons to the desired position on the infotainment screen.
4. To save the each seat that desired position, touch the 'Save' icon.
5. Select the one of the mode on the infotainment screen. The mode that selected will be saved.

Recalling memory positions

1. Shift to P (Park) while the Start/Stop button is in the ON position.
2. Touch the desired memory mode icon (1,2 or 3) and touch 'Apply' icon on the infotainment screen.
3. The seats will automatically adjust to the stored positions.
4. To stop working while recalling the saved mode, touch 'Stop' icon on the infotainment screen.

Steering wheel

Motor Driven Power Steering (MDPS)

The system assists you with steering the vehicle. If the vehicle is turned off or if the power steering system becomes inoperative, you may still steer the vehicle, but it will require increased steering effort.

Should you notice any change in the effort required to steer during normal vehicle operation, we recommend that you have the system checked by an authorized HYUNDAI dealer.

CAUTION

If Motor Driven Power Steering does not operate normally, the  warning light and the message 'Check motor driven power steering' will illuminate on the instrument cluster. You may steer the vehicle, but it will require increased steering efforts. We recommend that you take the vehicle to an authorized HYUNDAI dealer and have the system checked as soon as possible.

i Information

The following symptoms may occur during normal vehicle operation:

- The steering effort may be high immediately after pressing the Start/Stop button to the ON position. This happens as the system performs the MDPS system diagnostics. When the diagnostics are completed, the steering wheel effort will return to its normal condition.
 - When the battery voltage is low, you might have to put more steering effort. However, it is a temporary condition so that it will return to normal condition after charging the battery.
 - A click noise may be heard from the MDPS relay after the Start/Stop button is in the ON or OFF position.
 - Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
 - When you operate the steering wheel in low temperatures, abnormal noise may occur. If the temperature rises, the noise will disappear. This is a normal condition.
 - When an error is detected from MDPS, the steering effort assist function will not be activated in order to prevent fatal accidents. The instrument cluster warning lights may be on or the steering effort may be high. If these symptoms occur, drive the vehicle to a safe area as soon as it is safe to do so. We recommend that you have the system checked by an authorized HYUNDAI dealer as soon as possible.
-

Tilt/Telescopic steering

When adjusting the steering wheel to a comfortable position, adjust the steering wheel so that it points toward your chest, not toward your face. Make sure you can see the instrument cluster warning lights and gauges. After adjusting, push the steering wheel both up and down to be certain it is locked in position.

Always adjust the position of the steering wheel before driving.

WARNING

NEVER adjust the steering wheel while driving. This may cause loss of vehicle control resulting in an accident.

NOTICE

While adjusting the steering wheel height, please do not push or pull it hard since the fixture can be damaged.

Manual adjustment



To adjust the steering wheel angle and height:

1. Pull down the lock-release lever (1).
2. Adjust the steering wheel to the desired angle (2) and distance forward/back (3).
3. Pull up the lock-release lever to lock the steering wheel in place.

i Information

Sometimes the lock release lever may not engage completely. This may occur when the gears of the locking mechanism do not completely mesh. If this occurs, pull down on the lock-release lever, readjust the steering wheel again, and then pull back up on the release lever to lock the steering wheel in place.

Heated steering wheel

 if equipped



Press the  button in the sliding console.

- Manual temperature control

Each time you press the  button, the temperature changes as follows:

- OFF > HIGH > LOW
- Pressing the  button when in LOW, the heated steering wheel turns off.

- Automatic temperature control

The heated steering wheel starts to automatically control the steering wheel temperature after being manually turned ON.

- When HIGH is manually selected:

The heated steering wheel automatically changes to the LOW position after 30 minutes. You can turn off the heated steering wheel by pressing the button to the OFF position.

- When LOW is manually selected:

The heated steering wheel is not controlled automatically.

NOTICE

- Do not install any cover or accessory on the steering wheel. The cover or accessory could cause damage to the heated steering wheel system.
- Do not strike the steering wheel surface with a sharp-pointed object. This may damage the heating element in the steering wheel.

Horn



To sound the horn, press the area indicated by the horn symbol on your steering wheel (see illustration). The horn will operate only when this area is pressed.

NOTICE

Do not strike the horn severely to operate it, or hit it with your fist. Do not press on the horn with a sharp-pointed object.

i Information

Do not clean the steering wheel surface with the following products:

- Organic solvents such as thinner, alcohol and gasoline
- Chemical products such as leather cleaner, coating agent, and wax

Steering wheel grip sensor

 if equipped

While driving the vehicle with the Driver assistance system on, it detects whether the driver is holding the steering wheel and displays the Hands-off warning when the driver is not holding the steering wheel.

For more information, refer to the Hands-off warning section in "Lane Keeping Assist (LKA)" or "Lane Following Assist (LFA)" in chapter 7.

In the following situations, the sensor may fail to detect the driver's hands although the driver is holding the steering wheel.

- When the driver is wearing gloves.
- When accessories such as a cover is attached on the steering wheel.
- When electronic device is touching the steering wheel.
- When the steering wheel is wet.

CAUTION

The steering wheel sensor may not work properly if the following precautions are not followed.

- Do not modify the steering wheel cover.
- Do not attach accessories on the rim of the steering wheel.
- Do not touch the steering wheel with electronic devices. (ex. Laptop, tablet PC, etc)
- Do not touch the steering wheel with metallic or conductive objects. (ex. Tumbler, soda can, etc)
- Do not excessively wet the steering wheel. (ex. spilled water, wet tissue, vapour from steam wash)

Haptic warning/Steering wheel vibration warning

 if equipped

If haptic steering wheel is available, the Driver Assistance system vibrates the steering wheel to warn the driver when the system indicates hazardous situations.

Setting haptic warning

With the vehicle on, select:

Settings > Vehicle > Driver assistance >  > Haptic warning in the infotainment system.

Mirrors

Inside rearview mirror

Before driving your vehicle, check to see that your inside rearview mirror is properly positioned. Adjust the rearview mirror so that the view through the rear window is properly centered.

WARNING

Make sure your line of sight is not obstructed. Do not place objects in the rear seat, cargo area, or behind the rear headrests which could interfere with your vision through the rear window.

WARNING

To prevent serious injury during an accident or deployment of the airbag, do not modify the rearview mirror and do not install a wide mirror.

WARNING

NEVER adjust the mirror while driving. This may cause loss of vehicle control resulting in an accident.

NOTICE

When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as this may cause the liquid cleaner to enter the mirror housing.

Day/night rearview mirror

 if equipped



Make this adjustment before you start driving and while the day/night lever is in the day position.

Pull the day/night lever towards you to reduce glare from the headlamps of the vehicles behind you during night driving. Remember that you lose some rearview clarity in the night position.

Electric Chromic Mirror (ECM)

 If equipped



[A] Sensor

Some vehicles come equipped with an electrochromic mirror that helps control glare while driving at night or under low light driving conditions.

When the vehicle is running, the glare is automatically controlled by the sensor mounted in the rearview mirror. The sensor detects the light level around the vehicle, and automatically adjusts to control the headlamp glare from vehicles behind you.

Whenever the gear is shifted to R (Reverse), the mirror will automatically go to the brightest setting in order to improve the driver's view behind the vehicle.

Digital Center Mirror (DCM)

 If equipped

The Digital Center Mirror is a system that uses the camera on the rear of the vehicle and displays its image on the screen of the Digital Center Mirror. The Digital Center Mirror allows the driver to see the rear view despite obstructions, such as the headrest or luggage, ensuring rear visibility.

WARNING

- Failure to follow the warnings and instructions for proper use of the Digital Center Mirror could result in serious accident.
 - The Digital Center Mirror is a convenience feature but it is not a substitute for proper vehicle operation. The system has areas where objects cannot be viewed. Check the blind spot of the Digital Center Mirror before vehicle operation. The driver is always responsible for safe driving.
 - Do not operate the Digital Center Mirror while driving. Doing so can not be a distraction and it could lose control of your vehicle and cause an accident or serious injury.
 - Do not disassemble or modify the Digital Center Mirror, the camera unit or wirings. If you do, it may result in accidents or fire. In case you notice smoke or smell coming from the Digital Center Mirror, stop using the system immediately. We recommend that you see an authorized HYUNDAI dealer for servicing.

- Be sure to adjust the Digital Center Mirror before driving.
 - Switch the system to the conventional rearview mirror mode and be properly seated on the driver's seat. Then adjust the mirror so as to see the rear window properly.
 - Push the lever all the way to change to digital mirror mode and adjust the display settings. Driving without adjusting the mirror may cause difficulty in watching the display at the Digital Mirror mode (camera view mode) due to the reflection from the surface of the mirror.
 - As the range of the image display by the Digital Center Mirror is different from that of the optical mirror, make sure to check this difference before driving.
- If the Digital Center Mirror malfunctions, immediately switch the system to the conventional rearview mirror mode.
- When strong light (for example, sunlight or high beams from following vehicles) enters the camera, a light beam or a glaring light may appear on the monitor screen of the Digital Center Mirror. In that case, switch the system to the conventional rearview mirror mode appropriately.
- If the camera lens (1) is dirty, the displayed image may not be clear. In this case, clean it with a soft cloth dampened with water or a swab.

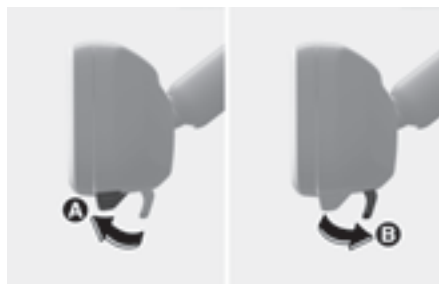


System component



- (1) Icon display area: Displays icons, adjusting Brightness & Tilt
- (2) Lever: Operate to change between digital mirror mode and optical mirror mode.
- (3) Menu button: Press to display the icon display area and select the item you want to adjust (Brightness & Tilt).
- (4) Select/adjust button: Press to change the setting of the item you want to adjust.
- (5) Camera indicator: Indicates that the camera is operating normally.

How to change the mode



[A] Digital mode

[B] Conventional rearview mirror mode

The mode can be switched when the switch is in the ON position.

1. Pull the mode select lever all the way to switch to the Digital Center Mirror mode (camera view mode).

i Information

Displays an image of the area behind the vehicle. In this mode, camera indicator (6) is shown.

2. Push the mode select lever all the way to switch to the optical inside rearview mirror mode

i Information

Turns off the display of the Digital Center Mirror allows it to be used as an optical mirror.

Adjusting the mirror height



The height of the rearview mirror can be adjusted to suit your driving posture.
Change to optical mirror mode, adjusting the rearview mirror angle by moving it up and down.

Display settings (Digital mirror mode)

Settings of the display in the digital mirror mode



1. Press the menu button (1). You can adjust the brightness and the vertical angle of the display.

Icons display	Settings
	Select to adjust the brightness of the display.
	Select to adjust the display.

2. Press the menu button repeatedly and select the item you want to adjust.
3. Press the button (2) or button (3) to change the setting.

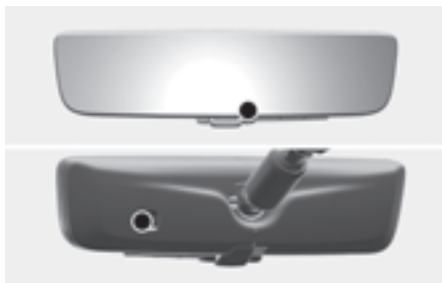
The icons will disappear if the button is not operated for approximately 5 seconds or more.

***i* Information**

If the brightness of the Digital Center Mirror is set too high, it may cause eye strain.

Adjust the Digital Center Mirror to an appropriate brightness. If your eyes become tired, change to optical mirror mode.

To prevent the light sensors from malfunctioning



To prevent the light sensors from malfunctioning, do not touch or cover them.

Digital mirror mode operating condition

The Start/Stop button is in the ON position.

When the Start/Stop button is changed from ON position to OFF or ACC position, the image will be disappeared.

When using the Digital Center Mirror in digital mirror mode

- When the tailgate is open, the Digital Center Mirror image may not display properly. Before driving, make sure the tailgate is closed.
- If the display is difficult to see due to reflected light, close the sunshade for the sunroof (if equipped).
- Any of the following conditions may occur when driving in the dark, such as at night. None of them indicates that the malfunction has occurred.
 - Colors of objects in the displayed image may differ their actual color.
 - Depending on your physical condition or age, it may take longer than usual to focus on the displayed image. In this case, change to optical mirror mode.
 - Do not let passengers stare at the displayed image when the vehicle is being driven, as doing so may cause motion sickness.

When the system malfunctions



If the symbol shown in the illustration is displayed when using the Digital Center Mirror in digital mirror mode, the system may be malfunctioning. The symbol will disappear in a few seconds. Operate the lever, change to optical mirror mode and we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

CAUTION

To prevent the Digital Center Mirror from malfunctioning

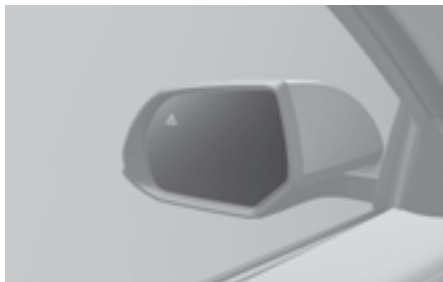
- Do not use detergents, such as thinner, benzene, and alcohol to clean the mirror. They may discolor, deteriorate or damage the mirror surface.
- Do not remove, disassemble or modify the mirror and camera.
- Do not allow an organic solvent, vehicle wax, window cleaner or glass coating to adhere to the camera. If this happens, wipe it off as soon as possible.
- When cleaning the camera lens, wipe the camera lens with a damp soft cloth.
- Do not strongly rub the camera lens, as it may be scratched and will not be able to transmit a clear image.
- Do not subject the camera to a strong impact as this could cause a malfunction. If this happens, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.
- Operating the system at the ON position while the vehicle is not running would cause discharging of the battery.
- Do not attach an antenna of wireless device near the Digital Center Mirror. Electric wave from wireless device may cause disturbed image in Digital Center Mirror.

- Do not push buttons excessively or operating the lever roughly may cause a system failure or the Digital Center Mirror itself to drop.
 - Never rotate the body of the Digital Center Mirror by 90° or more. It may damage the Digital Center Mirror. Do not apply strong shocks to the body of the Digital Center Mirror. It may cause a system failure.
 - If it is difficult to see the Digital Center Mirror display screen because of a strong external light, switch the mode to the conventional rearview mirror mode for better use.
-

Digital Center Mirror error icon and solution

Symptom	Likely cause	Solution
If the high temp icon is displayed on the display right side. 	The Digital Center Mirror is extremely hot. (The display will gradually become more dim. If the temperature continues to increase, the Digital Center Mirror will turn off.)	Reducing the cabin temperature is recommended to reduce the temperature of the mirror. (The icon will disappear when the mirror becomes cool.) If the icon does not disappear even though the mirror is cool, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.
If the display icon has been switched to which is the display error icon. 	The system may be malfunctioning.	Change to optical mirror mode and we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Outside rearview mirrors



Your vehicle is equipped with both left-hand and right-hand outside rearview mirrors. The mirrors can be adjusted remotely with the mirror adjustment control switch. The outside rearview mirrors can be folded to help prevent damage when going through an automatic car wash or when passing through a narrow street.

The left and right outside rearview mirror is convex. Objects seen in the mirror are closer than they appear.

Use the inside rear view mirror or look back directly to determine the actual distance of other vehicles prior to changing lanes.

Make sure to adjust the outside rearview mirrors to your desired position before you begin driving.

WARNING

Do not adjust or fold the outside rearview mirrors while driving. This may cause loss of vehicle control resulting in an accident.

NOTICE

- Do not scrape ice off the mirror face; this may damage the surface of the glass.
- If the mirror is jammed with ice, do not adjust the mirror by force. Use an approved de-icer (not radiator antifreeze) spray, or a sponge or soft cloth with very warm water, or move the vehicle to a warm place and allow the ice to melt.
- Do not clean the mirror with harsh abrasives, fuel or other petroleum based cleaning products.

Adjusting the rearview mirrors



Adjusting the rearview mirrors:

- When the Start/Stop button is in the ACC, ON or START position, move either the L (Left side) or R (Right side) lever (1) to select the rearview mirror you would like to adjust.
- Use the mirror adjustment control switch (2) to position the selected mirror up, down, left or right.
- After adjustment, move the lever (1) to the middle to prevent inadvertent adjustment.

NOTICE

- The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the switch longer than necessary, because this can damage the motor.
- Do not attempt to adjust the rearview mirrors by hand, because this can damage the motor.

Folding the rearview mirrors



Folding button

The rearview mirrors can be folded or unfolded by pressing the button.

Infotainment system setting

- Enable on door unlock
If **'Settings > Vehicle > Lights > Welcome Mirror > On door unlock'** is selected from the Settings menu in the infotainment system:
 - The mirror will fold or unfold when the door is locked or unlocked by the smart key.
 - The mirror will fold or unfold when the door is locked or unlocked by pressing the door handle button or touching the touch sensor on the outside door handle.
- Enable on driver approach
If **'Settings > Vehicle > Lights > Welcome Mirror > ON driver approach'** is selected from the Settings menu in the infotainment system screen, the mirror will unfold when the vehicle is approached with the smart key in possession.

i Information

- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
- For your safety, the outside rearview mirrors cannot be folded automatically when driving at a speed of 15 km/h (9 mph) or faster.

NOTICE

To prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary when the vehicle is not running.

NOTICE

Do not fold the electric type outside rearview mirror by hand. It could cause motor failure.

Reverse parking aid

 if equipped



When the gear is shifted to the R (Reverse) position, the outside rearview lever(s) will rotate downwards to aid with driving in reverse.

The state of the outside rearview mirror lever (1) determines whether or not the mirrors will move:

How it works

- Left/Right: When either the L (Left) or R (Right) lever is selected, both outside rearview mirrors will move.
- Neutral: When neither lever is selected, the outside rearview mirrors will not move.

The outside rearview mirrors will automatically revert to their original positions if any of the following occur:

- The Start/Stop button is pressed to either the OFF position or the ACC position.
- The gear is shifted to any position except R (Reverse).
- The outside rearview mirror adjustment button is not selected.

Reverse parking aid user settings mode

You may change the angle of the outside rearview mirror if it is difficult to see the rear view with the basic downward mirror angle provided when reversing.

When the vehicle is first delivered, the set downward angle of the left and right outside rearview mirror are different to ensure driver visibility.

1. Make sure the vehicle is stopped.
2. Depress the brake pedal and shift the gear to R (Reverse). When L (Left) or R (Right) lever is selected, both outside rearview mirror angle will move downward to the basic set position.
3. Move either L or R lever to select the outside rearview mirror you would like to adjust. Then press ▼, ▲, ◀, ▶ switch to adjust the outside rearview mirror to the desired angle.
4. After adjusting the angle to save the adjusted outside rearview mirror angle, shift the gear to another position other than R (Reverse), or change the L and R lever to the neutral position (L and R lever is not selected).
5. Set the other outside rearview mirror following the above procedure 1 to 4.

Resetting reverse parking aid user settings mode

To change the outside rearview mirror angle back to the basic angle, shift the gear to R (Reverse), and adjust the mirror angle higher than when the gear is in P (Park), N (Neutral) and D (Drive).

NOTICE

When changing the angle of both outside rearview mirrors, it is recommended to change the angle one side at a time following the procedure 1 to 4.

Digital side mirror (DSM)

 If equipped

DSM Camera



DSM Monitor



The digital side mirrors are a replacement for the outside rearview mirrors and help with changing lanes by displaying the rear view image on the monitors inside the vehicle.

Information

- The DSM monitor brightness is linked to the instrument cluster's brightness.
- The DSM camera angle is linked to the integrated memory system (IMS).

WARNING

Do not adjust or fold the DSM cameras while driving. It distracts you from driving and may cause an accident.

CAUTION

- The digital side mirrors show the rear view as an image, so the view may differ from the actual view and you cannot see the field of view out of the set position. Be careful while driving.
- The display of the DSM monitor may seem blur due to strong light sources such as direct sunlight and may temporarily be obscured by light smear or vehicle headlights. Use the inside rearview mirror, etc. to see around the vehicle.
- In certain situations, an image error may occur, such as the DSM monitor being out of focus or displaying incorrect colors. This makes it difficult to clearly see moving objects and causes your eyes to feel tired due to watching the monitor for a long time.

- Always pay attention to the condition of your vehicle while driving. If you think there is an error in the vehicle, immediately park in a safe place and we recommend that you contact an authorized HYUNDAI dealer.
 - If the DSM monitor display is not clear, the monitor lenses may be contaminated or foggy. Wipe the DSM camera lenses or activate the defroster to remove fog or foreign substances before driving. Be careful not to damage the lens while wiping, and be careful not to get burned by the operation of the defroster.
-

Operating the digital side mirrors

Turning on the DSM monitors

When you unlock the doors or start the vehicle remotely, the digital side mirrors will prepare for operation. When you open a door or unfold the DSM cameras, the DSM monitors will turn on.

Turning off the DSM monitors

- When you stop the vehicle and lock the doors, or seven minutes after stopping the vehicle, the DSM monitors will automatically turn off and the DSM cameras will fold.
- If you fold the DSM cameras while the vehicle is on, the DSM monitors will display a black screen and notify you that the digital side mirrors are folded.
- The DSM monitors are automatically turned on or off based on various conditions, such as the vehicle and door status.

DSM warnings and indicators

The warnings and indicators displayed on the DSM monitors are as follows.

	Explanation
	Driving assistance warning • Blind-Spot Collision-Avoidance Assist (BCA) • Safe Exit Warning/Assist (SEW/SEA) • Rear Cross-Traffic Collision-Avoidance Assist (RCCA)
	DSM check indicator
	DSM monitor off indicator • Displayed after seven minutes after the vehicle stops • Counts 10 seconds for screen off
	Wide view mode switch indicator

Displaying the guidelines

When you turn on the turn signal indicator to change lanes, the rearview screen and the lane change guidelines will be displayed on the DSM monitors.

- Red: 3 m away from the rear of the vehicle
- Orange: 12 m away from the rear of the vehicle

Setting the feature

On the infotainment system, press **'Settings > Vehicle > Convenience > Lane change assistance guideline'**.

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Guideline display conditions

The turn signal indicator is turned on.

Guideline removal conditions

- The vehicle is turned off.
- The turn signal indicator is turned off.
- The hazard warning light is turned on.

CAUTION

- The lane change guidelines may differ from the actual situation depending on your vehicle and the road conditions.
- To change lanes, turn on the turn signal indicator in advance and secure enough space in the lane before entering.

Adjusting the DSM cameras



1. With Start/Stop button in the ACC, ON or START position, move the DSM camera selection lever (1) to select L (Left) or R (Right).
2. Use the DSM camera adjustment switch (2) to adjust the camera angle.

NOTICE

Do not adjust the DSM cameras manually. Adjusting the DSM cameras manually may damage the related parts.

Folding/Unfolding the DSM cameras

DSM camera folding button



To fold or unfold the DSM cameras, press the DSM camera folding button.

Enable on door unlock (infotainment system)

If you select '**Settings > Vehicle > Lights > Welcome Mirror > On door unlock**' on the infotainment system,

- The DSM cameras will fold when locking the doors.
 - By pressing the door lock button (🔒) on the smart key
 - By touching the door lock/unlock sensor on the front outside door handles (the engraved part)

- The DSM cameras will unfold when unlocking the doors.
 - By pressing the door unlock button on the smart key
 - By touching the door lock/unlock sensor on the front outside door handles (the engraved part)

When **On door unlock** is selected, you can select **On driver approach**. If you select **On driver approach**, the DSM cameras will unfold when you approach the vehicle with the smart key.

i Information

- For your safety, the DSM cameras cannot be folded when driving at a speed of 15 km/h (9 mph) or faster.
- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

NOTICE

- You can control the DSM cameras when the Start/Stop button is in the OFF position, but excessive control may discharge the vehicle's battery.
- Always use the DSM camera folding button to fold or unfold the DSM cameras. Folding or unfolding the cameras manually may damage the motor. Also, vibrations or noises may be emitted from the DSM cameras while driving, indicating that the gears are not engaged correctly. In this case, engage the gears by folding and unfolding the camera again using the folding button.
- When cleaning the DSM camera lenses or the DSM monitors, do not spray the cleaner directly. Instead, coat it on a soft towel or cloth. If you spray the cleaner directly on the lenses or monitors, the cleaner may get inside, causing a malfunction.
- Do not scrape ice off the surface of the DSM camera lenses. Doing so may damage the lenses.
- Do not use warm or hot water to remove snow or ice from the camera lenses. Doing so may cause cracks in the lenses.
- If the DSM camera is jammed with ice, do not adjust the camera by force. Use an approved de-icer spray, or move the vehicle to a warm place and allow the ice to melt.

Switching to wide view when backing up



i Information

- The guidelines displayed on the DSM monitors while backing up indicate the following points.
 - 0.3 m (11 in.) away from the side of the vehicle
 - 0.5 m (19 in.) and 1 m (39 in.) away from the rear of the vehicle
- The wide view will be deactivated when you shift to N (Neutral) or D (Drive) and drive at a speed of 10 km/h (6 mph) or faster.
- The wide view appears only when the wide view switch feature is activated while backing up. In P (Park), N (Neutral), and D (Drive), the DSM monitors display the original view.

Setting wide view operation



Use the DSM camera selection lever (1) to select L (Left) or R (Right).

- When you shift to R (Reverse), the DSM monitors will display wide view.
- If you put the DSM camera selection lever (1) in the center, the DSM monitors will not display wide view.

⚠ CAUTION

If there is an error in the digital side mirror, the DSM monitors will not display the rear view and a warning message informing you to check the DSM system will appear on the instrument cluster. If this occurs, check the surroundings using the inside rearview mirror and immediately park your vehicle at a safe place, and we recommend that you contact an authorized HYUNDAI dealer.

Setting the DSM screen brightness

With the Start/Stop button in the ON position, on the infotainment system, select **'Settings > Display > Screen Brightness'** to change the brightness.

- Automatic Brightness or Manual Brightness adjustment (if equipped with rain sensor)
- Screen Brightness (Day/Night) setting (if the rain sensor is not equipped)

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

DSM camera defroster

To turn on the defroster manually, turn on the wiper or rear window defroster. The feature will be activated for a certain time

Windows

Right Hand Drive (Front/Rear)



- (1) Driver's door power window switch
- (2) Front passenger's door power window switch
- (3) Rear door (left) power window switch
- (4) Rear door (right) power window switch
- (5) Window opening and closing
- (6) Automatic power window
- (7) Power window lock switch

Power windows

The Start/Stop button must be in the ON position to be able to raise or lower the windows. Each door has a Power Window switch to control that door's window. The driver has a Power Window Lock button which can block the operation of rear passenger windows. The power windows will operate for approximately 3 minutes after the Start/Stop button is in the ACC or OFF position. However, if the front doors are opened, the Power Windows will not operate even within the 3 minute period.

Window opening and closing



To open:

Press the window switch down to the first detent position (5). Release the switch when you want the window to stop.

To close:

Pull the window switch up to the first detent position (5). Release the window switch when you want the window to stop.

Auto up/down window

Pressing the power window switch momentarily to the second detent position (6) completely lowers or lifts the window even when the switch is released. To stop the window at the desired position while the window is in operation, pull up or press down and release the switch.

⚠ WARNING

- Do not leave the vehicle running and the key in your vehicle with unsupervised children. Unattended children could operate the window, which could result in serious injury.
- Do not extend your head, arms or any other body parts or objects outside the window while driving to avoid serious injury.

Resetting the power windows

If the power windows do not operate normally, the automatic power window system must be reset as follows:

1. Press the Start/Stop button to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

If the power windows do not operate properly after resetting, we recommend that the system be inspected by an authorized HYUNDAI dealer.

⚠ WARNING

The automatic reverse feature doesn't activate while resetting the power window system. Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage.

Automatic reverse



If a window senses any obstacle while it is closing automatically, it will stop and lower approximately 30 cm (12 in.) to allow the object to be cleared.

If the window detects the resistance while the power window switch is pulled up continuously, the window will stop upward movement then lower approximately 2.5 cm (1 in.).

If the power window switch is pulled up continuously again within 5 seconds after the window is lowered by the automatic window reverse feature, the automatic window reverse will not operate.

i Information

The automatic reverse feature is only active when the "Auto Up" feature is used by fully pulling up the switch to the second detent.

NOTICE

Do not install any accessories on the windows. The automatic reverse feature may not operate.

⚠ WARNING

Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage.

Objects less than 4 mm (0.16 in.) in diameter caught between the window glass and the upper window channel may not be detected by the automatic reverse window and the window will not stop and reverse direction.

Power window lock button



The driver can disable the power window switches on the rear passenger doors by pressing the power window lock button.

When the power window lock button is pressed:

- The rear passenger control will not be able to operate the rear passenger power window.
- Note that the front passenger control is still able to operate the front passenger window, and that the driver master control can still operate all the power windows.

WARNING

Do not allow children to play with the power windows. Keep the driver's door power window lock button in the LOCK position. Serious injury or death can result from unintentional window operation by a child.

NOTICE

- To prevent possible damage to the power window system, do not open or close two windows or more at the same time. This will also ensure the longevity of the fuse.
 - Never try to operate the main switch on the driver's door and the individual door window switch in opposite directions at the same time. If this is done, the window will stop and cannot be opened or closed.
-

Remote window opening/closing function

 if equipped



You can still control the window movement with the vehicle turned off by pressing the Door Lock button (1) or the Door Unlock button (2).

- Press the door lock button for more than 3 seconds. The doors will lock and the windows will move up as long as you press the door lock button.
- Press the door unlock button for more than 3 seconds. The doors will unlock and the windows will move down as long as you press the door unlock button.

i Information

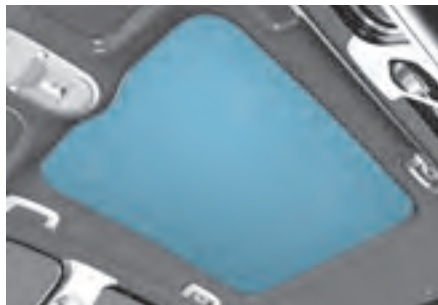
- The remote window opening/closing function will be operated only with the Safety Power Windows equipped.
- The remote window opening/closing function may abruptly stop when you move away from your vehicle during operation. Stay in close proximity from your vehicle, while monitoring the window movement.
- One of the windows may stop operating when the window is interrupted by certain force. However, the other windows will keep operating. Make sure that all windows are closed.
- Please be aware that the doors unlock when the windows are opened using the remote window open/closing function.

⚠ WARNING

Always double check to make sure arms, hands, head and other obstructions are safely out of the way before using remote window closing function.

Vision roof

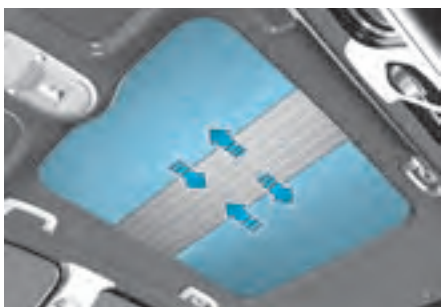
+ if equipped



If your vehicle is equipped with a vision roof, you can slide open the power sunshade and an all-glass roof appears.

Power sunshade

Use the power sunshade to block direct sunlight coming through the vision roof glass.



The power sunshade can only be operated when Start/Stop button is in the ON or START position.

- Push the switch rearward, the power sunshade automatically slides open.
- Push the vision roof switch forward, the power sunshade automatically closes.

To stop the power sunshade at any point, push the switch in any direction.

i Information

- The power sunshade can be operated for approximately 3 minutes after the Start/Stop button is in the ACC or OFF position. However, if the front door is open, the power sunshade cannot be operated even within the 3 minute period.
- Wrinkles formed on the power sunshade are normal due to material characteristic.

! WARNING

- Adjust the power sunshade when your vehicle stops. This could result in loss of control and an accident that may cause injury, or property damage.
- Do not leave the vehicle running and the key in your vehicle with unsupervised children. Unattended children could operate the power sunshade, which could result in injury.
- Do not sit on the top of the vehicle. It may cause injury or vehicle damage.

NOTICE

Do not pull or push the power sunshade by hand as such action may damage the power sunshade or cause it to malfunction.

Automatic reversal



If the power sunshade senses any obstacle while it is closing automatically, it will reverse direction then stop at a certain position.

The auto reverse function may not work if an object thin or soft is caught between the sliding power sunshade and vision roof sash.

WARNING

- Make sure heads, hands, arms or any other body parts or objects are out of the way before operating the power sunshade. Body parts or objects may get caught causing injuries or vehicle damage.
- Never deliberately use your body parts to test the automatic reversal function. The power sunshade may reverse direction, but there is a risk of injury.

NOTICE

Do not continue to push the switch after the power sunshade is fully opened or closed. Damage to the power sunshade motor could occur.

Resetting the vision roof



In some circumstances resetting the power sunshade operation may need to be performed. Some instances where resetting the power sunshade may be required include:

- When the 12 V battery is either disconnected or discharged
- When the power sunshade fuse is replaced
- If the power sunshade one-touch AUTO OPEN/CLOSE operation is not functioning properly

Vision roof resetting procedure:

1. It is recommended to perform the reset procedure with the vehicle in the ready mode. Start the vehicle in P (Park).
2. Make sure the power sunshade is in the fully closed position. If the power sunshade is open, push the switch forward until the power sunshade and is fully closed.
3. Release the switch when the power sunshade is fully closed.

4. Push the switch forward until the power sunshade moves slightly. Then release the switch.
5. Once again push and hold the switch forward until the power sunshade slides open and close. Do not release the switch until the operation is completed.

If you release the switch during operation, start the procedure again from step 2.

i Information

If the power sunshade is not reset when the vehicle battery is disconnected or discharged, or the power sunshade fuse is blown, the power sunshade may not operate normally.

Hood

Opening the hood

1. Park the vehicle and set the parking brake.
2. Pull the release lever to unlatch the hood. The hood should pop open slightly.



3. Go to the front of the vehicle, raise the hood slightly, push to the left the secondary hood release lever (1) inside of the hood center and lift the hood (2).



Closing the hood

1. Before closing the hood, check in and around the motor compartment to ensure the following:
 - Any tools or other loose objects are removed from the motor room area or hood opening area
 - All glove, rags, or other combustible material is removed from the motor compartment
 - All filler caps are tightly and correctly installed
2. Lower the hood halfway (lifted approximately 30 cm (12 in.) from the closed position) and push down to securely lock in place. Then double check to be sure the hood is secure. If the hood can be raised slightly, it is not securely locked. Open it again and close it with more force.

WARNING

- Before closing the hood, ensure all obstructions are removed from around the hood opening.
- Always double check to make sure that the hood is firmly latched before driving away. Check there is no hood open warning light or message displayed on the instrument cluster. Driving with the hood open may cause a total loss of visibility, resulting in a collision.
- Do not move the vehicle with the hood raised. It may block your vision and may result in a collision.

Front trunk

Opening the front trunk



- Open the hood.
- Lift up the front trunk cover while depressing the front trunk lever (1).

Closing the front trunk

Push down the front trunk cover to the right position.

Information

Available front trunk weight

- 2WD: 25kg (55 lbs)
- 4WD: 10kg (25 lbs)

Available front trunk weight depends on the specifications.

WARNING

- NEVER make an attempt to get inside the front trunk. It will cause a fatal injury.
 - Before closing the hood, ensure all obstructions are removed from around the hood opening. The hood will rise up or move down automatically if the height is not firmly adjusted. Be aware of the damage caused by the unintended hood movements.
 - Never store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.
-

CAUTION

- Do not exceed the luggage volume capacity of the front trunk. The overweighted front trunk can be severely damaged.
 - Do not store the fragile objects in the front trunk.
 - ALWAYS keep the front trunk cover closed securely while driving. Items inside your vehicle are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items can be damaged.
 - Do not spray water in the front trunk. Vehicle driving system may get damaged since the front trunk is located at the center of motor compartment.
 - Be careful when you store any liquid in the front trunk. If liquid leak outside the front trunk, it will cause a damage to the electric devices in the motor compartment.
 - Do not press the front trunk cover or place the objects on the front trunk cover. It may be deformed or damaged.
 - When closing the front trunk cover, be careful not to touch objects inside the trunk. Loaded objects or the front trunk may be deformed or damaged and the front trunk cover may be opened during driving due to poor closing, resulting in joints and damage.
-

NOTICE

To avoid possible theft, do not leave valuables in the storage compartments.

Power tailgate

Power tailgate operating conditions

The power tailgate operates when the gear is in P (Park) with the Start/Stop button is in the ON position. The tailgate operates regardless of the gear position when the vehicle is off.

For safety, before attempting to open or close the tailgate, make sure the vehicle is in P (Park).

WARNING

- Never leave children or animals unattended in your vehicle. Children may operate the power tailgate. Doing so can result in injury to themselves or others and can damage the vehicle.
- Make sure that there are no people or objects in the path of the power tailgate or smart tailgate prior to use. Serious injury, damage to the vehicle or damage to surrounding objects (for example, walls, ceilings, vehicles, etc.) may result if contact with the tailgate occurs.



- The tailgate may not open or may close unintentionally injuring people around the tailgate under the following situation:

- There is a lot of snow on the tailgate.
- There is a heavy object on the tailgate such as a bicycle carrier, ladder, etc.

Do not open the tailgate before removing snow or heavy object on the tailgate.

NOTICE

- Do not close or open the tailgate manually. This may cause damage to the power tailgate. If it is necessary to close or open the tailgate manually when the battery is discharged or disconnected, do not apply excessive force.
- Do not operate the power tailgate more than 10 times continuously when the vehicle is not running. Use the power tailgate with the vehicle running when the power tailgate is used repeatedly to prevent battery discharge.
- Do not leave the power tailgate open for a long period of time. This may drain the battery.
- Do not apply excessive force when the power tailgate is operating. Doing so could result in vehicle damage.
- Do not grab or hold on to the tailgate support struts at any time. Damage to the tailgate support struts could result. Deformation of the tailgate support struts may cause vehicle damage and personal injury may occur.



- Do not modify or repair any part of the power tailgate by yourself. We recommend that you consult an authorized HYUNDAI dealer.
 - Do not operate the power tailgate under the following conditions. The power tailgate may not operate properly.
 - One side of the vehicle is lifted to inspect the vehicle or change a tire
 - Parking on an uneven road such as a slope, etc.
 - Close the tailgate completely and lock all doors and tailgate using the central door lock button before using an automatic car wash.
 - Do not spray high pressure water directly on the power tailgate outside open/close button. The tailgate may open unintentionally.
-

i Information

- In cold and wet climates, the outside power tailgate open/close button may not work properly due to freezing conditions. If this occurs, remove the ice before using the outside power tailgate open/close button or use the power tailgate open/close button on the smart key or the instrument panel.
 - If you leave the smart key in the tailgate and close the tailgate, a warning sounds for a few seconds. If this occurs, open the tailgate by pressing the power tailgate open button on the outside of the tailgate.
 - If there are obstacles such as snow on the tailgate, the tailgate may not open automatically. After removing the obstacle, try to open it again.
 - Be careful where there is an incline, as the tailgate lid may drop slightly when it is stopped before it fully opens.
-

Operating the power tailgate

Power tailgate open/close button (smart key, instrument panel)

Type A



Type B



When the tailgate is closed, press the power tailgate open/close button for 1 second. The power tailgate opens with a warning sound.

While the tailgate is opening, press the button to stop tailgate operation.

When the power tailgate is opened, press and hold the power tailgate open/close button to close the tailgate. If you release the button while the tailgate is closing, power tailgate operation will stop with a warning sound for 5 seconds.

Also, if the smart key is not within operation range from the vehicle, power tailgate operation will stop with a warning sound for 5 seconds.

WARNING

Make sure that there are no people or objects in the path of the tailgate before pressing the open/close button inside the power tailgate and the smart key. Otherwise, this may cause serious injury or damage to the vehicle or object.

Power tailgate open/close button (Outside the power tailgate)



When the tailgate is closed, press the power tailgate open/close button to open the tailgate.

If the vehicle is locked, press the power tailgate open/close button with the smart key in your possession.

If the tailgate is unlocked, the tailgate will open or close with a warning sound when the power tailgate open/close button is pressed without carrying the smart key.

Power tailgate open/close button (Inside the power tailgate)



Press the power tailgate open/close button. The tailgate opens or closes automatically.

Automatic reversal

During power tailgate operation if the power tailgate senses any obstacle, the tailgate will stop or will fully open. The automatic reverse feature may not operate properly, or it may operate unexpectedly under the following circumstances:

- The automatic reverse feature may not detect the resistance if the detected resistance is below a certain level, or if the tailgate is almost fully closed near the latched position.
- The automatic reverse feature may operate if a strong impact is applied with no obstructions placed.

WARNING

Never intentionally place any object or part of your body in the path of the power tailgate to make sure the automatic reverse feature operates. Serious injury, or damage to the vehicle or object may occur.

Information

The power tailgate may stop operating if the automatic reverse feature operates more than two times while attempting to open or close the tailgate. If this occurs, carefully open or close the tailgate manually, and then after 30 seconds try to operate the power tailgate automatically again.

Setting the power tailgate

To use each feature, you must select the opening speed or opening height from the settings menu. Deselect the settings when you do not want to use the feature.

Power tailgate opening speed

To adjust the power tailgate opening speed, Select **Settings > Vehicle > Door > Power Tailgate Opening Speed** in the infotainment system.

Power tailgate opening height

To adjust the power tailgate opening height, Select **Settings > Vehicle > Door > Power Tailgate Opening Height** in the infotainment system.

Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

User height setting

1. Position the tailgate manually to the height you prefer.
2. Press the power tailgate open/close button located inside the tailgate for more than 3 seconds.

If **User height setting** is selected for the power tailgate opening height, the power tailgate will automatically open to the height manually set by you.

i Information

- If the power tailgate opening height has not been manually set, the power tailgate will fully open when **User height setting** in the infotainment system is selected.
- If one of the height setting (**Full open/Level 3/Level 2/Level 1**) is selected in the infotainment system, and then **User height setting** is selected, the tailgate opens to the height manually set by you.
- The power tailgate opening speed and opening height settings change according to the linked User Profile. If the User Profile is changed, power tailgate opening speed and opening height settings change accordingly.

Resetting the power tailgate

In some circumstances resetting the power tailgate operation may need to be performed. Some instances where resetting the power tailgate may be required include:

- When the 12 V battery is recharged
- When the 12 V battery is reinstalled after removal or replacement
- When the related fuse is reinstalled after removal or replacement

1. With the vehicle off or running, put the gear in P (Park).
2. Press the power tailgate open/close inner and outer buttons simultaneously until a chime sounds.
3. Slowly close the tailgate manually.
4. Press the power tailgate open/close outer button. The power tailgate will open with a chime sound.

Wait until the tailgate fully opens to complete resetting. If the tailgate stops before it is fully open, resetting cannot be completed.

i Information

If the power tailgate does not operate properly after the above procedure, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

Emergency tailgate safety release



To unlock and open the tailgate manually from inside the luggage compartment, perform the following procedure:

1. Insert a long, flat object, such as a key into the opening at the bottom of the tailgate.
2. Slide the latch in the direction of the arrow to unlock the tailgate.
3. Push the tailgate to open.

WARNING

- For emergencies, be fully aware of the location of the emergency tailgate safety release latch in the vehicle and how to open the tailgate if you are accidentally locked in the luggage compartment.
- Never allow anyone to occupy the tailgate of the vehicle at any time. The cargo area is a very dangerous location in the event of a collision because it is part of the vehicle's crush zone.
- Use the release lever for emergencies only.

Smart tailgate

 if equipped



On a vehicle equipped with a smart key, the tailgate can be opened with hands-free activation using the smart tailgate system.

Using smart tailgate

The hands-free smart tailgate system can be opened automatically when the following conditions are met:

- The smart tailgate option is enabled in the Settings menu in the infotainment system screen.
- The smart tailgate is activated and ready 15 seconds after all the doors are closed and locked.
- The smart tailgate will open when the smart key is detected in the area behind the vehicle for 3 seconds.
- When disconnecting the charging connector, the smart tailgate is activated.

i Information

The smart tailgate will NOT operate when:

- A door is not locked or closed.
- The smart key is detected within 15 seconds from when the doors were closed and locked.
- The smart key is detected within 15 seconds after the doors are closed and locked, and within 1.5 m (60 in.) from the front door handles. (for vehicles equipped with Welcome Mirror).
- The smart key is in the vehicle.
- The vehicle is on charge.

1. Settings

To use smart tailgate, it must be enabled from the Settings menu in the infotainment system screen. Select:

- **Settings > Vehicle > Door > Smart Tailgate**

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

2. Detect and Alert

The smart tailgate detecting area extends about 50-100 cm (20-40 in.) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights blink and the chime sounds before opening.

i Information

If you unintentionally enter the detecting area and the hazard warning lights and chime starts, move away from the vehicle with the smart key. The tailgate remains closed.

3. Automatic opening

After the hazard warning lights blink and the chime sounds 6 times, the smart tailgate will open.

Deactivating smart tailgate

If you press any button on the smart key during the Detect and Alert stage, the smart tailgate will be deactivated.

Using the smart key:

- If you press the door unlock button, the smart tailgate is deactivated temporarily. If you do not open any door for 30 seconds, the smart tailgate is activated again.
- If you press the tailgate open button for more than 1 second, the tailgate opens.
- The smart tailgate is still activated if you press the door lock button or tailgate open/close button as long as the smart tailgate is not in the Detect and Alert stage.

Detecting area



- The smart tailgate detecting area extends approximately 50-100 cm (20-40 in.) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights will blink and the chime will sound for about 3 seconds to alert you that the tailgate will open.
- The alert stops once the smart key is moved outside of the detecting area within the 3 second period.

i Information

- Smart tailgate may not operate properly if any of the following occur:
 - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
 - The smart key is near a cellular two way radio system or a cellular phone.
 - Another vehicle's smart key is being operated close to your vehicle.
 - The temperature drops below zero degree.
- Smart tailgate detecting area may change when:
 - The vehicle is parked on an incline or slope.
 - One side of the vehicle is raised or lowered relative to the opposite side.

Electric charging door

The driver can open and close the charging door with the following methods:

- When the shift gear is in P (Park), push the charging door to open (1)
- Push the Close button (2) located inner part of the charging door



[A] Charging door to open
[B] Charging door to close

- Press the charging door button in the instrument panel



NOTICE

- If the charging door does not open because ice has formed around it, tap lightly or push on the door to break the ice and release the door. If necessary, use hand temperature to melt down the ice or move the vehicle to a warm place and allow the ice to melt. Do not pry on the charging door or use unauthorized tools to open the charging door.
- Make sure that the charging door is closed before driving the vehicle. If the charging door is opened, mechanical parts of the charging door can be damaged.
- After closing the charging door, be sure to check that the warning light is off.
- After charging the vehicle, close the charging inlet by the charging inlet cover properly. If the charging inlet cover is closed improperly, the charging inlet and the charging door can be damaged.
- Do not pry on the charging door while the charging door is opening. The charging door may stop moving. Also, the electrical mechanism of the charging door and its related parts can be severely damaged.
- While washing the vehicle, do not spray a high pressure water to the charging door directly. The high pressure can damage the charging door.

**CAUTION**

- The charging door opens upwards. Check the surrounding while the charging door is open or close. Be aware of your head or limbs being hit or caught by the charging door.
- Do not hold the hinge to prevent damaging the charging door and causing other accidents.

i Information

- The charging door automatically closes when:
 - The charging connector is disconnected
 - The door is opened and the charging connector is not connected for a certain period of time
 - The gear is not in P (Park)
- After replacing battery (12 V), open and close the charging door once to check that the charging door automatic opening mechanism is functioning properly.

For more information, refer to "Charging your electric vehicle" section in chapter 1.

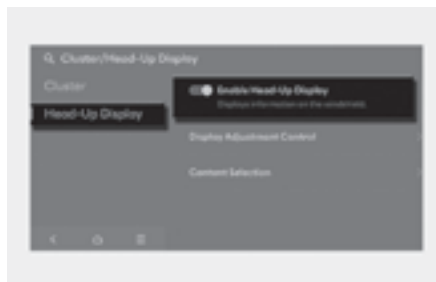
Head-up display (HUD)

 if equipped



The Head-Up Display is an optional feature that allows the driver to view information projected onto a transparent screen while still keeping your eyes safely on the road ahead while driving.

Head-up display settings



- Head-up display can be enabled from the Settings menu in the infotainment system. Select **Settings** > **Cluster/Head-up display** > **Head-up display** > **Enable head-up display**.
- After turning on the head-up display, you can change the settings of "**Display adjustment**" and "**Content selection**" of the Head-Up Display.

Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Head-up display information



- (1) Turn by Turn (TBT) navigation information
- (2) Traffic signs or speed limit information
- (3) Speedometer information
- (4) SCC set speed information
- (5) SCC vehicle distance information
- (6) Lane Following Assist information
- (7) Lane Safety information
- (8) Blind-Spot Safety information
- (9) Highway Auto Speed Change information (if equipped)
- (10) Highway Driving Assist information (if equipped)
- (11) Surrounding vehicle information (if equipped)

Precautions while using the Head-up display

- It may sometimes be difficult to read information on the Head-Up Display in the following situations.
 - The driver is improperly positioned in the driver's seat
 - The driver wears polarizing-filter sunglasses
 - An object is located above the head-up display cover
 - The vehicle is driven on a wet road
 - Any improper lighting accessory is installed inside the vehicle, or there is incoming light from outside of the vehicle
 - The driver wears glasses
 - The driver wears contact lenses
 - The driver is too tall or short
- When it is difficult to read the Head-up display information, adjust the image position or brightness level in the infotainment system.
- Since the information displayed on the head-up display partially overlaps with the road ahead, you may feel fatigue and discomfort while driving. If you feel tired or uncomfortable, adjust the image, and if the symptoms persist, turn off the head-up display before driving.
- For your safety, make sure to stop the vehicle before adjusting the settings.

- Do not tint the front windshield glass or add other types of metallic coating. Otherwise, the Head-Up Display image may be invisible.
- Do not place any accessories on the crash pad or attach any objects on the windshield glass.
- When replacing the front windshield glass, replace it with a windshield glass designed for Head-Up Display operation. Otherwise, duplicated images may be displayed on the windshield glass.

WARNING

- The warning information of Blind-Spot Safety on the Head-Up Display are supplemental. Do not solely depend on them to change lanes. Always take a look around before changing lanes.
 - ALWAYS pay attention on the road while driving when the Head-Up Display is on.
-

Vehicle system OTA update

The OTA (Over-the-Air) software update feature allows you to wirelessly update software to the latest version. Using this feature, you can keep your vehicle system up to date with the latest software.

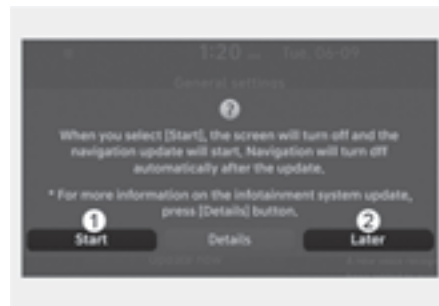
Information

The OTA software update feature is only available for Hyundai Blue Link users.

Downloading software

The latest software can be downloaded automatically while driving. After the latest software has been successfully downloaded, you will receive a notification on your phone or the vehicle screen that the software update is available.

Approving software update



After the vehicle is turned off, the vehicle system allows you to start the update.

- To start the update, press **Start** (1).
- To postpone the update, press **Later** (2).

Preparing software update

If you press the **Start** button on the screen, the vehicle begins installing the update automatically. The following conditions must be satisfied:

- The vehicle must be off.
- The gear must be in P (Park).
- The Electronic Parking Brake (EPB) must be applied.
- The exterior lights must be turned off.
- The hood must be closed.
- The battery must be sufficient.
- The systems to be updated must not be running.

i Information

The battery and system status are automatically checked by the vehicle.



- To update immediately, press **Update Now**.
- To cancel the update, press **Cancel Update**.

Updating software



You can see the progress of the update on the screen.

After the update is complete, you will receive a notification on your phone or the vehicle screen that the software update is complete.

i Information

The screen turns off automatically after 3 minutes to save the battery. If the screen turns off automatically, you can check the update progress by pressing the Start/Stop button.

i Information

- After the update starts, you can exit the vehicle.
 - The OTA software update feature is only available for HYUNDAI Connected Services users.
 - The update details may vary depending on the installed software version.
 - Check the notice for the OTA software update on the HYUNDAI brand web.
 - If the update fails, the update recovery will automatically proceed. If you want to retry the software update, even after a successful recovery, we recommend that you contact an authorized HYUNDAI dealer/service center.
 - If the update or recovery fails, we recommend that you contact an authorized HYUNDAI dealer/service center.
 - After the update is complete, it may provide new functions or improvements. For more information, see the "OTA Software Update" page on the HYUNDAI brand web or scan the QR code on the screen.
-

NOTICE

- Observe the following restrictions during the update.
 - You cannot use the vehicle during the update. Be sure to have enough time for the update, and safely park the vehicle before starting the update process.
 - You cannot use remote features, including remote start.
 - Vehicle charging is not available. For Electrified vehicles, charge the vehicle after the update is completed.
 - The Rear Occupant Alert feature may not work. Check if there are any occupant in the rear seat.
- If the update includes the digital key function, the door lock/unlock function via the digital key may not work. If the digital key function is updated by checking the notice, use the button on the smart key to lock or unlock the door.
- The update is automatically canceled if any vehicle conditions required for the update are changed before starting the update.

- Once the update has started, you cannot cancel the update.
- Note that the high-voltage-related modules for charging the 12 V battery may work during the update.
- You cannot use the OTA software update feature if you modify or replace any vehicle software.
- Do not open the hood or replace the battery in the vehicle during the update. The update may fail.
- If a diagnostic tool of any kind is connected to the vehicle OBD (On-board Diagnostic) terminal, the vehicle cannot be updated. The vehicle can be updated by removing the diagnostic tool connected to the OBD terminal and then restarting the vehicle.
- If the update is not complete successfully, we highly recommend that you contact an authorized HYUNDAI dealer/service center.

Exterior lights

Lighting control

To operate the lights, turn the knob at the end of the control lever to one of the following positions:

Type A



Type B

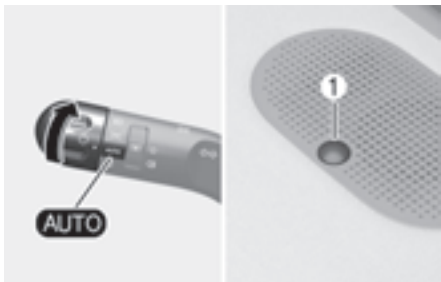


Type C



- (1) OFF
- (2) AUTO light
- (3) Position light
- (4) Headlight

AUTO headlight



The position light and headlight are turned ON or OFF automatically depending on the amount of daylight as measured by the ambient light sensor (1) in front of the instrument panel.

Even with the AUTO headlight feature in operation, it is recommended to manually turn ON the headlights when driving at night or in a fog, driving in the rain, or when you enter dark areas, such as tunnels and parking facilities.

NOTICE

- Do not cover or spill anything on the sensor (1) located at the upper end of the windshield glass.
- Do not clean the sensor using a window cleaner, the cleanser may leave a light film which could interfere with sensor operation.
- If your vehicle has window tint or other types of metallic coating on the front windshield, the AUTO headlight system may not work properly.

Position light



The position light, license plate light and instrument panel lamp are turned ON.

Headlight



The headlight, position light, license plate light and instrument panel lamp are turned ON.

i Information

The Start/Stop button must be in the ON position to turn on the headlight.

High beam operation



To turn on the high beam headlight, push the lever away from you. The lever will return to its original position.

The high beam indicator illuminates when the headlight high beams are switched on.

To turn off the high beam headlight, pull the lever towards you. The low beams will turn on.

WARNING

Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.



To flash the high beam headlight, pull the lever towards you, then release the lever. The high beams will remain ON as long as you hold the lever towards you.

Turn signals and lane change signals



To signal a turn, push down on the lever for a left turn or up for a right turn in position (A).

If an indicator stays on and does not flash or if it flashes abnormally, one of the turn signal bulbs may be burned out and will require replacement.

One touch turn signal

To use One Touch Turn Signal push the turn signal lever up or down to position (B) and then release it.

The lane change signals will blink 3, 5 or 7 times.

You can enable the One touch turn signal function or choose the number of blinking by selecting **Settings > Vehicle > Lights > One touch turn indicator > 7 flashes/5 flashes/3 flashes/Off** in the infotainment system.

***i* Information**

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Rear fog light



To turn on the rear fog light:

Position the headlight switch in the headlight position, and then turn the headlight switch (1) to the rear fog light position.

To turn the rear fog lights off, do one of the following:

- Turn off the headlight switch.
- Turn the headlight switch (1) to the rear light position again.

Battery saver function

To prevent the battery from being discharging, the system automatically turns off the position light when the driver turns the vehicle off and opens the driver's door.

With this feature, the position lights turn off automatically if the driver parks on the side of road at night.

To keep the lights on when the vehicle is turned off:

1. Open the driver's door.
2. Turn the position lights OFF and ON again using the headlight switch.

Headlight levelling device

 if equipped



To adjust the headlight beam level according to the number of the passengers and loading weight in the luggage area, turn the beam leveling switch.

The higher the number on the switch position, the lower the headlight beam level. Always keep the headlight beam at the proper leveling position, or headlights may dazzle other road users.

Listed below are examples of appropriate switch settings for varying loads. For loading conditions other than those listed, adjust the switch position to the most similar situation.

Loading condition	Switch position
Driver only	0
Driver + Front passenger	0
Full passengers (including driver)	1
Full passengers (including driver) + Maximum permissible loading	2
Driver + Maximum permissible loading	3

WARNING

If the function does not work properly, we recommend that the system be inspected by an authorized HYUNDAI dealer. Do not attempt to inspect or replace the wiring yourself.

Headlight delay function

If the Start/Stop button is in the ACC or OFF position with the headlights ON, the headlights (and/or position lights) remain on for about 5 minutes.

If the driver's door is opened and closed, the headlights are turned off after 15 seconds. Also, with the vehicle off if the driver's door is opened and closed, the headlights (and/or position lights) are turned off after 15 seconds.

The headlights (and/or position lights) can be turned off by pressing the lock button on the smart key twice or turning the headlight switch to the OFF or AUTO position.

You can enable the headlight delay function by selecting **Settings > Vehicle > Lights > Headlight time-out** in the infotainment system.

NOTICE

If the driver exits the vehicle through another door besides the driver's door, the battery saver function does not operate and the headlight delay function does not turn OFF automatically.

To avoid battery discharge, turn OFF the headlights manually from the headlight switch before exiting the vehicle.

Interior button lights

The interior button lights turns on or off in the following conditions:

- The interior button lights turn on for awhile when the door is unlocked and opened after all doors were closed and locked.
- The interior button lights always turns on when the vehicle is turned on.
- The interior button lights turn on for awhile when the vehicle is turned off. If the door is opened and closed or locked, the interior button lights turn off immediately.

You can enable the interior button lights by selecting **Settings > Vehicle > Lights > Interior lights On** in the infotainment system.

Daytime Running Light (DRL)

The Daytime Running Lights (DRL) can make it easier for others to see the front of your vehicle during the day, especially after dawn and before sunset.

The DRL system will turn the dedicated lamp OFF when:

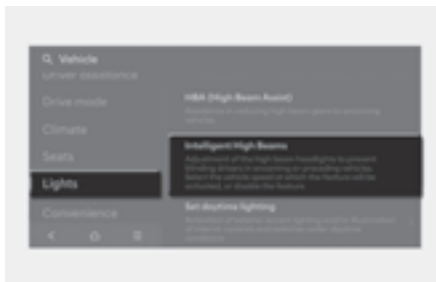
- The headlights are ON.
- The parking brake is applied.
- The vehicle is turned off.

Intelligent Front-lighting System (IFS)

 if equipped

Intelligent Front-Lighting System secures a clear view for the driver with the high beam on while driving at night.

System settings



With the Start/Stop button in the ON position, select **Settings > Vehicle > Lights > Intelligent High Beams** (or **Smart High Beam**) from the Settings menu to turn on Intelligent Front-Lighting System and deselect to turn off the system.

WARNING

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

Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Information

For Europe

Travel Mode must be turned on for the headlamp on the driver's side to turn off when driving from a left-hand drive country to a right-hand drive country and vice versa.

To turn on the Travel mode, select **Settings > Vehicle > Light > Travel Mode** from the infotainment system.

System operation

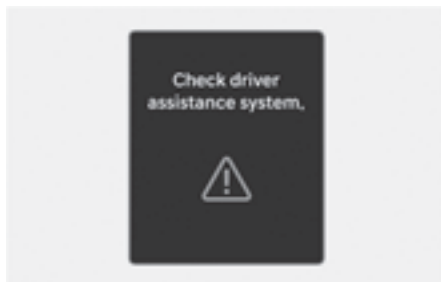


After selecting **Intelligent High Beams** (or **Smart High Beam**) in the Settings menu to operate Intelligent Front-Lighting System:

- Place the headlamp switch in the **AUTO** position and push the headlamp lever toward the instrument cluster. The Intelligent Front-Lighting System () indicator light illuminates on the cluster and the system is enabled.
- When the system is enabled, Intelligent Front-Lighting System operates according to the set speed in the infotainment system. The initial system is set to work when vehicle speed is above 40 km/h (25 mph).
- The high beam LED partially turns off if an oncoming vehicle or a vehicle ahead is detected by the front view camera.
- If Intelligent Front-Lighting System detects an oncoming vehicle or a vehicle ahead while driving at high speed (about above 100 km/h (60 mph), the driver's side headlamp turns off and only the passenger's side headlamp is controlled by the system.

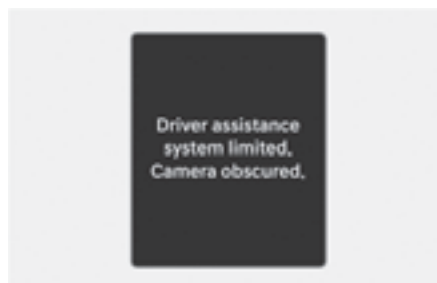
System malfunction and limitations

System malfunction



When Intelligent Front-Lighting System does not work properly, the "**Check Driver Assistance system.**" warning message may appear for a few seconds on the instrument cluster. After the message disappears, the AFS and ⚠ warning lights illuminate on the instrument cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.

System disabled



When the front view camera is covered or blocked, the Intelligent Front-Lighting System may temporarily not work properly. The "**Driver Assistance system limited. Camera obscured.**" warning message may appear on the instrument cluster.

The system operates normally when such foreign material is removed.

WARNING

- Intelligent Front-Lighting System may not operate properly even if there is no warning message or warning light on the instrument cluster.
- Intelligent Front-Lighting System may not operate properly in open areas where no objects are detected (e.g. empty parking lot) or when the detecting sensors are blocked right after turning on the engine.

Limitations of the system

Intelligent Front-Lighting System may not operate normally:

- The headlamps from an oncoming or front vehicle is damaged or out of the detection range.
- The headlamps from an oncoming or front vehicle are covered with dust, snow, or water.
- An oncoming or front vehicle's headlamps are off but the fog lamps are on.
- There are lamps that have a similar shape as a vehicle's lamp ahead.
- The headlamps are not repaired or replaced properly.
- The headlamps are not aimed properly.
- You are driving on a narrow curved road, rough road, uphill, or downhill.
- A front vehicle is partially visible on a crossroad or curved road.
- There is a traffic light, reflecting sign, LED sign, or reflectors ahead.
- There is a temporary reflector or flash ahead (construction area).
- The road is wet or covered with snow or ice.
- A vehicle suddenly appears from a curve.
- The vehicle is tilted due to a flat tire or being towed.
- There are many street lights or the ambient light is bright.
- Light from another vehicle is not detected because of exhaust fumes, smoke, fog, snow, etc.
- The front windshield is covered with foreign material.

NOTICE

To prevent damage:

- Never disassemble the camera sensors or camera sensor assemblies.
- We recommend that the sensor be replaced or repaired by an authorized HYUNDAI dealer.
- Never install any accessories, stickers, or tint the front windshield.
- Always keep the camera dry.
- Never place any reflective objects (e.g. white paper, mirror) on the dashboard.
- Do not use any cleanser containing acid or alkaline detergents when cleaning the camera lenses. Use only a mild soap or neutral detergent, and rinse thoroughly with water.



WARNING

- Always check road conditions, and if necessary, take appropriate actions to drive safely. It is your responsibility to operate your vehicle in a safe manner.
 - If Intelligent Front-Lighting System does not operate properly, use the turn signal lever to switch between high beam and low beam.
-

High Beam Assist (HBA)

 if equipped



High Beam Assist automatically switches between high beam and low beam depending on the detected brightness from the lights of oncoming vehicles or vehicles in front.

Detecting sensor



[A] front view camera

The front view camera is used as a detecting sensor to detect ambient light and brightness while driving.

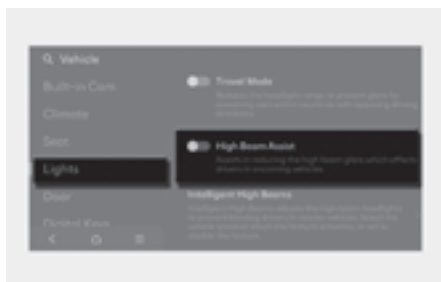
Refer to the picture above for the detailed location of the detecting sensor.

NOTICE

- Always keep the front view camera in good condition to maintain optimal performance of High Beam Assist.
- For more details on the precautions of the front view camera, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

High Beam Assist settings

Setting features



With the Start/Stop button in the ON position, select **Settings > Vehicle > Lights > HBA (High Beam Assist)** in the infotainment system to turn on High Beam Assist and deselect to turn off the function.



WARNING

Only change the settings after parking your vehicle at a safe location.

High Beam Assist operation

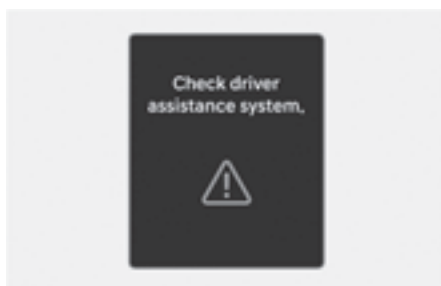
- After selecting '**High Beam Assist**' from the infotainment system to operate High Beam Assist:
 - Place the headlight switch in the AUTO position and push the headlight lever towards the instrument cluster. The High Beam Assist (HBA) indicator light illuminates.
 - When High Beam Assist is enabled, high beams turn on when the vehicle speed is above 30 km/h (20 mph) and the High Beam (HBA) indicator illuminates. When the vehicle speed is below 20 km/h (12 mph), high beams do not turn on and the indicator light illuminates in white.
- When High Beam Assist is operating:
 - If the turn signal lever is pulled toward you when the high beams are off, the high beams turn on. When you let go of the turn signal lever, High Beam Assist operates again.
 - If the turn signal lever is pulled toward you when the high beams are on by High Beam Assist, the low beams turn on and High Beam Assist turns off.
 - If the turn signal lever is pushed away from you, the high beams turn on and High Beam Assist turns off.
 - If the headlight switch is moved from AUTO to another position (headlight/position/off), the corresponding light turns on and High Beam Assist turns off.
- When High Beam Assist is operating, high beam switches to low beam if:
 - The headlights of an oncoming vehicle are detected.
 - The tail lights of a front vehicle are detected.
 - The headlight or tail light of a motorcycle or a bicycle is detected.
 - The surrounding ambient light is bright enough so high beams are not required.
 - Streetlights or other lights are detected.

i Information

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

High Beam Assist malfunction and limitations

High Beam Assist malfunction



When High Beam Assist is not working properly, the "**Check driver assistance system.**" warning message may appear, and the  warning light may illuminate on the instrument cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.

Limitations of High Beam Assist

High Beam Assist may not work properly in the following situations:

- The headlights from an oncoming or front vehicle is damaged or out of the detection range.
- The headlights from an oncoming or front vehicle are covered with dust, snow, or water.
- An oncoming or front vehicle's headlights are off but the fog lights are on.
- There are lights that have a similar shape as a vehicle's light ahead.
- The headlights are not repaired or replaced properly.
- The headlights are not aimed properly.
- You are driving on a narrow curved road, rough road, uphill, or downhill.
- A front vehicle is partially visible at across road or on a curved road.
- There is a temporary reflector or flash ahead (construction area).
- There is a traffic light, reflecting sign, LED sign, or reflectors ahead.
- The road is wet or covered with snow or ice.
- A vehicle suddenly appears from a curve.
- The vehicle is tilted from a flat tire or is being towed.
- The headlights from an oncoming or front vehicle is not detected because of exhaust fumes, smoke, fog, snow, blizzard, water spray on the road, or windshield condensation, etc.

i Information

For more information on the limitations of the front view camera, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

! WARNING

- Always check road conditions, and if necessary, take appropriate actions to drive safely. It is your responsibility to operate your vehicle in a safe manner.
 - If High Beam Assist does not operate properly, use the turn signal lever to switch between high beam and low beam.
 - High Beam Assist may not operate for 15 seconds right after your vehicle is started or when the front view camera is initialized.
-

Interior lights

! WARNING

Do not use the interior lights when driving in the dark. The interior lights may obscure your view and cause an accident.

NOTICE

Do not use the interior lights for extended periods when the vehicle is turned off. Otherwise, the battery discharges.

Interior lamp AUTO off

The interior lights automatically go off about 20 minutes after the vehicle is turned off and the doors are closed. If a door is opened, the light go off 25 minutes after the vehicle is turned off. If the doors are locked by the smart key and the vehicle enters the armed stage of the theft alarm system, the lights go off 5 seconds later.

Front lights



- : Press the lens to turn on or off the map lamp. This light produces a spot beam for convenient use as a map lamp at night or as a personal lamp for the driver and the front passenger.
- : Press the button to turn on the room lamp for the front and rear seats.
- : Press the button to turn on the mood lamp. Press again to turn the lamp off.
- : The front or rear room lamps come on when the front or rear doors are opened. When doors are unlocked by the smart key, the front and rear lamps come on for about 30 seconds as long as any door is not opened. The front and rear room lamps go out gradually after about 30 seconds when the door is closed. However, if the Start/Stop button is in the ON position or all doors are locked, the front and rear lamps turn off. If a door is opened with the Start/Stop button in the ACC or OFF position, the front and rear lamps stay on for about 5 minutes.

Rear lamps

Room lamp (without vision roof)



Personal lamp (with vision roof)



, : Press the button to turn on and off the rear room lamp.

Vanity mirror lamp



Push the switch to turn the lamp on or off.

- ☀: The lamp turns on if this button is pressed.
- ○: The lamp turns off if this button is pressed.

NOTICE

Always have the switch in the off position when the vanity mirror lamp is not in use. If the sunvisor is closed without the lamp off, it may discharge the battery or damage the sunvisor.

Glove box lamp



The glove box lamp turns on for about 20 minutes when the glove box is opened.

NOTICE

Close the glove box after use to prevent unnecessary battery discharge.

Mood lighting



To set the brightness and color of the mood light, Select **Settings > Vehicle > Lights > Ambient lighting** in the infotainment system.

- If the **Linked to drive mode** is selected, the mood light color changes according to the selected drive mode.
- If you do not want to use mood lighting, set **Brightness** to **0** in the infotainment system.

i Information

- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
- The color of the mood light may seem different under some conditions depending on the color of the interior and the set mood color.

Front trunk lamp



The lamp illuminates when the trunk opens.

The lamp keeps coming on when the trunk is not completely closed.

CAUTION

Make sure it is fully closed after closing the trunk. If it is left open without starting vehicle, the lamp comes on and the battery may be discharged.

Cargo area lamp



The cargo area lamp turns on when the tailgate is opened and off when the tailgate is closed.

NOTICE

Close the tailgate after use to prevent unnecessary battery discharge.

Wipers and washers

Front windshield wiper/washer - Type A



Front windshield wiper/washer - Type B



Front windshield wiper/washer - Type C



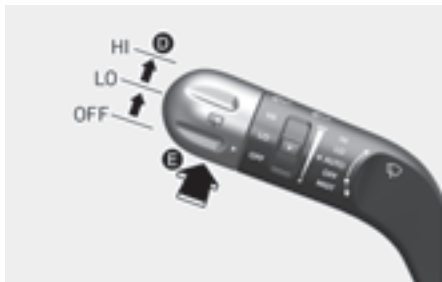
Rear windshield wiper/washer - Type A



Rear windshield wiper/washer - Type B



Rear windshield wiper/washer - Type C

**A. Wiper speed control**

- **HI/2:** High wiper speed
- **LO/1:** Low wiper speed
- **INT/---**: Intermittent wipe

AUTO (if equipped): Auto control wipe

- **OFF/O:** Off
- **MIST/1x:** Single wipe

B. Intermittent wipe time adjustment/Auto control wipe time adjustment

C. Wash with brief wipes

D. Rear wiper control

- **HI/2:** High wiper speed
- **LO/1:** Low wiper speed
- **OFF/O:** Off

E. Wash with brief wipes (rear)

Front windshield wipers

Operates as follows when the vehicle is turned on.

- **HI/2**: The wiper runs at a higher speed.
- **LO/1**: The wiper runs at a lower speed.
- **INT/---**: Wiper operates intermittently at the same wiping intervals. To vary the speed setting, turn the speed control knob.

AUTO (if equipped): The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops. To vary the speed setting, turn the speed control knob.

- **OFF/O**: Wiper is not in operation.
- **MIST/1x**: For a single wiping cycle, push the lever downward and release. The wipers will operate continuously if the lever is held in this position.

i Information

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed to prevent damage to the wiper and washer system.

AUTO (Automatic) control

 if equipped



The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the interval of the wiping cycle.

To change the sensitivity setting, turn the sensitivity control knob.

If the wiper switch is set in the **AUTO** mode when the Start/Stop button is in the **ON** position, the wiper operates once to perform a self-check of the system. Set the wiper to the **OFF(O)** position when the wiper is not used.

WARNING

To avoid personal injury:

- Do not touch the upper end of the windshield glass facing the rain sensor.
 - Do not wipe the upper end of the windshield glass with a damp or wet cloth.
 - Do not put pressure on the windshield glass.
-

NOTICE

- When washing the vehicle, set the wiper switch in the **OFF(O)** position to stop the auto wiper operation.
- Do not remove the sensor cover located on the upper end of the passenger side windshield glass.

Front windshield washers

In the **OFF/O** position, pull the lever gently toward you to spray washer fluid on the windshield and to run the wipers 1-3 cycles. The spray and wiper operation continues until you release the lever. If the washer does not work, you may need to add washer fluid to the washer fluid reservoir.

Recirculating air when washer fluid is used

When washer fluid is used, in order to reduce any objectionable scent of the washer fluid from entering the cabin, recirculation mode and air conditioning are automatically activated depending on the outside temperature. If you select fresh mode while the function is operating, the function will resume after a certain amount of time. It may not work in some conditions such as cold weather or vehicle OFF.

For more information, refer to "Climate control additional features" section in this chapter.

WARNING

When the outside temperature is below freezing, ALWAYS warm the windshield using the defroster to help prevent the washer fluid from freezing on the windshield and obscuring your vision which could result in an accident and serious injury or death.

Always use appropriate washer fluids in the winter season or cold weather.

NOTICE

To prevent damage:

- Do not operate the washer when the fluid reservoir is empty or when the windshield is dry.
 - Do not operate the wipers when the windshield is dry.
 - Do not attempt to move the wipers manually.
 - Use anti-freezing washer fluids in the winter season or cold weather.
-

Rear windshield wipers and washers



The rear window wiper and washer switch is located at the end of the wiper and washer switch lever. Turn the switch to the desired position to operate the rear wiper and washer.

- **HI/2:** High wiper speed
- **LO/1:** Low wiper speed
- **OFF/O:** Off

Auto rear wiper

The rear wiper operates while the vehicle is in reverse with the front wiper on.

You can select the function by selecting **Settings > Vehicle > Convenience > Auto rear wiper (reverse)** in the infotainment system.

For more information, refer to the "Recirculating air when washer fluid is used" section in chapter 5.

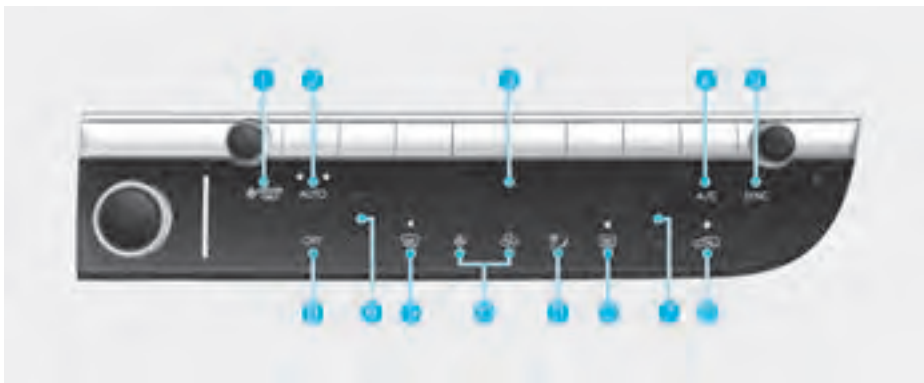
Rear windshield washers



Push the lever away from you to spray rear washer fluid and to run the rear wipers 1-3 cycles. The spray and wiper operation continues until you release the lever.

Automatic climate control system

Climate control panel



The actual shape may differ from the illustration.

- (1) Driver only mode
- (2) AUTO (automatic control)
- (3) Climate control information screen
- (4) A/C (air conditioning)
- (5) SYNC
- (6) Driver's temperature control
- (7) Passenger's temperature control
- (8) OFF
- (9) Front windshield defroster
- (10) Fan speed control
- (11) Mode selection button
- (12) Rear windshield defroster
- (13) Air intake control

i Information

Use a clean soft microfiber cloth to gently wipe any finger prints off the touch screen.

Automatic heating and air conditioning

The Automatic Climate Control System is controlled by setting the desired temperature.

1. With the vehicle ON, press the **AUTO** button. The modes, fan speeds, air intake, and air conditioning are controlled automatically by the temperature setting.

You can control the fan speed in three stages by pressing the **AUTO** button during automatic operation.

- **HIGH:** Provides rapid air conditioning and heating with the maximum fan speed setting range.
- **MEDIUM:** Provides air conditioning and heating with the mid-level fan speed setting range.
- **LOW:** Fan speed is set to the lowest setting range.



2. Press the temperature control button to set the desired temperature. If the temperature is set to the lowest setting, the air conditioning system operates continuously. After the interior has cooled sufficiently, adjust the button to a higher temperature set point whenever possible.



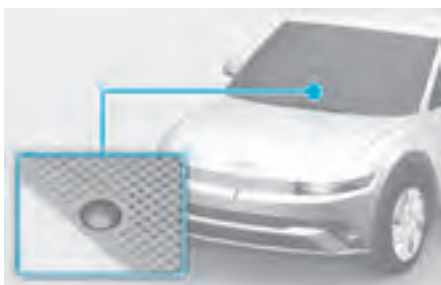
To turn off the automatic operation, select any button of the following:

- Fan speed level
- A/C (Air condition)
- Mode selection
- Front windshield defroster

The selected function is controlled manually while other functions operate automatically.

For your convenience and to improve the effectiveness of the climate control, use the **AUTO** button and set the temperature to 22 °C (72 °F).

i Information



Never place anything near the ambient light/solar sensor to ensure better control of the heating and cooling system.

Manual heating and air conditioning

1. With the vehicle ON, set the mode selection button to the desired position.

i Information

For improving the effectiveness of heating and cooling, select:

- Heating:
- Cooling:

2. Set the temperature control to the desired temperature.
3. Set the air intake control to the recirculation mode or outside (fresh) air position.
4. Set the fan speed control to the desired speed.
5. If air conditioning is desired, turn on the air conditioning system.
6. Press the **AUTO** button to convert to full automatic control of the system.

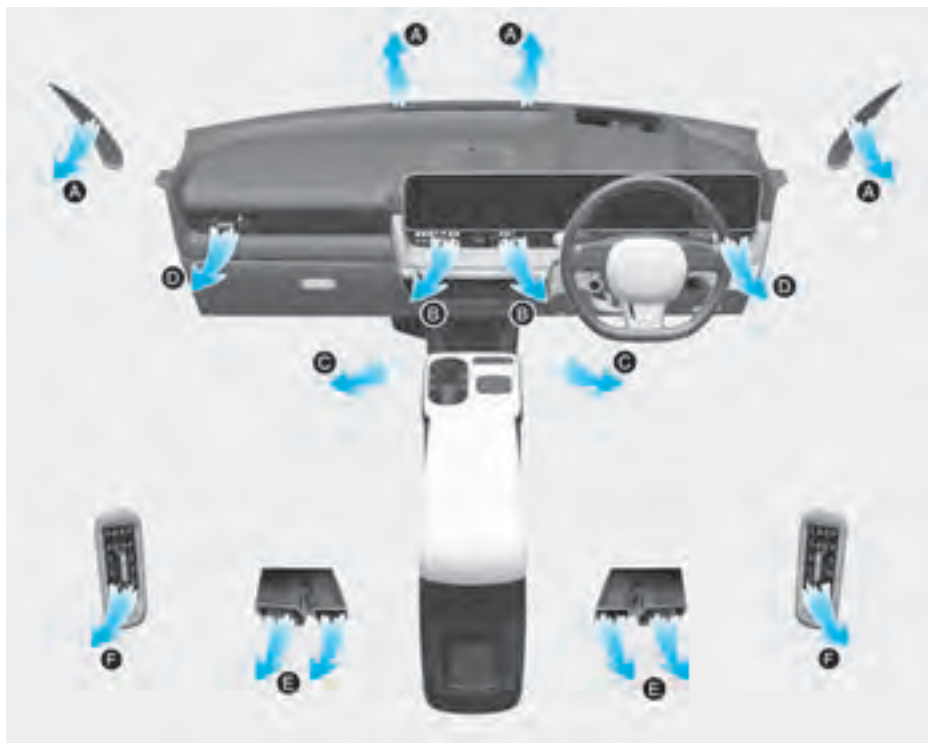
Mode selection



The mode selection button controls the direction of the air flow through the ventilation system.

Air flow direction

Right-hand drive



Convenience features

Symbol	Operation	Direction
	Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.	B, D, F
	Air flow is directed toward the face and the floor.	B, C, D, E, F
	Air flow is directed toward the face, the floor and the windshield.	A, B, C, D, E, F
	Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield and side window defrosters.	A, C, D, E
	Most of the air flow is directed to the floor and the windshield with a small amount directed to the side window defrosters.	A, C, D, E
	Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.	A, D

Front windshield defroster

Press the front windshield defroster button (indicator light ON) to turn on the front windshield defroster. If the windshield defogging is set, outside (fresh) mode is automatically selected and the air conditioning turns on according to the detected ambient temperature.

Press the front windshield defroster button once more (indicator light OFF) to turn the function off. Each climate control setting reverts to the setting prior to selecting the front windshield defrost.

Instrument panel vents

Front seat



Rear seat



- The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.
- The air flow can be closed when the vent adjustment lever is pushed to the  position.

Temperature control



Press the ▲ button to increase the temperature. Press the ▼ button to decrease the temperature.

Temperature conversion (°C ↔ °F)

To change the temperature unit from °C to °F or °F to °C:

- Select **Settings > General > Unit > Temperature unit > °C/°F** in the infotainment system.

Driver only



If you press the **DRIVER ONLY** button (indicator light ON), most of the air flow is directed toward the driver's seat.

i Information

Some of the airflow may be directed to other seating position to keep indoor air pleasant while using **DRIVER ONLY**.

When using the front windshield defroster, the air flow on the both sides of windshield will continue to operate regardless of the activation of **DRIVER ONLY**.

SYNC (Adjusting the driver and passenger side temperature equally)



Adjusting the temperature, air flow direction, and fan speed equally

Press the **SYNC** button (indicator light ON) to adjust the driver and passenger side temperature, air flow direction, and fan speed equally.

Adjusting the temperature individually

Press **SYNC** button (indicator light OFF) again to adjust the driver and passenger side temperature individually.

Air intake control

Recirculation mode



With the recirculated air selected, air from the passenger compartment is drawn through the climate control system.

Outside (fresh) mode



With the outside (fresh) air selected, air enters the vehicle from outside and is drawn through the climate control system.

i Information

Using the system in the fresh air position is recommended.

Prolonged operation of the heater in the recirculated air position (without air conditioning selected) can cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

⚠ WARNING

To prevent serious injury or death:

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside the vehicle that could fog the windshield and the side windows and obscure visibility.
 - Do not sleep in a vehicle with the air conditioning or heating system on.
 - Continued climate use of recirculated air may cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position while driving.
-

Fan speed control



Press the **⚙** button to increase fan speed and airflow. Press the **⚙** button to decrease fan speed and airflow.

i Information

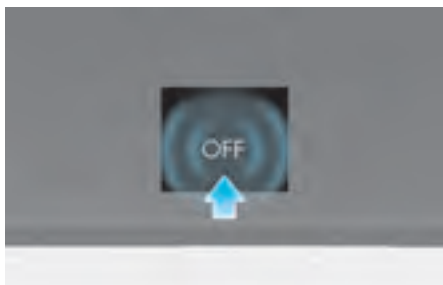
Operating the fan speed when the Start/Stop button is in the OFF position may cause the battery to discharge.

Air conditioning



Press the **A/C** button to manually turn on the system on (indicator light ON) and off.

OFF mode



Press the **OFF** button to turn the climate control system off. You can still operate the mode and air intake buttons as long as the Start/Stop button is in the ON position.

System operation

Cooling / Ventilation

1. Set the mode to the  position.
2. Set the air intake control to the outside (fresh) air position.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Set the mode to the  position.
2. Set the air intake control to the outside (fresh) air position.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. If desired, turn the air conditioning ON with the temperature set high in order to dehumidify the air before it enters into the cabin.

If the windshield fogs up, set the mode to  position.

Operation Tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This can help keep the driver alert and comfortable.
- To help prevent interior fog on the windshield, set the air intake control to the fresh air position and the fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to the desired temperature.

Air conditioning

Your HYUNDAI vehicle air conditioning system is filled with R-134a or R-1234yf refrigerant.

1. Start the vehicle. Press the air conditioning button.
2. Set the mode to the  position.
3. Set the air intake control to outside air or recirculated air position.
4. Adjust the fan speed control and temperature control as desired.

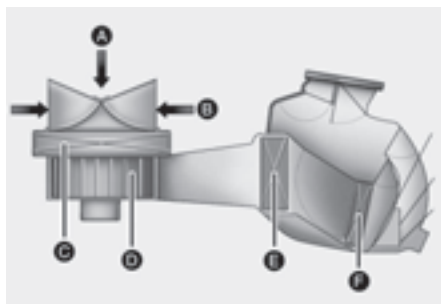
When maximum cooling is desired, set the temperature control to the lowest position, then set the fan speed control to the highest setting.

Air conditioning system operation tips

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let the hot air inside the vehicle escape.
- After sufficient cooling has been achieved, switch back from recirculated air position to the fresh outside air position.
- To help reduce moisture inside of the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system with the windows closed.
- Use the air conditioning system every month only for a few minutes to ensure maximum system performance.
- If you operate air conditioner excessively, the difference between the temperature of the outside air and that of the windshield may cause the outer surface of the windshield to fog up, causing loss of visibility. In this case, set the mode selection to the  position and fan speed control to the lowest speed.

System maintenance

Cabin air filter



- [A] Outside air
- [B] Recirculated air
- [C] Climate control air filter
- [D] Blower
- [E] Evaporator core
- [F] PTC & Inner condenser

The cabin air filter is installed behind the front trunk. It filters the dust or other pollutants that enter the vehicle through the heating and air conditioning system.

We recommend that the cabin air filter be replaced by an authorized HYUNDAI dealer according to the maintenance schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads and/or if transporting pets or occupants smoke inside the vehicle, then more frequent cabin air filter inspections and changes are required.

i Information

- Replace the filter according to the Maintenance Schedule. If the vehicle is being driven in severe conditions such as dusty, rough roads, more frequent climate control air filter inspections and changes are required.
- When the air flow rate suddenly decreases, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also reduces the performance of the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorized HYUNDAI dealer.

NOTICE

It is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.

⚠ WARNING

Vehicles equipped with R-1234yf



To prevent serious injury, have the air conditioning system be serviced by only trained and certified technicians. R-1234yf is flammable and operated at high pressure.

Reclaim all refrigerants with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

Vehicles equipped with R-134a



To prevent serious injury, have the air conditioning system be serviced by only trained and certified technicians. R-134a is operated at high pressure.

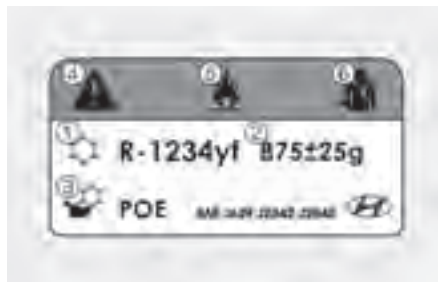
Reclaim all refrigerants with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

Air conditioning refrigerant label



You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the hood.

Type A



Type B



Type C



Type D



Each symbol and specification on the air conditioning refrigerant label is represented as the following:

- (1) Classification of refrigerant
- (2) Amount of refrigerant
- (3) Classification of compressor lubricant
- (4) Caution
- (5) Flammable refrigerant
- (6) To require registered technician to service air conditioning system
- (7) Service manual
- (8) CO₂ equivalent of refrigerant

Windshield defrosting and defogging

⚠ WARNING

Do not use the defrost level  position during cooling operation in extremely humid weather. The outer surface of the windshield may fog and reduce visibility, causing a collision that results in serious injury or death.

Set the mode selection button to the face level  position and lower the fan speed.

- For maximum defrost performance, set the temperature control switch to the highest temperature setting and the fan speed control to the highest setting.
- If warm air to the floor is desired while defrosting or defogging, select the floor defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, rearview mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet to improve heater and defroster efficiency and to reduce the probability of fogging up the inside of the windshield.

Automatic climate control system

To defog inside windshield



1. Select any fan speed. Set the fan speed to the highest position for quick defogging.
2. Select the desired temperature.
3. Press the defroster button (🌀).
4. The outside (fresh) air is selected automatically. The air conditioning automatically operates. If the air conditioning, outside (fresh) air position are not selected automatically, adjust the corresponding switch.

To defrost outside windshield



1. Set the fan speed to the highest position.
2. Set the temperature to the hottest position.
3. Press the defroster button (🌀).
4. The air conditioning turns on according to the detected ambient temperature and the outside (fresh) air position is selected automatically.

Defogging logic

To reduce the probability of fogging up the inside of the windshield, the air intake or air conditioning are controlled automatically according to certain conditions. To cancel or reset the defogging logic, do the following.

1. Press the Start/Stop button to the ON position.
2. Press the defroster button (🌀) or (🌀) for more than 3 seconds.

The air intake control button indicator blinks 3 times to indicate that the defogging logic has been disabled. Repeat the steps again to re-enable the defogging logic.

If the battery has been discharged or disconnected, it resets to the defog logic status.

Rear window defroster

NOTICE

Never use sharp instruments or window cleaners containing abrasives to clean the window to prevent damage to the rear window defroster.

The defroster heats the window to remove frost, fog and thin ice from the interior and exterior of the rear window, while the vehicle is running.

- To activate it, press the rear window defroster button located in the center control panel. The indicator on the rear window defroster button illuminates when the defroster is ON.



- To turn it off, press the rear window defroster button again.

i Information

- If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.
- The rear window defroster automatically turns off after about 20 minutes or when the Start/Stop button is in the OFF position.

Outside rearview mirror defroster

The side view mirror defrosters operate when you turn on the rear window defroster.

Climate control additional features

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Air conditioner auto-drying

The Air conditioner auto-drying feature dries the moisture in the air conditioner and reduces air conditioner odor. The blower motor automatically operates after 30 minutes the vehicle is turned off.

The Air conditioner auto-drying feature can be turned on and off by selecting **Settings > Vehicle > Climate > Climate features > Air conditioner auto-drying**.

If the operating condition is satisfied after setting the feature, the operating condition appears on the infotainment system and the blower motor automatically operates.

When the Air conditioner auto-drying feature is activated, the air conditioner sets the fan speed to the third level, selects outside (fresh) position, and directs the air flow to the vent.

Operating conditions

The Air conditioner auto-drying feature operates under the following conditions:

- The vehicle is turned off after operating the air conditioner for a certain period.
- The battery level is sufficient and the outside temperature is above a certain level.

Non-operating conditions

The Air conditioner auto-drying feature stops operating under the following conditions:

- The Air conditioner auto-drying feature has operated for 10 minutes.
- The Start/Stop button is pressed, or the vehicle is ON.
- The climate control system is operated remotely.

***i* Information**

The Air conditioner auto-drying feature reduces air conditioner odors but may not remove all odors.

Auto defogging system



The Auto defogging reduces the likelihood of fogging up the inside of the windshield by automatically sensing the moisture on inside of the windshield.

The Auto defogging system operates when the heater or air conditioning is on.

***i* Information**

The auto defogging system may not operate normally, when the outside temperature is below -10 °C (14 °F).

When the Auto defogging system operates, the  indicator illuminates.

If high amount of humidity is detected in the vehicle, the Auto defogging system is enabled.

The following steps are performed automatically:

- Except Europe

Step 1) Air conditioning will turn ON.

Step 2) Air intake control will change to Fresh mode.

Step 3) Mode will change to defrost to direct airflow to the windshield.

Step 4) Fan speed will be set to MAX.

- For Europe

Step 1) Air conditioning will turn ON.

Step 2) Air intake control will change to Fresh mode.

Step 3) Fan speed will be set to MAX.

Step 4) Mode will change to defrost to direct airflow to the windshield.

If the air conditioning is off or recirculated air is manually selected while Auto defogging system is ON, the Auto defogging system  indicator blinks to signal that manual operation has been canceled.

Turning the Auto Defogging System ON or OFF

Climate control system

Press the front windshield defroster button for 3 seconds when the Start/Stop button is in the ON position. When the Auto defogging system is turned off, the  symbol blinks 3 times and appears on the climate control information screen.

When the Auto defogging system is turned on, the  symbol blinks 6 times without a signal.

Infotainment system

Auto defogging system can be turned on and off by selecting **Settings > Vehicle > Climate > Defog/Defrost options > Auto defog** in the infotainment system.

***i* Information**

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

***i* Information**

- When the air conditioning is turned on by Auto Defogging System, if you try to turn off the air conditioning, the indicator will blink 3 times and the air conditioning will not be turned off.
- Do not select recirculated air while the Auto defogging system is operating.
- When Auto defogging system is operating, fan speed adjustment, temperature adjustment, and air intake control selection are all disabled.

NOTICE

Do not remove the sensor cover located on the top of the windshield glass. Damage may not be covered by your vehicle warranty.

Auto dehumidify

 If equipped

To increase cabin air quality and reduce windshield misting, recirculation mode switches off automatically after about 5 to 30 minutes, depending on the outside temperature, and the air intake changes to the outside (fresh) air position.

Turning Auto Dehumidify ON or OFF**Climate control system**

To turn the Auto dehumidify feature on or off, select Face level (→) mode and press the air intake control (↺) button at least 5 times within 3 seconds while pressing the **A/C** button. When Auto dehumidify is turned on, the air intake control button indicator blinks 6 times. When turned off, the indicator blinks 3 times.

Infotainment system

Auto dehumidify can be turned on and off by selecting **Settings > Vehicle > Climate > Automatic ventilation > Auto dehumidify** in the infotainment system.

Recirculating air when washer fluid is used

 If equipped

Recirculation mode automatically activates to reduce the scent of the washer fluid entering the cabin when the windshield washer is used.

When it is shifted to the recirculation mode, the unpleasant scent may flow into the vehicle.

However, in cold weather to prevent the windshield from fogging up, the recirculation mode may not be selected.

Turning Activation on a washer fluid use on or off**Climate control system**

To turn the Activate on washer fluid use feature on or off, select Floor level (↺) mode, and then press the air intake control (↺) button 5 times within 3 seconds.

When Activate on washer fluid use is turned on, the air intake control button indicator blinks 6 times. When turned off, the indicator blinks 3 times.

Infotainment system

Activate on washer fluid use can be turned on and off by selecting **Settings > Vehicle > Climate > Internal air circulation > Activation on washer fluid use** in the infotainment system.

Recirculating air when entering a tunnel

 if equipped

To prevent the inflow of polluted air into the vehicle when passing through a tunnel, the windows and climate control system are operated using the navigation map information and vehicle speed as follows:

To use this feature, it can be enabled from the infotainment system. Select: **Settings > Vehicle > Climate > Internal air circulation**

- **Activation upon Entering a Tunnel:**
The vehicle's windows automatically close, and the climate control system switches to recirculation mode for about 7 seconds before entering a tunnel.

The windows open to the previous position after passing through the tunnel. If the power window switch is operated before the windows open, the windows do not return to the previous position.

Operating conditions

- The climate control system's fresh mode is selected.
- The window(s) are open.
The windows close automatically only when your vehicle is applied with the automatic up/down window feature for all seats.

Information

- The activation time for the feature may differ because of the time gap between the GPS and vehicle speed.
- The feature activates until you have passed through continuous tunnels.
- When entering a tunnel, recirculation mode may cause fogging of the windshield. Use the front windshield defroster button.
- The feature does not operate in short tunnels.
- The feature may not activate if the GPS is not working properly.
- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

WARNING

Be careful not to get any body parts caught when the windows are closing.

Storage compartment

WARNING

Never store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.

WARNING

ALWAYS keep the storage compartment covers closed securely while driving. Items inside your vehicle are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items may fly out of the compartment and may cause an injury if they strike the driver or a passenger.

NOTICE

To avoid possible theft, do not leave valuables in the storage compartments.

Center console storage

Console Box



To open :

Grab and hold the latch on the arm rest then lift the lid.

- This space provides objects storing compartment.

Sliding console

 if equipped



To slide the console (2) forward/backward, pressing the handle (1) and pull or push the console to the desired position.

Check if the console box makes a 'click' sound, after moving the center console box.

CAUTION

Use of excessive force to the console box may damage the sliding rail or the control lever.

WARNING

Do not move the sliding console while driving. This may cause injuries during sudden stops or collisions.

Glove box



To open:

Pull the lever (1).

WARNING

ALWAYS close the glove box door after use.

An open glove box door can cause serious injury to the passenger in an accident, even if the passenger is wearing a seat belt.

NOTICE

Use of excessive force to the glove box may damage the sliding rail or the lever.

Interior features

Cup holder

Cups or small beverages cups may be placed in the cup holders.

Front



Rear



WARNING

- Avoid abrupt starting and braking when the cup holder is in use to prevent spilling your drink. If hot liquid spills, you could be burned. Such a burn to the driver could cause loss of vehicle control resulting in an accident.
- Do not place uncovered or unsecured cups, bottles, cans, etc., in the cup holder containing hot liquid while the vehicle is in motion. Injuries may result in the event of a sudden stop or collision.
- Only use soft cups in the cup holders. Hard objects can injure you in an accident.

NOTICE

- Keep your drinks sealed while driving to prevent spilling your drink. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/electronic parts.
- When cleaning spilled liquids do not use hot air to blow out or dry the cup holder. This may damage the interior.
- Keep cans or bottles out of direct sun light and do not put them in a hot vehicle. It may explode.

Sunvisor



To use the sunvisor, pull it downward.

To use the sunvisor to block the sun from the side window, pull it downward, release it from the bracket (1) and swing it to the side (2) towards the window.

To use the vanity mirror, pull down the sunvisor and slide the mirror cover (3).

Adjust the sunvisor forward or backward (4) as needed (if equipped). Use the ticket holder (5) to hold tickets.

Close the vanity mirror cover securely and return the sunvisor to its original position after use.

WARNING

For your safety, do not block your view when using the sunvisor.

NOTICE

The tab (5) adjacent to the vanity mirror on the sunvisor can be used for toll road tickets or self parking tickets. Use caution when inserting tickets into the ticket holder to avoid damage. Refrain from putting several tickets in the ticket holder as this could also damage the retaining tab.

Power outlet

Front



Rear



The power outlet is designed to provide power for cellular telephones or other devices designed to operate with vehicle electrical systems. The devices should draw less than 180 W with the vehicle running.

WARNING

Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

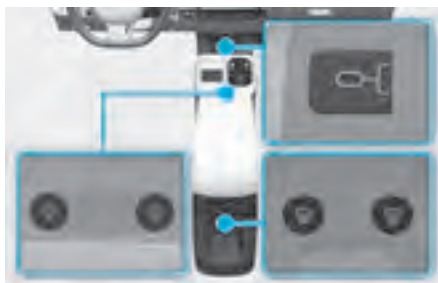
NOTICE

To prevent damage to the power outlets:

- Use the power outlet only when the vehicle is running and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the vehicle off could cause the battery to discharge.
- Only use 12 volts electric accessories which are less than 180 watts in electric capacity.
- Adjust the air-conditioner or heater to the lowest operating level when using the power outlet.
- Close the cover when not in use.
- Some electronic devices can cause electronic interference when plugged into a vehicle's power outlet. These devices may cause excessive audio static and malfunctions in other electronic systems or devices used in your vehicle.
- Push the plug in as far as it will go. If good contact is not made, the plug may overheat and the fuse may open.
- Only connect devices with reverse current protection or the current from the device battery may cause the vehicle's electrical/electronic system to malfunction.

USB charger

 if equipped



The USB charger is designed to recharge batteries of small size electronic devices using a USB cable.

Electronic devices can be charged when the vehicle is running.

i Information

- The battery charging state may be monitored on the electrical device.
- Disconnect the USB cable from the USB port after use.
- A smart phone or a tablet PC may get warmer during the re-charging process. It does not indicate any malfunction with the charging system.
- A smart phone or a tablet PC that does not use a USB cable to charge should be charged using its own charger.
- Do not attempt to use the charging terminal either to turn on an audio or to play media with the infotainment system.
- Charging may not be possible when using a Type-C to A converter sold by a cellular phone manufacturer or commercially available.

NOTICE

- Use the USB charger when the vehicle is running. Using the USB charger for prolonged periods of time with the Start/Stop button in the ON position (vehicle off) may cause the battery to discharge.
- To prevent damage to the USB charger:
 - Do not insert foreign objects or spill liquid into the outlet. The USB charging terminal may be damaged.
 - Do not use devices with working current exceeding 3,000 mA (3.0 A).
- When charging an electrical device by using an USB converting adapter (C to A type), use a genuine adapter specified for your vehicle. A commonly used adapter is not equipped with any measures to prevent over current and maintain stability.

Using an unspecified cable may damage the vehicle's USB charger or the connected devices. We recommend you contact an authorized HYUNDAI dealer for more information on accessories for HYUNDAI vehicles.

- The use of non-genuine parts may damage the USB port and infotainment system. Damage cannot be covered by your vehicle warranty.
-

Cluster fascia side panel



The cluster fascia side panel is a pad to attach light items such as parking tickets, receipts, etc., using its magnetic surface.

NOTICE

Do not attach heavy items such as cellular phones. Dropping while driving, the items can be damaged.

WARNING

Do not attach the cellular phones and heavy or sharp items to the cluster fascia side panel for safety reason.

This could result in loss of control, and an accident causing death, serious injury, or property damage.

Wireless smart phone charging system

 If equipped



[A] Indicator light
[B] Charging pad

Charging your smartphone

The wireless smartphone charging system charges only the Qi-enabled smartphones (Φ). Visit your smartphone manufacturer's website to check whether your smartphone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled smartphone on the wireless charging with the screen facing up.

1. The wireless smartphone charger is available when all doors are closed, and when the Start/Stop button is in the ON or START position.
2. Turn on the wireless charging function in the infotainment system.
 - Select **Settings > Vehicle > Convenience > Wireless charging system for cellular devices**
3. Place the smartphone on the center of the wireless charging pad. The indicator light is orange when the smartphone is charging and turns blue when phone charging is complete.

i Information

- Remove other items, including the smart key from the wireless charging pad.
- For flip type smartphones, when using wireless charging, place the smartphone folded with the device's back placed on the center of the wireless charging unit.

If your smartphone is not charging:

- Move the smartphone on the charging pad.
- Make sure the indicator light is orange.

The indicator light blinks orange for 10 seconds if there is a malfunction in the wireless charging system.

The system warns you with a message on the cluster display if the smartphone is still on the wireless charging pad after the vehicle is turned OFF and the front door is opened.

NOTICE

- The wireless smartphone charging system may not support certain smartphones, that do not meet for the Qi specification (Φ).
- When placing your smartphone on the charging pad, position the phone in the middle of the mat for optimal charging performance. If your smartphone is off to the side, the charging rate may be less and in some cases the smartphone may experience higher heat conduction.
- Wireless charging may stop temporarily when the smart key is used, either when starting the vehicle or locking/unlocking the doors, etc.
- When charging certain smartphones, the charging indicator may not change to blue when the smartphone is fully charged.
- The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless smartphone charging system. The wireless charging process does not restart, until the temperature falls.
- The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless smartphone charging system and smartphone.
- For some manufacturer's smart phones, the system may not warn you even though the smart phone is left on the wireless charging unit. This is due to the particular characteristic of the smart phone and not a malfunction of the wireless charging.
- When using a smartphone application, such as Android Auto, while charging, the charging process may be delayed or interrupted due to the smartphone overheating. This issue is not related to the wireless charging system but rather caused by the smartphone's self-heating. Therefore, disconnect the smartphone from the charging pad.
- If the smartphone has a thick case, it may not charge.
- Some magnetic items such as credit cards, phone cards, or transit cards may be damaged if left with the smartphone during the charging process.
- If the smartphone is not completely contacting the charging pad, wireless charging may not operate properly.
- If the Start/Stop button is in the OFF position, the charging also stops.
- When any smartphone without a wireless charging function or a metallic object is placed on the charging pad, a small noise may sound. This small sound because the vehicle discerns compatibility of the object placed on the charging pad. It does not affect your vehicle or the smartphone.

- Some smartphones may not be able to charge depending on the internal structure of the smartphone. If this occurs, try charging the smartphone by moving it to the left or right side of the wireless charging pad. However, for some fold-able smartphones that have magnets inside the smartphone, try charging the smartphone while holding it close to the left side of the wireless charging pad.
- Wireless charging speed varies depending on the wireless charging policy and product specifications set by each smartphone manufacturer. You can check your smartphone's maximum wireless charging speed in the user manual provided by the smartphone manufacturer.
- It is normal for your smartphone to heat up during the charging process. When using Android Auto or Apple CarPlay, your smartphone may heat up more quickly, and the charging process may be slower.

NOTICE

Some magnetic items like credit cards, phone cards or rail tickets may be damaged if left with the smartphone during the charging process.

Vehicle to load (V2L)



V2L(Vehicle to Load) is installed at the central rear seat bottom. V2L is a convenient feature which provides enough electricity to use diverse household electrical appliances in the vehicle.

For more information, refer to the "Using V2L function" section in chapter 1.

Coat hook

Rear



This hook is not designed to hold large or heavy items.

WARNING

Only hang soft clothing without heavy, sharp or breakable objects in the clothes pockets. In a collision or when the curtain airbag is inflated, the objects could move and cause serious injury.



Floor mat anchor(s)

ALWAYS use the floor mat anchors to attach the front floor mats to the vehicle. The anchors on the front floor carpet keep the floor mats from sliding forward.

WARNING

To prevent serious injury or death from a floor mat interfering with the brake or accelerator pedals:

- Remove any protective film on the carpet before installing a floor mat.
- Check floor mats are securely attached to the vehicle's floor mat anchors before driving.
- Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (e.g. all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat must be installed in each position.

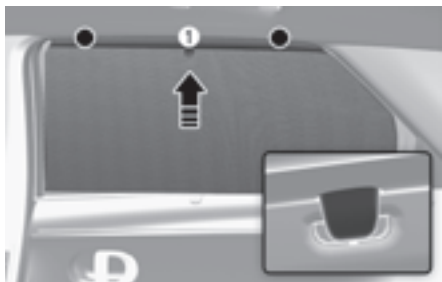
WARNING

To avoid any interference with pedal operation, HYUNDAI recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.

Rear side window sunshades

 if equipped

Use the rear side window sunshade to block external light coming through the rear window glass.



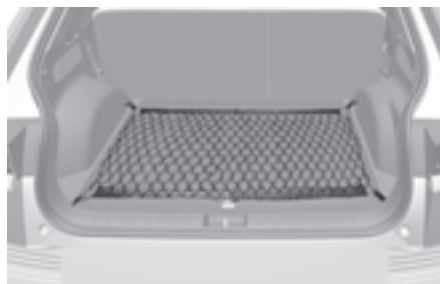
1. Lift the sunshade by the handle (1).
2. Hang the sunshade on both sides of the hook. If the sunshade is hung on one side of the hook, the sunshade may be wrinkled.

NOTICE

- Do not hang any other object except the rear side window sunshade on the hooks.
- If you pull the rear side window sunshade or apply force to return the sunshade to its original position after use, you may find the sunshade wrinkled or out of shape. To lower the sunshade, be sure to put the handle downward and slowly return the sunshade to its original position.
- Sunshades may not work properly if foreign objects (coins, toys, cookies, etc.) are stuck in the door. Be careful that the foreign objects do not get into the door.

Cargo net holder

 if equipped



To keep items from shifting in the cargo area, use the 4 holders located in the cargo area side trim to attach the cargo net.

Make sure the cargo net is securely attached to the holders in the cargo board.

If necessary, we recommend that you contact an authorized HYUNDAI dealer to obtain a cargo net.

WARNING

- Avoid eye injury. Do not overstretch the cargo net. Always keep your face and body out of the cargo net's recoil path. Do not use the cargo net when the strap has visible signs of wear or damage.
- Use the cargo net to keep only light items from shifting in the cargo area.

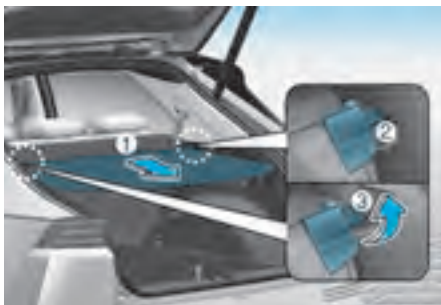
Cargo security screen

 if equipped



Use the cargo security screen to cover items stored in the cargo area.

Using the cargo security screen



1. Pull the cargo security screen towards the rear of the vehicle by the handle (1).
2. Insert the guide pin (2) into the guide (3).

Information

Pull out the cargo security screen with the handle in the center to prevent the guide pin from falling out of the guide.

When the cargo security screen is not in use:

1. Pull the cargo security screen rearward and down to release it from the guides.
2. The cargo security screen will automatically slide back in.

Information

The cargo security screen may not automatically slide back in if the cargo security screen is not fully pulled out. Pull the cargo screen out all the way and then slowly allow the screen to retract back in.

NOTICE

- Since the cargo security screen may be damaged or malformed, do not put luggage on it when it is used.
- The cargo security screen and rear seat may be damaged when the rear seat slides forward/rearward or when the rear seatback is reclined.
- Note that if you release the handle while pulling the luggage screen handle all the way, the screen may wind up quickly and be damaged.

WARNING

- Do not place objects on the cargo security screen. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.
- Never allow anyone to ride in the luggage compartment. It is designed for luggage only.
- Maintain the balance of the vehicle and locate the weight as forward as possible.

Removing the cargo security screen



1. Push one side of the cargo screen inward to compress the spring and release the screen from the vehicle.
2. While the spring is compressed, pull out the cargo security screen.

Infotainment system

NOTICE

- If you install an aftermarket HID head lamp, your vehicle's audio and electronic devices may not function properly.
- Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration.

USB Port



Press the USB port selection button while the vehicle is running. Press the upper portion of the button (1) to charge an electronic device. Press the lower portion of the button (2) to charge and listen to music with a media storage device. The USB port can be used after either indicator light turns on.

- You can use a USB cable to connect audio devices to the vehicle USB port.
- After connecting a media storage device such as a MP3 or USB to the USB port, you can listen to music through the vehicle's speakers or play it on the infotainment system.
- Small electronic devices can be charged.

i Information

- Some devices may not be charged through USB port.
- When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, disconnect the USB cable and use the portable audio device's power source.

NOTICE

- When connecting a Type-A USB or a memory device to a vehicle, use a genuine converting adapter (C to A type) specified for your vehicle. A commonly used adapter is not equipped with any measures to reduce noise, prevent overcurrent and maintain stability. Connecting an unspecified cable may damage the vehicle's USB port or the connected devices. We recommend that you contact an authorized HYUNDAI dealer for more information on accessories for HYUNDAI vehicles.
- The use of non-genuine parts may damage the USB port and infotainment system. Damage cannot be covered by your vehicle warranty.

Antenna



The shark fin antenna will receive AM, FM broadcast signals and transmit data.

Steering wheel remote controls



NOTICE

Do not operate multiple audio remote control buttons simultaneously.

VOLUME (1)

Push the lever up or down to adjust the volume.

SEEK/PRESET (2)

If the SEEK/PRESET switch is pushed up or down and held for 0.8 seconds or more, it functions in the following modes:

- RADIO mode
It functions as the AUTO SEEK select button. It seeks until you release the button.
- MEDIA mode
It functions as the FF/RW button.

If the SEEK/PRESET switch is pushed up or down, it functions in the following modes:

- RADIO mode
It functions as the PRESET STATION UP/DOWN button.
- MEDIA mode
It functions as the TRACK UP/DOWN button.

MODE (3)

Press the MODE button to toggle through the selected media sources.

If no media sources were selected yet, then the selection menu will be shown.

Once media sources are selected, the selection menu can be accessed through press and hold of the MODE button.

MUTE (4)

Press the VOLUME lever to mute or activate the sound.

Infotainment system



For more information, refer to the infotainment system manual.

Voice recognition



For more information, refer to the infotainment system manual.

Bluetooth® Wireless Technology



- (1) Call/Answer/Call end button (steering wheel)
- (2) Microphone

For more information, refer to the infotainment system manual.

CAUTION

To prevent driver distractions, minimize your use of these features while driving. Distraction may cause a collision, resulting in serious injury or death.

6. Driving your vehicle

Before driving	6-4
Before entering the vehicle.....	6-4
Before starting	6-4
Start/Stop button	6-5
Start/Stop button positions.....	6-7
Starting the vehicle.....	6-8
Turning off the vehicle.....	6-10
Remote start.....	6-11
Gear shifting.....	6-11
Gear shift operation	6-11
Cluster display messages.....	6-16
Good driving practices	6-17
Regenerative braking system	6-18
Using regenerative braking system.....	6-19
Regenerative braking system limitations.....	6-20
One pedal driving.....	6-20
Using i-PEDAL	6-22
Smart regeneration system	6-23
Smart regeneration system on/off	6-23
Smart regeneration system operating condition	6-24
Smart regeneration level settings.....	6-24
Pausing smart regeneration system.....	6-25
Front sensors (Front radar).....	6-25
System warning due to sensor problems.....	6-26
Smart regeneration system precautions.....	6-26
Braking system	6-30
Power-assist brakes.....	6-30
Disc brakes wear indicator	6-31
Electronic Parking Brake (EPB)	6-32
Auto Hold.....	6-36
Brake Disc Cleaning	6-38
Anti-lock Brake System (ABS)	6-39
Electronic Stability Control (ESC).....	6-40
Vehicle Stability Management (VSM).....	6-43
Hill-Start Assist Control (HAC)	6-45
Emergency Stop Signal (ESS).....	6-45

Multi-Collision Brake (MCB)	6-46
Brake Assistant System (BAS)	6-47
Good braking practices	6-47
Four Wheel Drive (4WD)	6-48
Emergency precautions	6-51
Drive mode integrated control system (2WD)	6-53
Drive mode	6-53
Drive mode characteristic	6-55
Drive mode integrated control system (4WD)	6-56
Drive mode	6-56
Drive modes characteristic	6-58
Drift mode	6-59
To activate DRIFT mode	6-59
DRIFT mode disabled	6-59
Active air flap	6-60
Malfunction	6-60
Active sound design (except Europe)	6-61
Special driving conditions	6-61
Hazardous driving conditions	6-61
Rocking the vehicle	6-62
Smooth cornering	6-62
Driving at night	6-62
Driving in the rain	6-63
Driving in flooded areas	6-63
Highway driving	6-64
Reducing the risk of a rollover	6-64
Winter driving	6-65
Snow or icy conditions	6-65
Winter precautions	6-70
Trailer towing	6-71
If you decide to pull a trailer	6-73
Trailer towing equipment	6-77
Driving with a trailer	6-78
Maintenance when towing a trailer	6-81
Vehicle weight	6-82

6. Driving your vehicle

Overloading	6-83

Before driving

Before entering the vehicle

- Be sure all windows, outside mirror(s), and outside lights are clean and unobstructed.
- Remove frost, snow, or ice.
- Visually check the tires for uneven wear and damage.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

Before starting

- Make sure the hood, the tailgate, and the doors are securely closed and locked.
- Adjust the position of the seat and steering wheel.
- Adjust the inside and outside rearview mirrors.
- Verify all the lights work.
- Fasten your seat belt. Check that all passengers have fastened their seat belts.
- Check the gauges and indicators in the instrument panel and the messages on the instrument display when the vehicle is in the ON position.
- Check that any items you are carrying are stored properly or fastened down securely.



WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH**, take the following precautions:

- **ALWAYS** wear your seat belt. All passengers must be properly belted whenever the vehicle is moving. For more information, refer to "Seat belts" section in chapter 3.
 - Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.
 - Stay focused on the task of driving. Driver distraction can cause accidents.
 - Leave plenty of space between you and the vehicle in front of you.
-

⚠ WARNING

NEVER drink or take drugs and drive.

Drinking or taking drugs and driving is dangerous and may result in an accident and **SERIOUS INJURY** or **DEATH**.

Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Just one drink can reduce your ability to respond to changing conditions and emergencies and your reaction time gets worse with each additional drink.

Driving while under the influence of drugs is as dangerous or more dangerous than driving under the influence of alcohol.

You are much more likely to have a serious accident if you drink or take drugs and drive. If you are drinking or taking drugs, don't drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a taxi.

Start/Stop button

Whenever the front door is opened, the Start/Stop button will illuminate and will go off for a few seconds after the door is closed.

⚠ WARNING

To turn the vehicle off in an emergency: Press and hold the Start/Stop button for more than 2 seconds OR Rapidly press and release the Start/Stop button three times (within 3 seconds).

If the vehicle is still moving, you can restart the vehicle without depressing the brake pedal by pressing the Start/Stop button with the gear in the N (Neutral) position.

WARNING

- NEVER press the Start/Stop button while the vehicle is in motion except in an emergency. This will result in the vehicle turning off and loss of power assist for the steering and brake systems. This may lead to loss of directional control and braking function, which could cause an accident.
 - Before leaving the driver's seat, always make sure the gear is in the P (Park) position, set the parking brake, press the Start/Stop button to the OFF position, and take the Smart Key with you. Unexpected vehicle movement may occur if these precautions are not followed.
 - NEVER reach through the steering wheel for the Start/Stop button or any other control while the vehicle is in motion. The presence of your hand or arm in this area may cause a loss of vehicle control resulting in an accident.
-

Start/Stop button positions

Button Position	Action	Notes
OFF	To turn off the vehicle, press the Start/Stop button with the vehicle shifted to P (Park). If the Start/Stop button is pressed with the vehicle shifted to D (Drive), R (Reverse) or N (Neutral), the gear automatically shifts to P (Park).	If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound.
ACC	Press the Start/Stop button when the button is in the OFF position without depressing the brake pedal. Some of the electrical accessories are usable. The steering wheel unlocks.	• If you leave the Start/Stop button in the ACC position for more than one hour, the battery power will turn off automatically to prevent the battery from discharging. • If the steering wheel doesn't unlock properly, the Start/Stop button will not work. Press the Start/Stop button while turning the steering wheel right and left to release.
ON	Press the Start/Stop button while it is in the ACC position without depressing the brake pedal. The warning lights can be checked before the vehicle is started.	Do not leave the Start/Stop button in the ON position when the vehicle is not running to prevent the battery from discharging.
START	To start the vehicle, depress the brake pedal and press the Start/ Stop button with the gear shifted to the P (Park) position.	If you press the Start/Stop button without depressing the brake pedal, the vehicle does not start and the Start/Stop button changes as follows: OFF > ACC > ON > OFF or ACC

i Information

To prevent vehicle battery discharge, the Start/Stop button changes to the OFF position when the Start/Stop button is in the ACC or ON position with the gear in P (Park) for a certain period of time. When the function operates, the tail lamps will turn off. To use the tail lamps again, turn the headlamp switch located on the steering column to the OFF and ON position again.

Starting the vehicle

WARNING

- Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flipflops, etc., may interfere with your ability to use the brake and accelerator pedals.
 - Do not start the vehicle with the accelerator pedal depressed.
The vehicle can move which can lead to an accident.
-

Information

- The vehicle will start by pressing the Start/Stop button, only when the smart key is in the vehicle.
 - Even if the smart key is in the vehicle, and when it is far away from the driver, the vehicle may not start.
 - When the Start/Stop button is in the ACC or ON position, if any door is open, the system checks for the smart key. When the smart key is not in the vehicle, the  indicator will blink and the warning "**Key not in vehicle**" will come on. When all doors are closed, the chime will also sound for a few seconds. Keep the smart key in the vehicle when in the ACC position or if the vehicle is in the ready mode (READY indicator ON).
-

NOTICE

The vehicle enters the ready mode (READY indicator on) if you get in the vehicle with a smart key or digital key (UWB-supported smartphone) while scheduled climate or remote climate control is operating.

The vehicle also enters the ready mode if you get in the vehicle and place the NFC digital key on the vehicle authentication pad (wireless charging pad), and then close the door or depress the brake pedal.

If a smart key or digital key (if equipped) is not detected in the vehicle after the door is closed or the brake pedal is depressed, a warning message appears.

When the vehicle is in the ready mode, be careful as the vehicle may move when shifting the gear from P (Park) to another gear position.

Starting the vehicle

1. Always carry the smart key with you.
2. Make sure the parking brake is applied.
3. Make sure the gear is in P (Park).
4. Depress the brake pedal.
5. Press the Start/Stop button. If the vehicle starts, the READY indicator will come on.

i Information

- Always start the vehicle with your foot on the brake pedal. Do not depress the accelerator while starting the vehicle. Do not race the motor while warming it up.
- If ambient temperature is low, the  indicator may remain illuminated longer than the normal amount of time.

NOTICE

To prevent damage to the vehicle:

- If the READY indicator turns off while you are in motion, do not attempt to shift the gear to the P (Park) position.
If traffic and road conditions permit, you may put the gear in N (Neutral) while the vehicle is still moving and press the Start/Stop button in an attempt to restart the vehicle.
- Do not push or tow your vehicle to start the vehicle.

NOTICE

To prevent damage to the vehicle:

Do not press the Start/Stop button for more than 10 seconds except when the stop lamp fuse is blown.

When the stop lamp fuse is blown, you cannot normally start the vehicle.

Replace the fuse with a new one. If you are not able to replace the fuse, you can start the vehicle by pressing and holding the Start/Stop button for 10 seconds with the Start/Stop button in the ACC position.

Pressing the brake pedal many times while READY indicator light is off will increase the possibility of discharging the 12 V battery.

For your safety always depress the brake pedal before starting the vehicle.

i Information

Virtual Engine Sound System (VESS)

VESS generates virtual engine sound to make pedestrians to aware. VESS operates when the vehicle can be driven. When the vehicle in P (parking) gear status, VESS doesn't work.

CAUTION

- Because the vehicle doesn't make the engine sound, pay attention to the surrounding environment and drive carefully.
- After parking or waiting for a traffic light, please check around (children, obstacle, etc.) before departure.
- When reversing, check directly behind you before driving. Pedestrians may not be able to recognize vehicle sounds.

Emergency starting



If the smart key battery is weak or the smart key does not work correctly, you can start the vehicle by pressing the Start/Stop button with the smart key in the direction of the picture above.

Turning off the vehicle

1. Stop the vehicle and depress the brake pedal fully.
2. Shift to P (Park).
3. Press the Start/Stop button to the OFF position and apply the parking brake.
4. Make sure the **READY** indicator light is off in the instrument cluster.

CAUTION

If the **READY** indicator light on the instrument cluster is still on, the vehicle is not turned off and can move when the gear is in any position except P (Park).

Remote start



You can start the vehicle using the Remote Start button of the smart key.

To start the vehicle remotely:

1. Press the door lock button (1) within 10 m (32 ft.) from the vehicle.
2. Press the remote start (2) button for over 2 seconds within 4 seconds after locking the doors.
3. To turn off the remote start function, press the remote start (2) button once.
 - The remote start (2) button may not operate if the smart key is not within 10 m (32 ft.).
 - The vehicle will not remotely start if the hood or tailgate is opened.
 - The vehicle must be in P (Park) for the remote start function to start.
 - The vehicle displays "**Smart Key must be present to keep the vehicle running**" if you get in the vehicle without a registered smart key.
 - The vehicle turns off if you do not get in the vehicle within 10 minutes after remotely starting the vehicle.

Gear shifting



[A] Rotary gear shift dial
[B] P button

Gear shift operation

To change the gear, depress the brake pedal and rotate the rotary gear shift dial.

WARNING

To reduce the risk of serious injury or death:

- ALWAYS check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).
- Before leaving the driver's seat, always make sure the vehicle is shifted to the P (Park) position, then apply the parking brake, then press the Start/Stop button to the OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.

Rotary shifter/Rotary gear shift dial

P (Park)



Always come to a complete stop before shifting into P (Park).

To shift the gear to P (Park), press the P button while depressing the brake pedal.

If you turn the vehicle off in R (Reverse), N (Neutral) or D (Drive), the gear will automatically shift to P (Park).

⚠ WARNING

- Shifting into P (Park) while the vehicle is in motion may cause you to lose control of the vehicle.
- When parking on an incline, shift the gear to P (Park), apply the parking brake, and turn the wheels toward the curb to prevent the vehicle from rolling downhill.
- Do not use the P (Park) position instead of the parking brake.

i Information

For vehicles equipped with the Electronic Parking Brake (EPB), EPB applies automatically when the gear is shifted to P (Park).

R (Reverse)



Use this position to drive the vehicle backward.

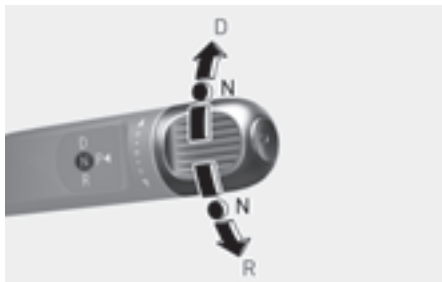
To shift the gear to R (Reverse), rotate the rotary gear shift dial to R (Reverse) while depressing the brake pedal.

However, if the vehicle is moving, the gear may not automatically shift to P (Park) to prevent reducer damage.

The direction of the rotary gear shift dial is the same as that of the wheel.

NOTICE

- When the vehicle is stopped in R (Reverse) or D (Drive), if the driver's door is opened, the gear shifts to P (Park) automatically.
If the vehicle is moving in R (Reverse) or D (Drive) and the driver's door is opened and the driver's seat belt is unfastened, the gear may not shift to P (Park) automatically to prevent reducer damage.
 - Always come to a complete stop before shifting into or out of R (Reverse) to prevent damaging the reduction gear.
-

N (Neutral)

To shift the gear to N (Neutral), rotate the rotary gear shift dial to N (Neutral) while depressing the brake pedal.

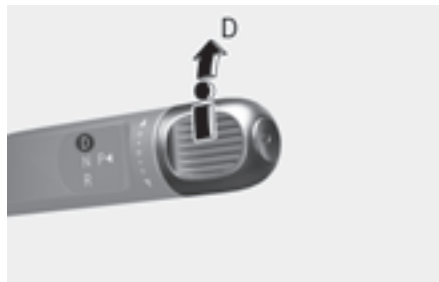
Always depress the brake pedal when you are shifting from N (Neutral) to another gear.

If you turn the vehicle off in N (Neutral), the gear will automatically shift to P (Park).

However, if you need to stay in N (Neutral) with the vehicle off, refer to "To stay in N (Neutral) when vehicle is OFF" in the following description.

To rotate the rotary gear shift dial to N (Neutral), rotate the rotary gear shift dial once clockwise or counterclockwise.

If the current gear position is in D (Drive), rotate the rotary gear shift dial counterclockwise. When the gear position is in R (Reverse), rotate the rotary gear shift dial clockwise.

D (Drive)

To shift the gear to D (Drive), rotate the rotary gear shift dial to D (Drive) while depressing the brake pedal.

The PE system (Power Electric system) automatically activates the regenerative braking system according to the road conditions.

i Information

PE system refers to motor + inverter + reducer.

NOTICE

- When the vehicle is stopped in R (Reverse) or D (Drive), if the driver's door is opened, the gear shifts to P (Park) automatically.

If the vehicle is moving in R (Reverse) or D (Drive) and the driver's door is opened and the driver's seat belt is unfastened, the gear may not shift to P (Park) automatically to prevent reducer damage.

- Always come to a complete stop before shifting into D (Drive) to prevent reducer damage.

CAUTION

When you start after stopping on a steep incline, even if the gear is in D (Drive), if you do not depress the accelerator or brake pedal, the vehicle may roll backwards, which can cause an accident.

To stay in N (Neutral) when vehicle is OFF



If you want to stay in N (Neutral) after the vehicle is in the ACC state, or use an automatic car wash machine, do the following.

1. Turn off Auto Hold and release Electronic Parking Brake when the vehicle is running.
2. Rotate the shift to N (neutral) while depressing the brake pedal.

3. When you take your foot off the brake pedal, the message '**Press and hold the OK button on the steering wheel to stay in Neutral**' will appear on the cluster display.
4. Press and hold the OK button on the steering wheel for more than 1 second.
5. When the message '**Vehicle will stay in (N). Change gear to cancel**' (or '**N will stay engaged when the vehicle is Off**') will appear on the cluster display, press the Start/Stop button while depressing the brake pedal.

However, if you open the driver's door within 3 minutes in the ACC state, the gear will automatically shift to P (Park) and the Start/Stop button will change to the OFF position.

NOTICE

- With the gear in N (Neutral) the Start/Stop button will be in the ACC position. Note that the doors cannot be locked in the ACC position or the battery (12 V) may discharge if left in the ACC position for a long period.
- Before entering an automatic car wash, release the Electronic Parking Brake (EPB) manually. If EPB is applied, it may damage the vehicle or automatic car wash.

i Information

When the Electronic Parking Brake (EPB) is applied, press the EPB switch while depressing the brake pedal.

The Electronic Parking Brake (EPB) must be released manually because EPB does not release automatically even though the gear is shifted to N (Neutral).

Automatic gear shift to P (Park)

The gear is shifted to P (Park) automatically for safety reasons under the following conditions:

- When the vehicle is turned off with the gear in R (Reverse), D (Drive) or N (Neutral).
- When the driver's door is open with the vehicle running, the gear in R (Reverse), D (Drive) or N (Neutral), and the vehicle at a standstill.
- When the driver's door is open with the gear in N (Neutral) and the vehicle is off.

In situations the gear must be in P (Park), always check if the gear is shifted to P (Park) by checking the instrument cluster.

Shift-lock system

For your safety, your vehicle has a shift-lock system which prevents shifting the gear from P (Park) or N (Neutral) into R (Reverse) or D (Drive) unless the brake pedal is depressed.

To shift from P (Park) or N (Neutral) into R (Reverse) or D (Drive), from R (Reverse) into D (Drive) or from D (Drive) into R (Reverse):

1. Depress and hold the brake pedal.
2. Start the vehicle.
3. Shift the gear in R (Reverse) or D (Drive).

i Information

The gear cannot be shifted while the charging cable is connected.

When the battery (12 V) is discharged

You cannot shift gears, when the battery is discharged.

Jump start your vehicle (refer to "Jump starting (12 V battery)" in chapter 8) or we recommend that you contact an authorized HYUNDAI dealer.

Parking

Always come to a complete stop and continue to depress the brake pedal. Shift the gear to P (Park), apply the parking brake, and press the Start/Stop button to the OFF position. Take the Key with you when leaving the vehicle.

Cluster display messages

Press brake pedal to change gear

This message is displayed when the brake pedal is not depressed while shifting the gear.

Depress the brake pedal and then shift the gear.

Shift to P after stopping

This message is displayed when the gear is shifted to P (Park) while the vehicle is moving.

Stop the vehicle before shifting to P (Park).

This gear is already selected

This message is displayed when the currently selected shift gear is selected again.

This message is displayed when the shift gear does not properly operate in the P (Park) position.

We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Check P button

This message is displayed when there is a problem with the P (Park) button.

If this message is displayed when the button is not pressed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Shifter system error

This message is displayed when there is a malfunction with the rotary gear shift dial.

We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Check rotary gear shift dial

This message is displayed when there is a malfunction with the rotary gear shift dial.

We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Rotary gear shift dial stuck

This message is displayed when the rotary gear shift dial does not return to its normal position after rotating it.

We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

PARK button error! Engage parking brake when parking vehicle

This message is displayed when the P (Park) button does not operate properly.

We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Good driving practices

- Never shift the gear from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never shift the gear into P (Park) when the vehicle is in motion.
Be sure the vehicle is completely stopped before you attempt to shift into R (Reverse) or D (Drive).
- Do not shift the gear to N (Neutral) when driving. Doing so may increase the risk of an accident.
Also, shifting the gear back to D (Drive) while the vehicle is moving may severely damage the reducer.
- When driving uphill or downhill, always shift to D (Drive) for driving forward or shift to R (Reverse) for driving rearwards. After selecting D (Drive) or R (Reverse), check the gear position indicated on the instrument cluster before driving. If the vehicle moves in the opposite direction of the selected gear, the vehicle may turn off and a serious accident might occur due to degraded brake performance.
- Do not drive with your foot resting on the brake pedal. Even light, but consistent pedal pressure can result in the brakes overheating, brake wear and possibly even brake failure.
- Always apply the parking brake when leaving the vehicle. Do not depend on placing the shift gear in P (Park) to keep the vehicle from moving.
- Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and may cause loss of vehicle control resulting in an accident.
- Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator.

WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH**:

- **ALWAYS** wear your seat belt. In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
 - Avoid high speeds when cornering or turning.
 - Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
 - The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
 - Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
 - In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
 - We recommend that you follow all posted speed limits.
-

Regenerative braking system

Regenerative braking system operates the paddle shifter to control the regenerative braking intensity of the vehicle. It improves the energy efficiency of the vehicle and helps the driver to have a better driving experience.

Information

The regenerative braking system uses the electric motor to engage the brake. The electric motor converts the kinetic energy generated from decelerating the vehicle to electricity and charges the high voltage battery.

Using regenerative braking system

Operating paddle shifter

Operate the paddle shifter as shown below to use the regenerative braking system.



- Pull the left paddle shift (+D) once to raise the regenerative braking intensity level by 1. It increases decelerating intensity.
- Pull the right paddle shift (-D) once to lower the regenerative braking intensity level by 1. It decreases decelerating intensity.
- Pull and hold the left paddle shift (+D) for over 0.5 seconds to keep raising the regenerative braking intensity level. Keeping hold of the paddle shift brings the vehicle to stop. (For more information, refer to the "One pedal driving" section in this chapter.)
- (While the smart regeneration system is turned on) Pull and hold the right paddle (-D) shift for over 1 second to turn off the smart regeneration system. (For more information, refer to the "Smart regeneration system" section in this chapter.)

Checking the amount of regenerative braking



The selected regenerative braking level is displayed on the instrument cluster. When the vehicle is turned off and on again after the regenerative braking level is lowered to 0, the braking level changes to 1.

Regenerative braking system limitations

Regenerative braking intensity cannot be changed using the paddle shifter in the following situations:

- When the both paddle shifters are pulled at the same time.
- When the vehicle is decelerating by depressing the brake pedal.
- When Smart Cruise Control is activated.
- When regenerative braking is continuously operated with the battery fully charged.
- When the SNOW mode is activated.

Initial setting of the regenerative braking level and adjustable range vary according to the selected Drive mode.

Drive mode	Adjustable Range
SNOW	0 to 1
ECO	0 to 3
NORMAL	0 to 3
SPORT	0 to 3

For more details, refer to "Drive mode integrated control system (2WD)" in this chapter.

One pedal driving

One pedal driving operates the paddle shifter while coasting to control the intensity of regenerative braking. It assists the driver to stop the vehicle without depressing the brake pedal.

i Information

Coasting is the process of driving a vehicle without the brake pedal and the accelerator depressed. Coasting uses the inertia of driving energy instead of the vehicle power.

Using one pedal driving

Pull and hold the left paddle shifter () for over 0.5 seconds while coasting to enable the one pedal driving mode.

- Release the paddle shifter when the vehicle speed is above 3 km/h to return to the previously set regenerative braking level.
- If the vehicle speed is below 3 km/h, the vehicle will keep engaging the brake although the driver releases the paddle shifter.
- Releasing the paddle shifter after the vehicle comes to a stop maintains the vehicle stationary.

CAUTION

- The vehicle may not come to a stop although the one pedal driving function is active, depending on the condition of the vehicle and the road. Check the surroundings and depress the brake pedal to decelerate.
- If the driver depresses the accelerator while pulling and holding the left paddle shifter (+D) to increase the braking level, one pedal driving function will work like i-PEDAL function. In this case, the vehicle speed is no longer controllable through the paddle shifter.

One pedal driving limitations

In the following conditions, the vehicle may not come to a stop although the one pedal driving function is active. Depress the brake pedal to stop the vehicle.

- When driving on a slope, or when the vehicle is repeatedly driven and stopped.
- When the vehicle is driving through the end of the slope.
- When driving on a slippery surface such as an icy, rainy, or muddy road.
- When the wheels are not properly aligned.
- When a wheel slip or wheel spin occurs.
- When the weight on board is too heavy.
- When the vehicle is tilted to one side.
- When the tire is worn out too much.

Automatic engagement of EPB

Use one pedal driving function to bring the vehicle to a stop and automatically engage the Electronic Parking Brake (EPB).

After the vehicle is stopped, EPB is automatically engaged when any of the following conditions are satisfied.

- The driver's seatbelt is unfastened and the driver's door is open.
- The gear shifts to N (Neutral).
- The hood is open.
- The tailgate is open.
- 5 minutes have passed after the vehicle has stopped.
- The system operation is limited due to other reasons.

Using i-PEDAL

i-PEDAL assists the driver to accelerate, decelerate, and stop the vehicle with only the accelerator pedal.

Turning on/off the i-PEDAL

- Turning on i-PEDAL

Pull the left paddle shifter (⬅️) once when the regenerative braking level is at 3. i-PEDAL is turned on and the instrument cluster displays the "i-PEDAL". i-PEDAL is not available while the smart regeneration system is ON. Turn off the smart regeneration system first before using i-PEDAL.

- Turning off i-PEDAL

Pull the right paddle shifter (➡️) once while the function is ON. Otherwise, shift the gear to R (reverse) then to D (drive) while the function is ON.

i-PEDAL is disabled and regenerative braking level is set to 3.

CAUTION

Depending on the vehicle and road condition, the vehicle may not come to a stop although the i-PEDAL function is active. Check for the surroundings and depress the brake pedal to control the vehicle speed. Do not use i-PEDAL on slippery roads.

i-PEDAL limitations

In the following conditions, the vehicle may not come to a stop although the i-PEDAL is properly activated. Depress the brake to stop the vehicle.

- When driving on a slope, or when the vehicle is repeatedly driven and stopped
- When the vehicle is driving through the end of the slope
- When driving on a slippery surface such as an icy, rainy, or muddy road
- When the wheels are not properly aligned
- When a wheel slip or wheel spin occurs
- When the weight on board is too heavy
- When the vehicle is tilted to the side
- When the tire is worn out too much

Smart regeneration system

The smart regeneration system recognizes vehicle-to-vehicle distance, road gradient, and speed cameras and controls the regenerative braking level while coasting. It reduces unnecessary depressing of pedals to improve energy efficiency and driver convenience.

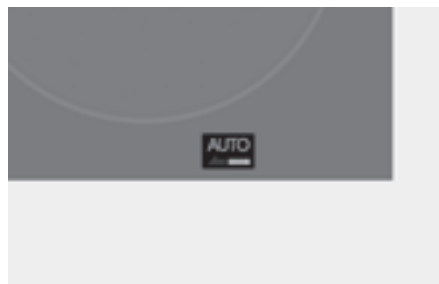
i Information

- Coasting is the process of driving a vehicle without the brake pedal and the accelerator pedal depressed. Coasting uses the inertia of driving energy instead of the vehicle power.
- The regenerative braking system uses the electric motor to engage the brake. The electric motor converts the kinetic energy generated from decelerating the vehicle to electricity and charges the high voltage battery.

Smart regeneration system on/off

Operate the paddle shifter as shown below to use the smart regeneration system.

- **Turning on the smart regeneration system:** While the READY indicator is ON, shift the gear to D (drive), and pull and hold the right paddle shifter (➡) for over a second.



The smart regeneration system is ON and the regenerative braking level is displayed as 'AUTO'.

- **Turning off the smart regeneration system:** While the smart regeneration system is ON, pull and hold the right paddle shifter (➡) for over a second. The instrument cluster will display the regenerative braking level instead of 'AUTO', and the smart regeneration system turns off.
- **Using one pedal driving:** While the smart regeneration system is ON, pull and hold the left paddle shifter (⬅) for over 0.5 seconds (For more information, refer to the "One pedal driving" section in this chapter.)

i-PEDAL is not available while the smart regeneration system is ON. Turn off the smart regeneration system first before using i-PEDAL.

Smart regeneration system operating condition

When the regenerative braking level is displayed as 'AUTO' and the vehicle speed is above 10 km/h (6 mph), the system automatically controls the regenerative braking level under the following conditions:

- The road gradient changes.
- Distance from the vehicle ahead reduces or increases.
- Speed of the vehicle ahead reduces or increases.

CAUTION

- When the Forward Safety warning light is ON, the smart regeneration system does not work properly. Depress the brake pedal to decelerate.
- The function that adjusts the regenerative braking intensity depending on the road gradient is only effective when the regenerative braking level is 0. Braking intensity does not significantly change depending on the road gradient if the regenerative braking level is 1 or above.

Smart regeneration level settings



The instrument cluster displays 'AUTO' (1) when the smart regeneration system is ON. Depending on the conditions, the system adjusts the regenerative braking level (2). The sky blue indicator light (3) illuminates when the vehicle recognizes a vehicle.

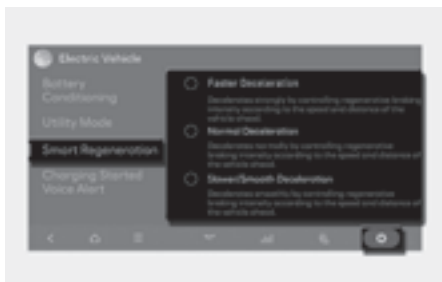
Smart regeneration default setting

The default braking level of the smart regeneration system can be changed. Set the default braking level to the lowest and let the system adjust the braking intensity automatically.

To change the default level of the smart regeneration system, pull the right paddle shifter () once while the system is ON.

Smart regeneration intensity setting

Regenerative braking intensity of the smart regeneration system can be adjusted to match the driver's preference. Adjust the braking intensity to make the decelerating faster or slower.



To adjust the regenerative braking level of the smart regeneration system, select **Electric Vehicle** > **Smart Regeneration** in the infotainment system.

Pausing smart regeneration system

The smart regeneration system is temporarily limited/reduced in the following conditions. While the system is turned off, the driver must keep eyes on the surroundings and depress the brake pedal to decelerate.

- The gear is shifted to N (Neutral), R(Reverse) or P (Park).
- Smart Cruise Control is ON.
- ESC (Electronic Stability Control) is operating.
- ABS is operating.

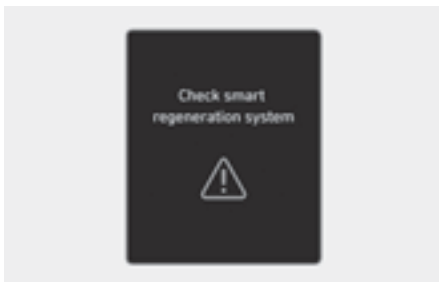
Front sensors (Front radar)



[A] Front radar

The front radar recognizes the distance from the vehicle ahead to control the regenerative braking intensity. When the front radar is covered with snow, rain, or other foreign substances, the performance of the sensors may reduce, and the smart regeneration system may turn off. Always keep the sensors clean.

System warning due to sensor problems



If the smart regeneration system is turned off due to the front radar being covered with foreign substances or due to other causes, the "**Check smart regeneration system**" warning message appears. Also the regenerative braking level is displayed instead of 'AUTO'.

The system operates normally when such foreign material is removed, and the system is turned on by pulling and holding the right paddle shifter (↵) for over a second.

If the smart regeneration system does not operate normally after the front radar has been uncovered or unblocked, we recommend that you visit an authorized HYUNDAI dealer for inspection.

Smart regeneration system precautions

- Always monitor the distance to vehicles ahead on the road. The smart regeneration system is not a substitute for safe driving practices, but a supplemental function only.
- Always maintain a safe distance from the vehicles ahead and adjust your vehicle speed to the road conditions. The smart regeneration system may not recognize unexpected and sudden situations or complex driving situations.

General precautions

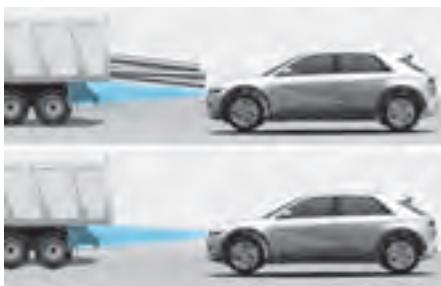
- Always maintain a safety distance from the vehicle ahead, and adjust your vehicle speed depending on the road conditions.
- Always prepare for unexpected situations and depress the brake pedal to decelerate when necessary. The smart regeneration system cannot react to pedestrians, vehicles making a sudden stop, and vehicles coming from the opposite lane.
- If the vehicle ahead frequently changes the lane, keep your eyes forward to be prepared for hazardous situations. In this case, the smart regeneration system may respond late and may inappropriately respond to vehicle movements from the side lanes.
- The driver must depress the brake pedal when stopping the vehicle.
- Depress the brake pedal to decelerate in the following conditions when:
 - The front part of the vehicle is lifted up because of the cargo loaded on the rear part of the vehicle.
 - You are operating the steering wheel.
 - You are not driving in the center of the lane.
 - You are driving on a road that is too narrow or too curved.
- The smart regeneration system may be temporarily turn off when exposed to strong electromagnetic waves.

Front sensor precautions

- Make sure that no physical impact is applied to the sensor or its surroundings. If the sensor is dislocated due to the shock, the system may not work properly and the instrument cluster may not display any warnings. If the sensor is exposed to physical impacts, we recommend that you visit an authorized HYUNDAI dealer for inspection.
- The sensors and its surroundings, the sensor covers, and the vehicle grille should always be kept clean.
- Do not attach any accessories such as molding or stickers on the sensor and its detection range, or change the vehicle grille. It may affect sensor performance.
- Always use genuine parts for the sensor cover, and do not paint it.
- Use soft fabric to prevent damage to the sensor cover when washing the car.
- Do not spray the sensor or the surrounding with high pressure water.

Precautions for vehicle recognition

- The front sensors may suddenly recognize the foregoing vehicle when the smart regeneration system reacts slowly, or the vehicle is going through the end of a slope or curve. In this case, the regenerative braking intensity is increased and the vehicle may slow down.



- The front sensors may be unable to recognize the vehicle ahead in the following situations even if it is in the same lane.
 - Narrow vehicles such as motor cycles or bicycles
 - Vehicles offset to one side
 - Slow-moving vehicles or sudden decelerating vehicles
 - Vehicles with small rear profile such as trailers with no loads
- When the vehicle in front of the foregoing vehicle is at a stop and the foregoing vehicle changes the lane, the front sensors may be unable to recognize the stopped vehicle.

Precautions on the curves



- The front sensors may be unable to recognize the foregoing vehicle if you are coasting on a curve. The regenerative braking intensity may automatically be lowered, which may accelerate the vehicle.
- On a curved road, the front sensors may recognize the vehicles on the other lane as the foregoing vehicle of the same lane. It may increase the regenerative braking intensity and the vehicle may decelerate. Check the surroundings and depress the accelerator to prevent unnecessary reduce of speed.
- If the front sensors suddenly recognize the vehicle ahead, regenerative braking intensity may rise and the vehicle may decelerate.

Precautions on the slope



- When the vehicle is coasting through the end of a slope or where the gradient is changing, the front sensors may be unable to recognize, or may suddenly recognize the vehicle ahead. It may adjust the regenerative braking intensity and change the vehicle speed.
- When driving up or down the slope, check for the surroundings and depress the brake pedal to decelerate.

Precautions for shifting lanes



[A] Your vehicle
[B] Lane changing vehicle

- If a vehicle on the next lane is moving into the front of your vehicle, the front sensors can only recognize the vehicle when it is completely inside the detection range.
- The front sensors may recognize the vehicles late that intervene suddenly.

Braking system

Power-assist brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

In the event of a vehicle power failure, the power assist for the brakes will not work. You can still stop your vehicle, but it will require greater force and increased pedal travel than normal. The stopping distance, however, will be longer than with power brakes.

Information

- When the brake pedal is depressed under certain driving conditions or weather conditions, you may temporarily hear a noise. This is normal and does not indicate a problem with your brakes.
 - If deicing chemicals get stuck on the brakes, abnormal wear and noise may occur on the brake discs and pads. Remove the deicing chemicals from the brake discs and pads while applying the brakes in a safe traffic condition.
-

WARNING

Take the following precautions:

- Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances. So increase the regeneration braking level with the left paddle shift lever to decrease the speed.
 - When descending down a long or steep hill, use the paddle shifter to increase the regeneration braking level in order to decrease your speed without using the brake pedal excessively. Applying the brakes continuously will cause the brakes to overheat and could result in a temporary loss of braking performance.
 - Wet brakes may impair the vehicle's ability to safely decelerate. Because wet brakes increase braking distance and cause noise troubles, select 0 step of the regenerative braking system and depress the brake pedal around 10 times, with keeping the safe distance from other vehicles, lightly in order to dry the braking system. Such procedure may decrease the driving distance by restraining the regenerative braking system, which is not a system malfunction. Inspect the braking system after car wash or driving over wet road conditions.
-

NOTICE

- Do not continue depressing the brake pedal if the "READY" indicator is OFF. The battery may be discharged.
- Noise and vibration generated during braking is normal.
- Under normal operation, electric brake pump noise and motor vibration may occur temporarily in below cases.
 - When the pedal is depressed suddenly.
 - When the pedal is repeatedly depressed in short intervals.
 - When the ABS function is activated while braking.

Disc brakes wear indicator

When your brake pads are worn and new pads are required, you will hear a high pitched warning sound from your front or rear brakes. You may hear this sound come and go or it may occur whenever you depress the brake pedal.

NOTICE

To avoid costly brake repairs, do not continue to drive with worn brake pads.

i Information

Always replace brake pads as complete front or rear axle sets.

**WARNING**

Frequent braking may deform components and worn the disc brake causing vibration when braking. Observe the speed limit to prevent brake damage from excessive braking.

Brake wear, noise, vibration from excessive braking or deformation of the brakes caused by repeatedly braking in high speed, racing on tracks, etc. can be excluded from warranty coverage.

Electronic Parking Brake (EPB)

Applying the parking brake

To apply EPB (Electronic Parking Brake):

1. Depress and hold the brake pedal.
2. Pull up the EPB switch.



Make sure the Parking Brake warning light comes on.

EPB (Electronic Parking Brake) may be automatically applied when:

- Requested by other systems
- The driver turns the vehicle off while Auto Hold is operating.
- The gear is shifted to P (Park)

Emergency braking

If there is a problem with the brake pedal while driving, emergency braking is possible by pulling up and holding the EPB switch. Braking is possible only while you are holding the EPB switch. However, braking distance will be longer than normal.

WARNING

To reduce the risk of serious injury or death, do not operate the EPB while the vehicle is moving except in an emergency situation. It may damage the brake system and cause a collision.

***i* Information**

During emergency braking, the Parking Brake warning light will illuminate to indicate that the system is operating.

NOTICE

If you continuously notice a noise or burning smell when the EPB is used for emergency braking, we recommend that you have the system checked by an authorized HYUNDAI dealer.

Releasing the parking brake

To release EPB (Electronic Parking Brake):

1. Press the Start/Stop button to the ON or START position.
2. Press the EPB switch while depressing the brake pedal.



Make sure the Parking Brake warning light goes off.

To release EPB (Electronic Parking Brake) automatically:

- With the vehicle running, depress the brake pedal and shift out of P (Park) or N (Neutral) to R (Reverse) or D (Drive). Make sure the doors, hood, and tailgate are closed and the seat belt is fastened.

i Information

- For the Middle East, EPB is released regardless of seat belt fastening.
- For your safety, you can engage EPB even though the Vehicle Stop/Start button is in the OFF position (only if battery power is available), but you cannot release it.
- For your safety, depress the brake pedal and release the parking brake manually with the EPB switch when you drive downhill or when backing up the vehicle.

NOTICE

- If the Parking Brake warning light is still on even though the EPB has been released, we recommend that you have the system checked by an authorized HYUNDAI dealer.
- Do not drive your vehicle with EPB applied. It may cause excessive brake pad and brake rotor wear.

Warning messages

To release EPB, close the doors, hood and tailgate and fasten the seatbelt

If the driver's seat belt is unfastened, or the hood, tailgate, doors are open, and you try to drive with EPB applied, a warning sounds and a message appears.

WARNING

- Always come to a complete stop and continue to depress the brake pedal before parking, shift the gear into P (Park), pull up the EPB switch, and press the Start/Stop button to the OFF position. Take the key with you when leaving the vehicle.
- NEVER allow anyone who is unfamiliar with the vehicle to touch the EPB switch.
- Only release EPB when you are seated inside the vehicle with your foot firmly on the brake pedal.

NOTICE

Driving with the parking brake on may overheat the braking system and cause premature wear or damage to brake parts.

CAUTION

In winter, the Electronic Parking Brake (EPB) related device may freeze and cannot be released. Do not use the Electronic Parking Brake (EPB) but park on a flat surface with the gear in P (Park). Use wheel chocks under the wheels if necessary.

If the Electronic Parking Brake (EPB) applies automatically when the gear is shifted to P (Park), turn off Auto Hold, and press the Electronic Parking Brake (EPB) switch to release the parking brake.

Information

- A clicking sound may be heard while operating or releasing the EPB. These conditions are normal and indicate that EPB is functioning properly.
 - When leaving your keys with a parking attendant or assistant, make sure to inform him/her how to operate EPB.
-

EPB malfunction

Electronic Parking Brake (EPB) warning light illuminates if the Start/Stop button is in the ON position and goes off in about 3 seconds if the system is operating normally.

If the EPB warning light remains on, comes on while driving, or does not come on when the Start/Stop button is ON, the EPB may have malfunctioned.

If this occurs, we recommend that you have the system checked by an authorized HYUNDAI dealer.

The EPB warning light may illuminate when the ESC indicator comes on to indicate that ESC is not working properly, but it does not indicate a malfunction of EPB.

NOTICE

- If the Parking Brake warning light does not illuminate or blinks even though the EPB switch was pulled up, EPB may not be applied.
- If the Parking Brake warning light blinks when the EPB warning light is on, press the switch, and then pull it up. Repeat this one more time. If the EPB warning does not go off, we recommend that you have the system checked by an authorized HYUNDAI dealer.

Parking brake warning light

This light illuminates when the Parking Brake is applied with the Start/Stop button in the START or ON position.

Before driving, make sure the Parking Brake is released and the Parking Brake warning light is OFF.

If the Parking Brake warning light remains on after the parking brake is released while the motor is running, there may be a malfunction in the brake system.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution while operating the vehicle and only continue to drive the vehicle until you can reach a safe location.

When the EPB (Electronic Parking Brake) does not release

If the EPB does not release normally, we recommend that you contact an authorized HYUNDAI dealer by loading the vehicle on a flatbed tow truck and have the system checked.

Auto Hold

Auto Hold maintains the vehicle in a standstill even though the brake pedal is not depressed after the driver brings the vehicle to a complete stop by depressing the brake pedal.

i Information

When the vehicle is restarted, the last setting for Auto Hold is applied.

To apply:



[A] White

1. With the driver's door and hood closed, depress the brake pedal and then press the **AUTO HOLD** switch. The white **AUTO HOLD** indicator will come on and the system is in standby.
2. When you stop the vehicle completely by depressing the brake pedal, Auto Hold maintains the brake pressure to hold the vehicle stationary. The indicator changes from white to green.
 - The vehicle will remain stationary even if you release the brake pedal.
 - If EPB is applied, Auto Hold will be released.

To release:

If you depress the accelerator pedal with the gear in D (Drive) or R (Reverse), the Auto Hold is released automatically and the vehicle starts to move. The **AUTO HOLD** indicator changes from green to white.

WARNING

Always look around your vehicle before depressing the accelerator pedal to release Auto Hold.

To cancel:



[A] Light off

1. Depress and hold the brake pedal.
 2. Press the **AUTO HOLD** switch.
- The **AUTO HOLD** indicator turns off.

WARNING

To prevent unintended vehicle movement, always depress your foot on the brake pedal to cancel the Auto Hold before you:

- Drive downhill.
- Drive the vehicle in R (Reverse).
- Park the vehicle.

Information

The Auto Hold does not operate when:

- The gear is in P (Park).
- EPB is applied.
- The Auto Hold automatically switches to EPB when:
 - The driver's door or hood is opened.
 - The tailgate is opened.
 - The vehicle is in a standstill for more than 10 minutes.
 - The vehicle is standing on a steep slope.
 - The vehicle moves several times.

The Parking Brake warning light comes on, the **AUTO HOLD** indicator changes from green to white, and a warning sounds and a message appears to inform you that EPB has been automatically engaged. Before driving, depress the brake pedal, check the surrounding area, and release the parking brake manually with the EPB switch.

NOTICE

If the **AUTO HOLD** indicator changes to yellow, or the driver's door, hood, or tailgate open detection system malfunctions, Auto Hold does not work properly. We recommend that you contact an authorized HYUNDAI dealer.

NOTICE

If there is a malfunction with the driver's door or hood open detection system, Auto Hold may not work properly.

We recommend that you contact an authorized HYUNDAI dealer.

Warning messages

Parking brake automatically engaged

When EPB is applied while Auto Hold is activated, a warning sounds and a message appears.

Turning off AUTO HOLD. Press brake pedal

When the conversion from Auto Hold to EPB is not working properly, a warning sounds and a message appears.



CAUTION

If warning message is displayed, the Auto Hold and EPB may not operate normally. For your safety, depress the brake pedal.

Press brake pedal to deactivate AUTO HOLD

If you did not apply the brake pedal when you release Auto Hold by pressing the AUTO HOLD switch, a warning sounds and a message appears.

Press the AUTO HOLD switch while depressing the brake pedal.

Brake Disc Cleaning

Use the Brake Disc Cleaning function if noise is generated when depressing the brake while driving or if the brake disc gets rusty. It helps reduce the noise and rust. Regenerative braking is restrained while Brake Disc Cleaning is operated, which may lower the electric energy efficiency.

Press and hold the AUTO HOLD button for over 3 seconds.

- Brake Disc Cleaning starts operating when the message "**Brake Disc Cleaning**" is displayed on the instrument cluster.
- Regenerative braking is restrained while the brake is depressed about 10 times while driving (it may differ depending on driving conditions). It helps reduce the noise and rust.
- Brake Disc Cleaning function will turn off automatically when the operation is completed. It can also be turned off before operation is completed by turning off the vehicle or pressing the AUTO HOLD button for over 3 seconds.

Anti-lock Brake System (ABS)

WARNING

Anti-Lock Braking System (ABS) or Electronic Stability Control (ESC) system will not prevent accidents due to improper or dangerous driving maneuvers. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead of you. Vehicle speeds should always be reduced during extreme road conditions.

The braking distance for vehicles equipped with ABS or ESC may be longer than for those without these systems in the following road conditions.

Drive your vehicle at reduced speeds during the following conditions:

- Rough, gravel or snow-covered roads.
- On roads where the road surface is pitted or has different surface height.
- Tire chains are installed on your vehicle.

Never test the safety features of an ABS or ESC equipped vehicle by high speed driving or cornering. It may cause a collision and endanger the safety of yourself or others.

ABS is an electronic braking system that helps prevent a braking skid. ABS allows the driver to steer and brake at the same time.

Using ABS

To obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes. Depress your brake pedal as hard as possible.

ABS does not reduce the time or distance it takes to stop the vehicle.

Always maintain a safe distance from the vehicle in front of you.

ABS does not prevent a skid that results from sudden changes in direction, such as trying to take a corner too fast or making a sudden lane change. Always drive at a safe speed for the road and weather conditions.

ABS cannot prevent a loss of stability. Always steer moderately when braking hard. Severe or sharp steering wheel movement can still cause your vehicle to veer into oncoming traffic or off the road.

On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.

The ABS () warning light stays on for several seconds after the Start/Stop button is in the ON position.

During that time, ABS goes through self-diagnosis and the light goes off if everything is normal. If the light stays on, we recommend that you contact an authorized HYUNDAI dealer as soon as possible.

WARNING

If the ABS (ABS) warning light is on and stays on you may have a problem with the ABS. Your power brakes work normally. To reduce the risk of serious injury or death it is recommended to contact your authorized HYUNDAI dealer as soon as possible.

NOTICE

When you drive on a road having poor traction, such as an icy road, and apply your brakes continuously, ABS is active continuously and the ABS (ABS) warning light may illuminate. Pull your vehicle over to a safe place and turn off the vehicle.

Restart the vehicle. If the ABS warning light is off, then your ABS system is normal.

If not, we recommend that you contact an authorized HYUNDAI dealer as soon as possible.

Information

When you jump start your vehicle because of a drained battery, the ABS (ABS) warning light may turn on at the same time. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.

Electronic Stability Control (ESC)



The Electronic Stability Control (ESC) system helps stabilize the vehicle during cornering maneuvers.

ESC checks where you are steering and where the vehicle is actually going. ESC applies braking pressure to any one of the vehicle's brakes and intervenes in the electric vehicle control system to assist the driver with keeping the vehicle on the intended path. It is not a substitute for safe driving practices. Always adjust your speed and driving to the road conditions.

WARNING

Never drive too fast for the road conditions or too quickly when cornering. The ESC system does not prevent a collision.

Excessive speed in turns, abrupt maneuvers, and hydroplaning on wet surfaces may result in severe collisions.

ESC operation

ESC ON condition

When the Start/Stop button is in the ON position, the ESC and the ESC OFF indicator lights illuminate for about 3 seconds. After both lights go off, ESC is enabled.

When operating



When ESC is in operation, the ESC indicator light blinks:

- When you apply your brakes under conditions that may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal.
- When ESC activates, the vehicle may not respond to the accelerator as it does under routine conditions.

ESC OFF condition



To cancel ESC operation:

- State 1
Press the ESC OFF button briefly. The ESC OFF indicator light and the message, "Traction and Stability Control limited" illuminates.
The traction control function of ESC (electric vehicle control management) is disabled, but the brake control function of ESC (braking management) still operates.
- State 2
Press and hold the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and/or message "Traction and Stability Control disabled" illuminates and a warning chime sounds. Both the traction control function of ESC (electric vehicle control management) and the brake control function of ESC (braking management) are disabled.
If the Start/Stop button is pressed to the OFF position when ESC is off, ESC remains off. Upon restarting the vehicle, ESC automatically turns on again.
When ESC (electric vehicle control) is deactivated, the vehicle will lose the traction and stability if the vehicle is driven by abrupt steering wheel control. It is possible that the tire may make a collision with the connected parts of the tire. We recommend to do not turn off ESC while driving the vehicle for your safety.

Indicator lights

ESC indicator light (blinks)



ESC OFF indicator light (comes on)



When the Start/Stop button is in the ON position, the ESC indicator light illuminates, then goes off if the ESC system is operating normally.

The ESC indicator light blinks whenever ESC is operating.

If the ESC indicator light stays on, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

The ESC OFF indicator light comes on when ESC is turned off.

WARNING

When ESC is blinking, this indicates ESC is active:

- Drive slowly and NEVER attempt to accelerate.
- Never turn off ESC while the ESC indicator light is blinking. You may lose control of the vehicle and collide.

NOTICE

Driving with wheels and tires with different sizes may cause the ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the appropriate size for your vehicle. Never drive the vehicle with different sized wheels and tires installed.

ESC OFF usage

When Driving

The ESC OFF mode should only be used briefly to help free the vehicle if stuck in snow or mud, by temporarily stopping operation of ESC, to maintain wheel torque.

To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

NOTICE

To prevent damage to the reducer:

- Do not allow wheel(s) of one axle to spin excessively while the ESC, ABS, and Parking Brake warning lights appear. The repairs would not be covered by the vehicle warranty.
Reduce motor power and do not spin the wheel(s) excessively while these lights appear.
- When operating the vehicle on a dynamometer, make sure ESC is turned off (ESC OFF light illuminated).

i Information

Turning ESC off does not affect ABS or standard brake system operation.

Vehicle Stability Management (VSM)

Vehicle Stability Management is a function of the Electronic Stability Control (ESC) system. It helps the vehicle stay stable when accelerating or braking suddenly on wet, slippery and rough roads where traction over the four tires can suddenly become uneven.

WARNING

Take the following precautions when using Vehicle Stability Management:

- ALWAYS check the speed and the distance to the vehicle ahead. VSM is not a substitute for safe driving practices.
- Never drive too fast for the road conditions. VSM will not prevent accidents. Excessive speed in bad weather, on slippery and uneven roads can result in severe accidents.

VSM operation

When operating

When you apply your brakes under conditions that can activate ESC, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your VSM is active.

Information

VSM does not operate when:

- Driving on a banked road such as gradient or incline.
- Driving in reverse.
- The ESC OFF indicator light is on.
- The MDPS (Motor Driven Power Steering) warning light () is on or blinks.

VSM OFF condition

To cancel VSM operation, press the ESC OFF button. ESC OFF () indicator light illuminates.

To turn on VSM again, press the ESC OFF button again. The ESC OFF indicator light goes out.

WARNING

If the ESC () indicator light or MDPS () warning light stays illuminated or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

NOTICE

Driving with wheels and tires with different sizes may cause the VSM system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

Hill-Start Assist Control (HAC)

Hill-Start Assist Control helps prevent the vehicle from rolling backwards when starting from a stop on a hill. The system operates the brakes automatically for about 2 seconds (maximum of 5 seconds when the accelerator pedal is slightly depressed during HAC operation) and releases the brake after 2 seconds or when the accelerator pedal is depressed.

WARNING

- Always be ready to depress the accelerator pedal when starting from a stop on an uphill slope. Hill-Start Assist Control activates only for about 2 seconds.
- Hill-Start Assist Control does not operate when the gear is shifted to P (Park) or N (Neutral).
- Hill-Start Assist Control activates even when the ESC (Electronic Stability Control) is off. It does not activate, if the ESC is not operating normally.

Emergency Stop Signal (ESS)

Emergency Stop Signal alerts the driver behind by blinking the stop lights, while sharply and severely braking.

ESS operation

The stop light blinks quickly when:

- The vehicle suddenly stops. (The deceleration power exceeds 7 m/s^2 , and the driving speed exceeds 55 km/h (34 mph).)
- ABS is activated.

ESS off

After the blinking of the stop lights, the hazard warning flasher automatically turns ON when:

- Driving speed is under 40 km/h (25 mph) and the sudden braking situation is over.
- ABS is deactivated.

The hazard warning flasher turns OFF when:

- The vehicle drives at a low speed for a certain period of time.
- The driver can manually turn OFF the hazard warning flasher by pressing the button.

CAUTION

Emergency Stop Signal does not activate, when the hazard warning flashers are already on.

Multi-Collision Brake (MCB)

Multi-Collision Brake controls the brake automatically in the event of an accident where the airbag deploys to reduce the risk of additional accidents that may occur.

MCB operation

- From the time the airbag deploys, Multi-Collision Brake monitors the depression intensity of the brake pedal and accelerator pedal for a short period. The system operates when the following conditions are met:
 - Vehicle speed is under 180 km/h (112 mph) at the time of collision.
 - The brake and accelerator pedals are hardly depressed.
- When the driver steps on the brake pedal over a certain level while Multi-Collision Brake is active, the braking power takes priority over automatic braking by Multi-Collision Brake system. However, if the driver takes his/her foot off the brake pedal, automatic braking by Multi-Collision Brake system will maintain automatic braking.

MCB off

Multi-Collision Brake is canceled in the following situations:

- The accelerator pedal is depressed over a certain level.
- The vehicle stops.
- ESC (Electronic Stability Control) or electronic devices has malfunctioned.
- In a situation system cannot operate normally.
- 10 seconds have passed since the brake has been controlled automatically by Multi-Collision Brake system.

WARNING

- Multi-Collision Brake decreases vehicle speed after a collision and reduces the risk of a second collision, but it does not prevent a second collision. You may drive away from the collision spot to avoid other dangerous situations by depressing the accelerator pedal.
- After the vehicle is stopped by Multi-Collision Brake, the system stops controlling the brakes. Depending on the situation, the driver should depress the brake or the accelerator pedal to prevent further accidents.

Brake Assistant System (BAS)

The Brake Assistant System provides additional pressure when the brake pedal is momentarily and strongly depressed in a situation where sudden braking is required while driving.

The Brake Assistant System reduces the time for ABS (Anti-Lock Brake System) control to enter and consequently reduces the braking distance, by providing additional pressure up to the point of ABS intervention.

WARNING

The system may not operate depending on driver's driving habit, driving speed, the degree to which the brake pedal is depressed and the road surface condition.

Good braking practices

WARNING

Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Shift the gear to the P (Park) position, then apply the EPB, and press the Start/Stop button to the OFF position.

Vehicles parked with the EPB not applied or not fully engaged may roll inadvertently and may cause injury to the driver and others. ALWAYS apply the parking brake before exiting the vehicle.

Wet brakes can be dangerous! The brakes may get wet if the vehicle is driven through standing water or if it is washed. Your vehicle will not stop as quickly if the brakes are wet. Wet brakes may cause the vehicle to pull to one side.

To dry the brakes, apply the brakes slightly until the braking action returns to normal. If the braking action does not return to normal, stop as soon as it is safe to do so. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

DO NOT drive with your foot resting on the brake pedal. Even light, but constant pedal pressure can result in the brakes overheating, brake wear, and possibly even brake failure.

If a tire goes flat while you are driving, apply the brakes gently and keep the vehicle pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe location.

Keep your foot firmly on the brake pedal when the vehicle is stopped to prevent the vehicle from rolling forward.

Four Wheel Drive (4WD)

 if equipped

When Four Wheel Drive (4WD) is activated, driving forces are distributed appropriately to front and rear wheels. It could improve driving performance by maximizing the driving force of vehicles on severe road conditions such as steep hills, unpaved, slippery, etc.

Advantage of electronic 4WD

1. Improvement of straight stability
2. Improvement of driving performance on curve
3. Secure stability on severe condition such as wet and sandy roads.
4. Improvement of energy efficiency from driving mode automatic control.

Information

4WD vehicles could change the engagement status of the motor according to the situation required. Auto changing the driving mode (2WD/4WD) helps improve energy efficiency and driving stability.

WARNING

To reduce the risk of SERIOUS INJURY or DEATH:

- Avoid high speeds when cornering or turning.
 - Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
 - The risk of a rollover is greatly increased if you lose control of your vehicle at highway speeds.
 - Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
 - In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
-

NOTICE

- Do not drive in water if the level is higher than the bottom of the vehicle.
- Check your brake condition once you are out of mud or water. Depress the brake pedal several times as you move slowly until you feel normal braking return.
- Shorten your scheduled maintenance interval if you drive in off-road conditions such as sand, mud or water. refer to the "Maintenance under severe usage conditions" section in chapter 9.
- Always wash your vehicle thoroughly after off road use, especially the bottom of the vehicle.
- Be sure to equip the vehicle with four tires of the same size and type.
- Make sure that a full time 4WD vehicle is towed by a flat bed tow truck.

For safe 4WD operation**Before driving**

- Make sure all passengers are wearing seat belts.
- Sit upright and closer to the steering wheel than usual. Adjust the steering wheel to a position comfortable for you to drive.

Driving on snow-covered or icy roads

- Start off slowly by applying the accelerator pedal gently.
- Use snow tires or tire chains.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- Using regenerative braking helps the steering on the downhill. However, it may be difficult to adjust the vehicle while coasting using regenerative braking, so avoid using the third level of regenerative braking as much as possible.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent skids.
- It is difficult to start again if the vehicle stops on an uphill road. Keep your distance from other vehicles and drive slowly.

i Information

When using Snow Tires, mount them on all four wheels.

When using tire chains, install them on the rear tires.

However, driving speed must be below 30 km/h and minimize the driving distance. High-speed or long-term driving with tire chains installed may malfunction or damage the 4WD system. For more details on Snow Tires and Tire Chains, refer to "Winter driving" section later in this chapter.

Driving in sand or mud

- Maintain slow and constant speed.
- Use tire chains driving in mud if necessary.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- Reduce vehicle speed and always check the road condition.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent getting stuck.

NOTICE

When the vehicle is stuck in snow, sand or mud, place a nonslip material under the drive wheels to provide traction OR slowly spin the wheels in forward and reverse directions which causes a rocking motion that may free the vehicle.

Driving up or down hills

- Driving uphill
 - Before starting off, check if it is possible to drive uphill.
 - Drive as straight as possible.
- Driving downhill
 - Drive as straight as possible.

WARNING

Exercise extreme caution driving up or down steep hills. The vehicle may flip over depending on the grade, terrain, water and mud conditions.

WARNING

Do not drive across the contour of steep hills. A slight change in the wheel angle can destabilize the vehicle, or a stable vehicle may lose stability if the vehicle stops its forward motion. Your vehicle may roll over and lead to a serious injury or death.

Additional driving conditions

- Become familiar with the off-road conditions before driving.
- Always pay attention when driving off-road and avoid dangerous areas.
- Drive slowly when driving in heavy wind.
- Reduce vehicle speed when cornering. The center of gravity of 4WD vehicles is higher than conventional 2WD vehicles, making them more likely to roll over when you rapidly turn corners.
- Always hold the steering wheel firmly when you are driving off-road.

WARNING

Do not grab the inside of the steering wheel when you are driving off-road. You may hurt your arm by a sudden steering maneuver or from steering wheel rebound due to an impact with objects on the ground. You could lose control of the steering wheel which may lead to serious injury or death.

Emergency precautions

Tires

When replacing tires, be sure to equip all four tires with the same size, type, tread patterns, brand and load-carrying capacity.

WARNING

Do not use tires and wheels with different sizes and types from those originally installed on your vehicle. It can affect the safety and performance of your vehicle, which could lead to steering failure or rollover causing serious injury.

WARNING



Never start or run the vehicle while an 4WD vehicle is raised on a jack. The vehicle can slip or roll off of a jack causing serious injury or death to you or those nearby.

Towing

4WD vehicles must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground. For more details, refer to "Towing" section in chapter 8.

Vehicle inspection

- If the vehicle needs to be operated on a vehicle lift do not attempt to stop any of the four wheels from turning. This could damage the 4WD system.
- Never engage the parking brake while running the vehicle on a car lift. This may damage the 4WD system.

Dynamometer testing

An 4WD vehicle must be tested on a special four wheel chassis dynamometer.



[A] Roll tester (Speedometer)
[B] Temporary free roller

An 4WD vehicle should not be tested on a 2WD roll tester. If a 2WD roll tester must be used, perform the following procedure:

1. Check the tire pressures recommended for your vehicle.
2. Place the rear wheels on the roll tester for a speedometer test as shown in the illustration.
3. Release the parking brake.
4. Place the front wheels on the temporary free roller as shown in the illustration.

WARNING

Keep away from the front of the vehicle while the vehicle is in gear on the dynamometer. The vehicle can jump forward and cause serious injury or death.

Drive mode integrated control system (2WD)

 If equipped

Drive mode



The drive mode may be selected according to the driver's preference or road conditions.

The system resets to NORMAL mode, when the vehicle is restarted.



The mode changes whenever the driver pushes the DRIVE MODE button.

- **ECO ↔ NORMAL ↔ SPORT ↔ SNOW**

Drive mode features

NORMAL mode

NORMAL mode provides smooth driving and comfortable riding.

NORMAL mode is selected, it does not appear on the instrument cluster.

ECO mode

ECO mode helps improve energy efficiency for eco-friendly driving.

Energy efficiency varies according to the driver's driving habit and road condition.

- When ECO mode is selected, the ECO indicator illuminates on the instrument cluster.
- The drive mode resets to NORMAL mode when the vehicle is restarted.
- When ECO mode is activated:
 - The acceleration response may be slightly reduced if the accelerator pedal is depressed moderately.
 - The air conditioner performance may be limited.

The above situations are normal conditions when ECO mode is activated to help improve electric energy efficiency.

SPORT mode

SPORT mode provides sporty but firm riding.

In SPORT mode, the energy efficiency may decrease.

- When SPORT mode is selected, the SPORT indicator will illuminate on the instrument cluster.
- The drive mode resets to NORMAL mode when the vehicle is restarted.

SNOW mode

SNOW mode helps to drive on slippery roads.

The motor's driving power is properly distributed to the wheels, to help start the vehicle stably on slippery roads or keep tires from slipping.

- The drive mode resets to NORMAL mode when the vehicle is restarted.

Drive mode characteristic

The characteristic of each components varies according to which drive mode is selected.

Drive mode	SNOW	NORMAL	ECO	SPORT
Characteristics	Snow driving	Normal driving mode	High electric energy efficiency mode	Sporty driving mode
Button activation	Press	Press	Press	Press
Indicator on the cluster	SNOW	NORMAL	ECO	SPORT
Speed Limit	-	-	-	-
Regenerative braking level	0~1	0~3		

i Information

- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
- You can set the driving condition for each drive mode, at the **Drive Mode > Climate Control ECO Mode** in the infotainment system.

Drive mode integrated control system (4WD)

 if equipped

Drive mode



The drive mode may be selected according to the driver's preference or road conditions.

The system resets to NORMAL mode, when the vehicle is restarted.



The mode changes whenever the driver pushes the DRIVE MODE button.

- **ECO ↔ NORMAL ↔ SPORT ↔ SNOW**

Drive mode features

NORMAL mode

NORMAL mode is a driving with auto changing the driving mode (2WD/4WD) on road condition.

ECO mode

ECO mode is a driving mode vehicles could change the engagement status of the motor according to the situation required. Auto changing the driving mode (2WD/4WD) helps improve energy efficiency.

Energy efficiency varies according to the driver's driving habit and road condition.

- When ECO mode is selected, the ECO indicator illuminates on the instrument cluster.
- When ECO mode is activated:
 - The acceleration response may be slightly reduced if the accelerator pedal is depressed moderately.
 - The air conditioner performance may be limited.
 - The shift pattern of the reduction gear may change.

The above situations are normal conditions when ECO mode is activated to help improve electric energy efficiency.

SPORT mode

SPORT mode is a driving mode improving driving performance by fixing 4WD system and controlling reduction gear.

In SPORT mode, the energy efficiency may decrease.

- When SPORT mode is selected, the SPORT indicator will illuminate on the instrument cluster.
- The drive mode resets to NORMAL mode when the vehicle is restarted.

SNOW mode

SNOW mode is a driving mode improving driving performance by changing the engagement status of the motor according to the situation required. Auto changing the driving mode (2WD/4WD) helps improve driving stability.

- The drive mode resets to NORMAL mode when the vehicle is restarted.
- When SNOW mode is activated, the driving power is distributed to four wheels automatically, increasing the stability of the vehicle.

Drive modes characteristic

The characteristic of each components varies according to which drive mode is selected.

Drive mode	SNOW	NORMAL	ECO	SPORT
Characteristics	Snow driving	Normal driving mode	High electric energy efficiency mode	Sporty driving mode
Button activation	Press	Press	Press	Press
Indicator on the cluster	SNOW	NORMAL	ECO	SPORT
Speed Limit	-	-	-	-
Regenerative braking level	0~1	0~3		

i **Information**

- The infotainment system may change after software updates. For more information, refer to the infotainment system manual.
- You can set the driving condition for each drive mode, at the **Drive Mode > Climate Control ECO Mode** in the infotainment system.

Drift mode

 If equipped

DRIFT mode is a driving mode that automatically activates rear wheels (2WD) and brakes or Electronic Limited Slip Differential (e-LSD) to easily achieve drift with a small steering wheel angle and accelerator pedal.

To activate DRIFT mode

Pull and hold the left and right paddle shift levers for more than 3 seconds at the same time to switch to drift mode. When activated DRIFT mode, the message "DRIFT mode activated" and the DRIFT indicator will illuminate on the instrument panel.

To activate the DRIFT mode, satisfy all of the following conditions:

- Gear in P (Park)
- The ESC OFF is in state 2
- The drive mode is SPORT mode
- Depress the brake pedal

DRIFT mode disabled

The DRIFT mode will be canceled or limited when:

- If the driving mode is changed to a mode other than SPORT during DRIFT mode operation
- The ESC OFF stage 2 is released
- When pull and hold the left and right paddle shift levers for more than 3 seconds at the same times during DRIFT mode operation
- The power down warning (⚡) indicator or service warning (↔) indicator is illuminate
- The ESC or e-LSD indicator is illuminate



WARNING

- The driver should hold the responsibility to safely drive and control the vehicle when using DRIFT mode.
- Use the drift mode in wide and flat road surface without pedestrians, vehicles or obstacles for the safety of vehicles and pedestrians.
- Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- If you drive in DRIFT mode continuous, it can cause premature wear or damage to drive shafts and brake parts.

Active air flap

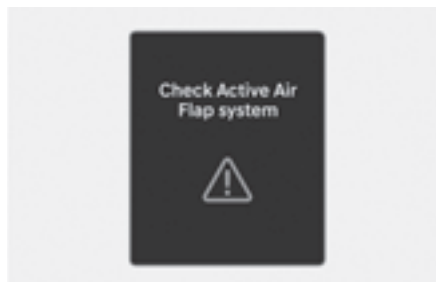


Active air flap system controls the air flap below the front bumper to cool the vehicle parts and improve energy efficiency.

i Information

Active air flap system could be activate regardless of the vehicle condition. (Parking, driving, charging, etc.)

Malfunction



The active air flap system may not operate normally if the air flap is temporarily opened due to foreign factors or if the controller is contaminated by snow or rain, etc.

When "**Check the active air flap system**" message appears on the cluster display, stop the vehicle in a safe place and check the status of the air flap.

Start the vehicle after performing the necessary work like foreign matter removal and waiting 10 minutes. If the pop-up remains up we recommend that you contact an authorized HYUNDAI dealer.

CAUTION

- Regardless of the pop-up, if the air flaps aren't in the same position, stop the vehicle and wait for 10 minutes and start the vehicle and inspect the air flap.
 - The active air flap system is actuated by motors. Do not disturb actuation or apply force excessively. It may cause failure.
-

Active sound design (except Europe)

 if equipped

- Active sound design provides various virtual driving sounds based on the driving mode, vehicle speed, and accelerator pedal. You can adjust the volume and change the settings for acceleration pedal response and sound style.
- To change the volume of the Active sound design in the infotainment system, select:
Sound > Active sound design, or
Vehicle > Active sound design.
- Any unauthorized replacement of the vehicle's speaker and amplifier may cause Active Sound Design to malfunction.

Special driving conditions

Hazardous driving conditions

When hazardous driving elements are encountered such as water, snow, ice, mud and sand, take the following precautions:

- Drive cautiously and maintain a longer braking distance.
- Avoid abrupt braking or steering.
- When your vehicle is stuck in snow, mud, or sand, accelerate slowly to avoid unnecessary wheel spin.
- Put sand, rock salt, tire chains or other non-slip materials under the wheels to provide additional traction while the vehicle becomes stuck in ice, snow, or mud.



WARNING

Changing the tire speed suddenly could cause the tires to skid while driving on slippery surface. Be careful when driving on slippery surfaces.

Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and a forward gear.

Do not race the vehicle, and spin the wheels as little as possible.

If you are still stuck after a few tries, have the vehicle pulled out by a tow vehicle to avoid vehicle overheating and possible damage to the reducer.

WARNING

- Always turn off the ESC system before rocking the vehicle. If the vehicle is stuck and excessive wheel spin occurs, the temperature in the tires may increase very quickly. If the tires become damaged, a tire blow out or tire explosion may occur - you and others may be injured. Do not attempt this procedure if people or objects are near the vehicle.
 - If you attempt to free the vehicle, the vehicle can overheat quickly, possibly causing an motor compartment fire or other damage. Try to avoid spinning the wheels as much as possible to prevent overheating of either the tires or the motor. DO NOT allow the vehicle to spin the wheels above 56 km/h (35 mph).
 - If you are still stuck after rocking the vehicle a few times, have the vehicle pulled out by a tow vehicle to avoid motor overheating, possible damage to the gear, and tire damage.
-

Smooth cornering

Avoid braking or paddle shifter in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration.

Driving at night

Night driving presents more hazards than driving in the daylight. Here are some important tips to remember:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas where there may not be any street lights.
- Adjust your mirrors to reduce the glare from other drivers' headlamps.
- Keep your headlamps clean and properly aimed. Dirty or improperly aimed headlamps will make it much more difficult to see at night.
- Avoid staring directly at the headlamps of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

Driving in the rain

Rain and wet roads can make driving dangerous. Here are a few things to consider when driving in the rain or on slick pavement:

- Slow down and allow extra following distance. A heavy rainfall makes it harder to see and increases the distance needed to stop your vehicle.
- Turn OFF your Cruise Control. (if equipped)
- Replace your windshield wiper blades when they show signs of streaking or missing areas on the windshield.
- Be sure your tires have enough tread. If your tires do not have enough tread, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. See "Tire replacement" section in chapter 9.
- Turn on your headlamps to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must go through puddles, try to drive through them slowly.
- If you believe your brakes may be wet, apply them lightly while driving until normal braking operation returns.

Hydroplaning

If the road is wet enough and you are going fast enough, your vehicle may have little or no contact with the road surface and actually ride on the water. The best advice is SLOW DOWN when the road is wet.

The risk of hydroplaning increases as the depth of tire tread decreases, refer to "Tire replacement" section in chapter 9.

Driving in flooded areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be reduced.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

Highway driving

Tires

Adjust the tire inflation, as specified. Under-inflation may overheat or damage the tires.

Do not install worn-out or damaged tires, which may reduce traction or fail the braking operation.

i Information

Never over-inflate your tires above the maximum inflation pressure, as specified on your tires.

Coolant and high voltage battery

Driving at higher speeds on the highway consumes more electric energy and is less efficient than driving at a slower, more moderate speed. Maintain a moderate speed in order to conserve electric energy when driving on the highway.

Be sure to check both the coolant level and the electric energy level before driving.

Reducing the risk of a rollover

Your multi-purpose passenger vehicle is defined as a Sports Utility Vehicle (SUV). Some SUVs have higher ground clearance and a narrower track to make them capable of performing in a wide variety of off-road applications. The specific design characteristics can give them a higher center of gravity than ordinary passenger vehicles making them more likely to roll over if you make abrupt turns. SUVs have a significantly higher rollover rate than other types of vehicles. Always make sure you and your passengers wear your seat belts properly and securely. In a rollover crash, an unbelted person is significantly more likely to be seriously injured or killed than a person wearing a seat belt.

There are steps that a driver can make to reduce the risk of a rollover. If at all possible, avoid sharp turns or abrupt maneuvers, do not load your vehicle with heavy cargo on the roof, and never modify your vehicle in any way.

 WARNING

Some Sports Utility Vehicles (SUVs) can have a significantly higher rollover rate than other types of vehicles. To prevent rollovers or loss of control:

- Take corners at slower speeds than you would with a passenger vehicle.
- Avoid sharp turns and abrupt maneuvers.
- Do not modify your vehicle in any way that you would raise the center of gravity.
- Keep tires properly inflated.
- Do not carry heavy cargo on the roof.

 WARNING

Fasten your seat belt properly. In a rollover crash, an unbelted person is significantly more likely to be seriously injured or killed than a person wearing a seat belt.

Winter driving

Snow or icy conditions

You need to keep sufficient distance between your vehicle and the vehicle in front of you.

Apply the brakes gently. Speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices. Sudden brake applications on snowy or icy roads may cause the vehicle to skid.

To drive your vehicle in deep snow, it may be necessary to install tire chains on your tires.

Always carry emergency equipment.

Some of the items you may want to carry include tire chains, tow straps or chains, a flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, ground cloth, coveralls, a blanket, etc.

Snow tires



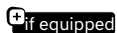
WARNING

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

Use snow tires when the road temperature is below 7 °C (45 °F). If you mount snow tires on your vehicle, be sure to use the same inflation pressure as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions.

The traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. Check with the tire dealer for maximum speed recommendations.

Summer tires



- Summer tires are used to maximize the driving performance on dry roads.
- If the temperature is below 7°C or you are driving on snowy or icy roads, the summer tires lose their brake performance and traction as the tire grip weakens significantly.
- If the temperature is below 7°C or you are driving on snowy or icy roads, mount snow tires or all-season tires of the same size with your vehicle's standard tire for safe driving. Both snow and all-season tires have M+S markings.
- When using the M+S tires, use tires with the same tread produced by the same manufacturer for safe driving.
- When driving with the M+S tires with the lower maximum allowable speed than that of the vehicle's standard summer tire, be careful not to exceed the speed allowed for the M+S tires.

Tire chains (Wire chains)



Since the sidewalls of radial tires are thinner than other types of tires, they may be damaged by mounting some types of tire chains on them. Therefore, the use of snow tires is recommended instead of tire chains. If tire chains must be used, use genuine Hyundai parts and install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warranty.

When using tire chains, install tire chains only on the rear tires.



WARNING

The use of tire chains may adversely affect vehicle handling:

- Drive less than 30 km/h (20 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may cause the vehicle to bounce.
- Avoid sharp turns or locked wheel braking.
- Install tire chains only in pairs and on the rear tires. It should be noted that installing tire chains on the tires will provide a greater driving force, but will not prevent side skids.



Information

Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.

Tire chains (Auto sock)



Since the sidewalls on some radial tires are thinner than other types of tires, they may be damaged by mounting certain types of tire chains on them. Therefore, the use of snow tires is recommended instead of tire chains.

Do not mount tire chains on vehicles equipped with aluminum wheels; if possible, use AutoSock (fabric snow chain). Install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warranty.

When using tire chains, install tire chains only on the rear tires.

⚠ WARNING

The use of AutoSock (fabric snow chain) may adversely affect vehicle handling:

- Drive less than 30 km/h (20 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may cause the vehicle to bounce.
- Avoid sharp turns or locked wheel braking.

***i* Information**

- Install AutoSock (fabric snow chain) only in pairs and on the rear tires. It should be noted that installing AutoSock (fabric snow chain) on the tires will provide a greater driving force, but will not prevent side skids.
- Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.

Chain Installation

When installing AutoSock (fabric snow chain), follow the manufacturer's instructions and mount them as tightly as possible. Drive slowly (less than 30 km/h (20 mph)) with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until the noise stops. Remove the AutoSock (fabric snow chain) as soon as you begin driving on cleared roads.

When mounting AutoSock (fabric snow chain), park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning Flasher and place a triangular emergency warning device behind the vehicle (if available).

Always place the vehicle in P (Park), apply the parking brake and turn off the engine before installing tire chains.

NOTICE

When using tire chains:

- Wrong size chains or improperly installed chains can damage your vehicle's brake lines, suspension, body and wheels.
- Use SAE "S" class wire chains.
- If you hear noise caused by chains contacting the body, retighten the chain to prevent contact with the vehicle body.
- To prevent body damage, retighten the chains after driving 0.5-1.0 km (0.3-0.6 mi.).
- Do not use tire chains on vehicles equipped with aluminum wheels. If unavoidable, use a wire type chain.
- Install tire chains that meet the specifications of each tire size to prevent damage your vehicle.
 - 19 in. tires use wire chains less than 12 mm (0.47 in.).
 - 20 in. tires use AutoSock (fabric snow chain).

Winter precautions

Check battery and cables

Winter temperatures affect battery performance. Inspect the battery and cables, as specified in chapter 9. The battery charging level can be checked by an authorized HYUNDAI dealer or in a service station.

To prevent locks from freezing

To prevent the locks from being frozen, spray approved de-icing fluid or glycerin into key holes. When a lock opening is already covered with ice, spray approved de-icing fluid over the ice to remove it. When an internal part of a lock freezes, try to thaw it with a heated key. Carefully use the heated key to avoid an injury.

Use approved window washer anti-freeze solution in system

Add window washer anti-freeze solution, as specified on the window washer container. Window washer anti-freeze solution is available from an authorized HYUNDAI dealer, and most vehicle accessory outlets.

Do not let your parking brake freeze

Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. When there is the risk that your parking brake may freeze, temporarily apply it with the gear in P (Park). Also, block the rear wheels in advance, so the vehicle may not roll. Then, release the parking brake.

Do not let ice and snow accumulate underneath

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in such conditions during the severe winter, you should check underneath the vehicle on a regular basis, to ensure that the front wheels and the steering components are unblocked.

Carry emergency equipment

In accordance with weather conditions, you should carry appropriate emergency equipment, while driving. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

Do not place objects or materials in the motor compartment

Putting objects or materials in the motor compartment may cause a motor failure. Such damage will not be covered by the manufacturer's warranty.

Trailer towing

Towing a trailer requires experience. The combination of the vehicle and trailer itself is not as responsive as the vehicle by itself. Towing a trailer also requires additional equipment and adequate planning before a trip. Plan your trip according to the speed limits for towing a trailer that may differ from country to country. Always follow the posted speed limits while towing a trailer. Remember that driving your vehicle with a trailer is different from normal driving. Driving with a trailer causes changes to acceleration, braking, handling and stability, and energy economy. For safety of you and passengers, do not overload your vehicle or trailer. Refer to the table in this section for the maximum towing capacity and payload.

This section contains important trailering recommendations and safety rules. Many of these recommendations are important considerations for the safety of you and your passengers. Be sure to read this section carefully and plan ahead before towing a trailer.

WARNING

To prevent serious injury or death:

- If you do not use the correct equipment and/or drive improperly, you can lose control of the vehicle when you are pulling a trailer. For example, if the trailer is too heavy, the braking performance may be reduced. You and your passengers could be seriously or fatally injured. Pull a trailer only if you have followed all the steps in this section.
- Before towing, make sure the total trailer weight, GCW (Gross Combination Weight), GVW (Gross Vehicle Weight), GAW (Gross Axle Weight) and trailer tongue load are all within the limits.

Information

- Do not install any equipment on the vehicle that blocks the license plate and cannot be easily removed or repositioned.
- When a trailer is not used, detach it from the vehicle so that the license plate is visible.

i Information

- The technically permissible maximum load on the rear axle(s) may be exceeded by not more than 15 % and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10% or 100 kg (220.4 lbs), whichever value is lower. In this case, do not exceed 100 km/h (62.1 mph) for vehicle of category M1 or 80 km/h (49.7 mph) for vehicle of category N1.
- When a vehicle of category M1 is towing a trailer, the additional load imposed at the trailer coupling device may cause the tire maximum load ratings to be exceeded, but not by more than 15%. In this case, do not exceed 100 km/h (62.1 mph) and increase the tire inflation pressure by at least 0.2 bar.

* M1 : passenger vehicle (9-seater or under)

* N1 : commercial vehicle (3.5 ton or under)

! CAUTION

- Always have your eyes on the road when towing a trailer. When a trailer is connected to the tow hitch harness installed to your vehicle, the following functions are turned off automatically:
 - Forward Collision-Avoidance Assist
 - Lane Keeping Assist
 - Blind-Spot Collision-Avoidance Assist
 - Safe Exit Warning
 - Lane Following Assist
 - Highway Driving Assist
 - Rear Cross-Traffic Collision-Avoidance Assist
 - Reverse Parking Distance Warning
 - Parking Collision-Avoidance Assist
 - Remote Smart Parking Assist

For more information on each function, refer to chapter 7.

The tow hitch harness installed to your vehicle must be a genuine HYUNDAI parts. For more information, consult an authorized HYUNDAI dealer products.

- If a trailer or hitch mounted carrier is attached, it may adversely affect the performance of the rear corner radar.
 - If a trailer, carrier or other attachment is installed around the rear corner radar, Blind-Spot Collision-Avoidance Assist, Safe Exit Warning, Rear Cross Traffic Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly.
-

If you decide to pull a trailer

- Consider using a sway control. You can ask a trailer hitch dealer about sway control.
- Hyundai recommends that you contact an authorized HYUNDAI dealer for further information on additional requirements such as towing kit etc.
- Do not do any towing with your vehicle during its first 2,000 km (1,200 miles) in order to allow the vehicle to properly break in. Failure to heed this caution may result in serious motor damage.
- Do not exceed 100 km/h (60 mph) or the posted towing speed limit, whichever is lower, when towing a trailer. Note that towing speed limits differ by country. Always be aware of the posted towing speed limit.
- Do not exceed 70 km/h (45 mph) or the posted towing speed limit, whichever is lower on a long uphill grade.
- Trailer instability is more likely to occur when descending steep or long downhill grades. Pay close attention and slow your vehicle speed when descending a long downhill grade. Allow more time and distance for braking and do not brake suddenly. Use the left paddle shifter (+/-) to reduce your vehicle speed and also to help prevent brakes from overheating.
- Carefully observe the weight and load limits provided in the following pages.

Towing load limits

Your vehicle can tow a trailer if you carefully observe the towing load limits, use proper equipment, and follow the towing guidelines. Check the load limits before driving.

Total trailer weight

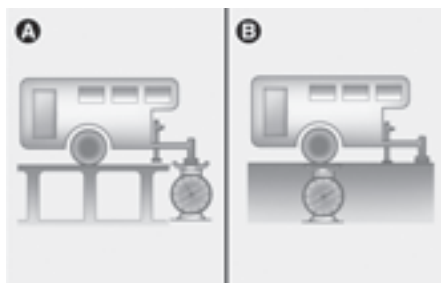
Do not exceed the maximum allowable weight of the trailer, cargo, and everything in or on it. Refer to the table on the following page for the maximum allowable trailer weight.

WARNING

Exceeding the load limit or improperly loading your vehicle and trailer can cause a collision, resulting in serious injury or death.

Be sure to check the loading of your vehicle and trailer carefully before driving.

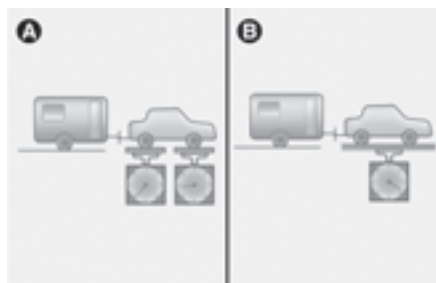
Trailer weight



[A] Tongue load
[B] Total trailer weight

Check if the total load is within limits at a public scale. If a public scale is not available, add the estimated weight of your cargo load to the weight of your trailer (as specified by your trailer manufacturer). In addition, measure the tongue load with an appropriate scale or tongue gauge, or estimate it based on the cargo distribution.

Tongue load



[A] Gross axle weight
[B] Gross vehicle weight

The tongue load is extremely important when setting up your trailer for towing with your vehicle. Excessive tongue load reduces front tire traction and steering control. For example, too little tongue load can make the trailer unstable, causing the trailer to sway because the weight of the trailer is shifted to the rear. The tongue load measured at the hitch when fully loaded should be within 10-15 % of the total weight of the trailer. Be sure to check the load of your vehicle and trailer before driving. Check if the total load is within limits at a public scale. In addition, measure the tongue load with an appropriate scale or tongue gauge. If a public scale is not available, estimate the weight of your cargo load and add the value to the weight of your trailer (as specified by the trailer manufacturer). Refer to the trailer's manual for additional information. Never exceed the gross vehicle weight rating (GVWR) for your vehicle.

How to weigh the trailer loads at a public scale

Fully load the vehicle and trailer before going to the public scale. You and passengers should remain in the vehicle when performing the measurement.

1. Measure the front gross axle weight.
2. Measure the gross vehicle weight.
3. Measure the rear gross axle weight.
4. Measure the gross combined weight (vehicle and trailer).
5. Measure the hitched trailer weight.
6. Measure the unhitched trailer weight.

To calculate the tongue load, subtract (5) from (6).

After you have loaded your trailer, weigh the trailer and then the tongue separately, to see if the weights are proper. If not, you can correct them simply by moving some items around in the trailer.

WARNING

To prevent serious injury or death:

- Never load a trailer with more weight in the rear than in the front. The front should be loaded with about 60 % of the total trailer load. The rear should be loaded with about 40 % of the total trailer load.
- Never exceed the maximum weight limits of the trailer or trailer towing equipment. Check weights and loading at a commercial scale or highway patrol office equipped with scales.

Reference weight and distance when towing a trailer (for Europe)

Item		Standard	Long range
Maximum trailer weight kg (lbs.)	With brake system	750 (1,653)	1,600 (3,527)
	Without brake system	750 (1,653)	750 (1,653)
Maximum permissible static vertical load on the coupling device kg (lbs.)		100 (220)	100 (220)
Recommended distance from rear wheel center to coupling point mm (in.)		865 (34)	865 (34)

Trailer towing equipment

Hitches



i Information

Make sure that all equipment is properly installed and maintained, and that it meets your country's regulations. Hyundai recommends that you have all trailer hitch equipment installed at an authorized HYUNDAI dealer with factory-recommended accessory parts that are specifically designed for your vehicle.

Here are some rules to follow about hitches:

- The bumpers on your vehicle are not intended for hitches. Do not attach rental hitches or other bumper-type hitches to them. Use only a frame mounted hitch that does not attach to the bumper.
- Any part of the rear license plate or lighting devices of the vehicle must not be obscured by the mechanical coupling device. If the rear number plate and/or lighting devices can be obscured partially by any part of the mechanical coupling device, mechanical coupling devices that cannot be easily removed or repositioned without use of any tools, except an easily operated (an effort not exceeding 20 Nm (15 lbf.ft) release key that is supplied by the manufacturer of the coupling device, are not permitted for use. Note that the mechanical coupling device that is fitted and not used must always be removed or repositioned if the rear number plate and/or rear lighting devices are obscured by any part of the mechanical coupling device.
- A HYUNDAI trailer hitch accessory is available at an authorized HYUNDAI dealer.

Safety chains

Always attach chains between your vehicle and your trailer.

Instructions about safety chains may be provided by the hitch manufacturer or trailer manufacturer. Follow the manufacturer's recommendation when attaching safety chains. Always leave just enough slack so you can turn with your trailer. And, never allow safety chains to drag on the ground.

Trailer brakes

Your country's regulations may require trailers to have their own braking system if the loaded weight of the trailer exceeds certain minimums that can vary from country to country. Read and follow the instructions for the trailer's braking system when it is installed, adjusted, and maintained properly. Never attempt to tap into your vehicle's hydraulic braking system.



WARNING

Do not use a trailer with its own brakes unless you are absolutely certain that you have properly set up the brake system. This is not a task for amateurs. Use an experienced, competent trailer shop for this work.

Driving with a trailer

Towing a trailer requires a certain amount of experience. Before driving, acquaint yourself with the feel of handling and braking with the added weight of the trailer. And always keep in mind that the vehicle you are driving is now longer and not nearly as responsive as your vehicle is by itself.

Before you start, check the trailer hitch and platform, safety chains, electrical connector(s), lights, tires, and brakes.

During your trip, occasionally check the load is secure, and that the lights and trailer brakes are still working.

Following distance

Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

Passing distance

You need more passing distance when you are towing a trailer. Because of the increased vehicle length, you may need to go much farther beyond the passed vehicle before you can return to your lane.

Backing up

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, move your hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

Making turns

When you are turning with a trailer, make wider turns than normal. Do this so your trailer does not strike soft shoulders, curbs, road signs, trees, or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

Turn signals

When you tow a trailer, your vehicle has to have a different turn signal flasher and extra wiring. The green arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly connected, the trailer lights will also flash to alert other drivers you are about to turn, change lanes, or stop.

When towing a trailer, the green arrows on your instrument panel flashes for turns even if the bulbs on the trailer are burned out. Thus, you may think drivers behind you are seeing your signals when, in fact, they are not. It's important to check occasionally to make sure the trailer bulbs are still working. Check the lights every time you disconnect and then reconnect the wires.

WARNING

Do not connect a trailer lighting system directly to your vehicle's lighting system. Use an approved trailer wiring harness. Failure to do so may result in damage to the vehicle electrical system and/or personal injury. We recommend that you contact an authorized HYUNDAI dealer for assistance.

Driving on hills

Reduce your speed to around 70 km/h (45 mph) and set to a higher regenerative braking system (paddle shifter) before you start down a long uphill grade. Otherwise, you might have to use your brakes so much that they would get overheated and may not operate efficiently.

If your trailer weighs more than the maximum trailer weight without trailer brakes and you have an reducer, drive in D (Drive) when towing a trailer.

Operating your vehicle in D (Drive) when towing a trailer can minimize heat build-up and extend the life of your reducer.

NOTICE

To prevent motor overheating:

- If you tow a trailer with the maximum gross vehicle weight and maximum trailer weight, it may cause the motor to overheat. When driving in such conditions, allow the motor to cool down. You may proceed once the motor has cooled sufficiently.

NOTICE

When towing a trailer, your vehicle speed may be much slower than the general flow of traffic, especially when climbing an uphill grade. Use the right hand lane when towing a trailer on an uphill grade. Choose your vehicle speed according to the maximum posted speed limit for vehicles with trailers, the steepness of the grade, and your trailer weight.

Parking on hills

Generally, if you have a trailer attached to your vehicle, you should not park your vehicle on a hill.

If you ever have to park your trailer on a hill:

1. Pull the vehicle into the parking space. Turn the steering wheel in the direction of the curb (right if headed down hill, left if headed up hill).
2. Shift the gear to P (Park).
3. Apply the parking brake and shut off the vehicle.
4. Place wheel chocks under the trailer wheels on the down hill side of the wheels.
5. Start the vehicle, hold the brakes, shift to neutral, release the parking brake and slowly release the brakes until the trailer chocks absorb the load.
6. Reapply the brakes and parking brake.
7. Shift the gear to P (Park) when the vehicle is parked on an uphill grade and in R (Reverse) on a downhill.
8. Shut off the vehicle and release the vehicle brakes but apply the parking brake.

WARNING

To prevent serious injury or death:

- Do not get out of the vehicle without applying the parking brake firmly. If you have left the vehicle running, the vehicle may move suddenly. You and others may be seriously or fatally injured.
- Do not apply the accelerator pedal to hold the vehicle on an uphill.

Driving the vehicle after it has been parked on a hill

1. With the gear in P (Park) or N (Neutral), apply your brakes and hold the brake pedal down while you:
 - Start your vehicle.
 - Shift the gear into D (Drive) or R (Reverse).
 - Release the parking brake.
2. Slowly remove your foot from the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

Maintenance when towing a trailer

Your vehicle needs servicing more often when you regularly pull a trailer. Important items to pay particular attention to include reducer fluid, axle lubricant, and cooling system fluid. Brake condition is another important item to frequently check. If you are trailering, it is a good idea to review these items before you start your trip. Do not forget to maintain your trailer and hitch. Follow the maintenance schedule that accompanies your trailer and check it periodically. Preferably, conduct checking at the start of each day's driving. Most importantly, all hitch nuts and bolts must be tight.

NOTICE

To prevent vehicle damage:

- Due to higher load during trailer use, overheating may occur on hot days or during uphill driving. If the coolant gauge indicates over-heating, switch off the air conditioner and stop the vehicle in a safe area to cool down the motor.
- When towing, check reducer fluid more frequently.

Vehicle weight

Two labels on your driver's door sill show how much weight your vehicle was designed to carry: the Tire and Loading Information Label and the Certification Label.

Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from the vehicle's specifications and the Certification Label:

Base Curb Weight

This is the weight of the vehicle including high voltage battery and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight

This is the weight of your new vehicle when you picked it up from your dealer plus any after market equipment.

Cargo Weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

GAW (Gross Axle Weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

GAWR (Gross Axle Weight Rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the Certification Label. The total load on each axle must never exceed its GAWR.

GVW (Gross Vehicle Weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

GVWR (Gross Vehicle Weight Rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Certification Label located on the driver's door sill.

Overloading



WARNING

The Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) for your vehicle are on the Certification Label attached to the driver's (or front passenger's) door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.

7. Driver assistance system

NOTICE

- The Driver Assistance System uses camera and radar system to give signals and controls to improve the safety surroundings and comfort of the driver. It should be noted that ADAS only assists the driver and it does not interchange or substitute with the driver.
- The ADAS delivers vast benefits to driver, but the driver shall be only accountable for driving the car. Driver must be attentive while driving and should follow the traffic rules and regulations.

Driver assistance system notice	7-4
Forward Collision-Avoidance Assist (FCA)	7-4
Forward Collision-Avoidance Assist settings.....	7-9
Forward Collision-Avoidance Assist operation.....	7-13
Forward Collision-Avoidance Assist malfunction and limitations.....	7-26
Lane Keeping Assist (LKA).....	7-35
Lane Keeping Assist settings.....	7-36
Lane Keeping Assist operation.....	7-38
Lane Keeping Assist malfunction and limitations	7-41
Blind-Spot Collision-Avoidance Assist (BCA)	7-44
Blind-Spot Collision-Avoidance Assist settings.....	7-46
Blind-Spot Collision-Avoidance Assist operation.....	7-48
Blind-Spot Collision-Avoidance Assist malfunction and limitations.....	7-51
Safe Exit Warning (SEW)	7-56
Safe Exit Warning settings	7-57
Safe Exit Warning operation.....	7-58
Safe Exit Warning malfunction and limitations	7-59
Safe Exit Assist (SEA).....	7-61
Safe Exit Assist settings	7-62
Safe Exit Assist operation.....	7-63
Safe Exit Assist malfunction and limitations.....	7-65
Manual Speed Limit Assist (MSLA).....	7-68
Manual Speed Limit Assist operation	7-68
Intelligent Speed Limit Assist (ISLA)	7-71

Intelligent Speed Limit Assist Settings	7-72
Intelligent Speed Limit Assist Operation	7-74
Intelligent Speed Limit Assist Malfunction and Limitations	7-76
Driver Attention Warning (DAW).....	7-79
Driver Attention Warning settings.....	7-80
Driver Attention Warning operation.....	7-81
Driver Attention Warning malfunction and limitations	7-82
Forward Attention Warning (FAW)	7-86
Forward Attention Warning settings.....	7-86
Forward Attention Warning operation.....	7-87
Forward Attention Warning malfunction and limitations.....	7-88
Blind-Spot View Monitor (BVM).....	7-91
Blind-Spot View Monitor settings	7-91
Blind-Spot View Monitor operation	7-92
Blind-Spot View Monitor malfunction	7-92
Cruise Control (CC).....	7-93
Cruise Control operation	7-93
Smart Cruise Control (SCC).....	7-96
Smart Cruise Control settings	7-97
Smart Cruise Control operation	7-99
Smart Cruise Control malfunction and limitations	7-109
Navigation-Based Smart Cruise Control (NSCC).....	7-115
Navigation-based Smart Cruise Control Settings.....	7-115
Navigation-based Smart Cruise Control Operation.....	7-116
Limitations of Navigation-based Smart Cruise Control	7-117
Lane Following Assist (LFA).....	7-120
Lane Following Assist settings	7-121
Lane Following Assist operation	7-121
Lane Following Assist malfunction and limitations	7-124
Highway Driving Assist (HDA).....	7-125
Highway Driving Assist Settings.....	7-127
Highway Driving Assist Operation	7-128
Highway Driving Assist Malfunction and Limitations	7-137
Rear View Monitor (RVM)	7-139
Rear View Monitor settings	7-139

7. Driver assistance system

Rear View Monitor operation	7-140
Rear View Monitor malfunction and limitations	7-143
Surround View Monitor (SVM)	7-144
Surround View Monitor settings	7-144
Surround View Monitor operation	7-146
Surround View Monitor malfunction and limitations	7-151
Rear Cross-Traffic Collision-Avoidance Assist (RCCA)	7-152
Rear Cross-Traffic Collision-Avoidance Assist settings	7-153
Rear Cross-Traffic Collision-Avoidance Assist operation	7-154
Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations	7-158
Forward/Reverse Parking Distance Warning (PDW)	7-164
Forward/Reverse Parking Distance Warning settings	7-164
Forward/Reverse Parking Distance Warning operation	7-165
Forward/Reverse Parking Distance Warning malfunction and limitations	7-167
Forward/Side/Reverse Parking Distance Warning (PDW)	7-170
Forward/Side/Reverse Parking Distance Warning Settings	7-171
Forward/Side/Reverse Parking Distance Warning Operation	7-172
Forward/Side/Reverse Parking Distance Warning Malfunction and Limitations	7-175
Reverse Parking Collision-Avoidance Assist (PCA)	7-178
Reverse Parking Collision-Avoidance Assist settings	7-178
Reverse Parking Collision-Avoidance Assist operation	7-179
Reverse Parking Collision-Avoidance Assist malfunction and limitations	7-181
Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA)	7-187
Parking Collision-Avoidance Assist settings	7-188
Parking Collision-Avoidance Assist operation	7-189
Parking Collision-Avoidance Assist malfunction and limitations	7-191
Remote Smart Parking Assist 2 (RSPA 2)	7-196
Remote Smart Parking Assist settings	7-198
Remote Smart Parking Assist operation	7-199
Remote Smart Parking Assist malfunction and limitations	7-220
Declaration of conformity	7-228
Front radar	7-228
Front corner radar / Rear corner radar	7-231

Driver assistance system notice

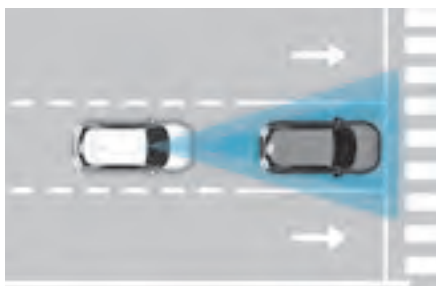
i Information

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

Forward Collision-Avoidance Assist (FCA)

 if equipped

Basic function



Forward Collision-Avoidance Assist detects a vehicle, a motorcycle, 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, if equipped with front corner radars, 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)

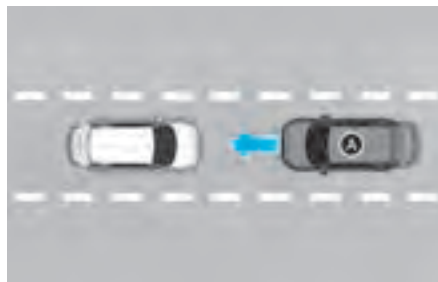
NOTICE

A motorcyclist refers to the driver of a vehicle riding the following powered two-wheeler.

- Mopeds with 50 cc and restricted top speeds
- Motorcycles

Junction Turning function

Junction Turning function can help avoid a collision with an oncoming vehicle or motorcycle in an adjacent lane when turning left (left-hand drive) or right (right-hand drive) at a crossroad with the turn signal on by applying emergency braking.

Direct Oncoming function

[A] Oncoming vehicle

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

Junction Crossing function

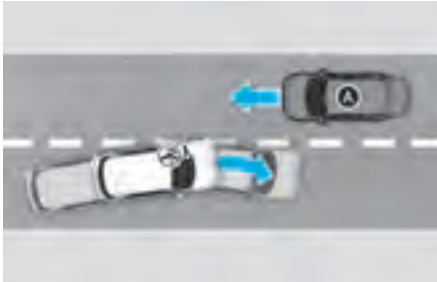
if equipped



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.

Lane-Change Oncoming function

 if equipped

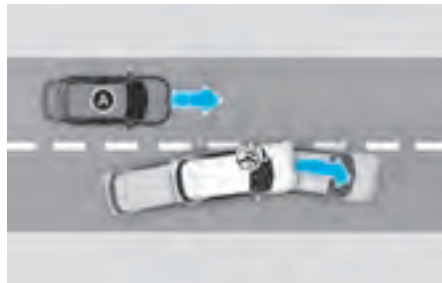


[A] Oncoming vehicle

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

Lane-Change Side function

 if equipped

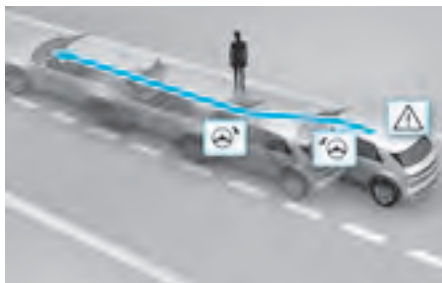


[A] Front-side vehicle

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

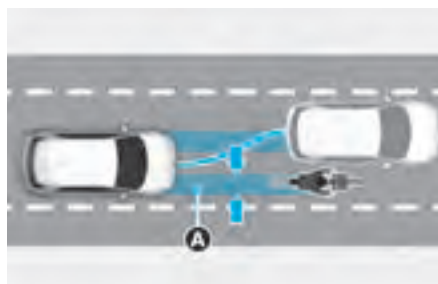
Evasive Steering Assist function

 If equipped



- Driver steering assist
Evasive Steering Assist function helps avoid a collision with a vehicle, motorcycle, 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 motorcycle, 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



- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)
- [D] Rear corner radar (if equipped)

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

CAUTION

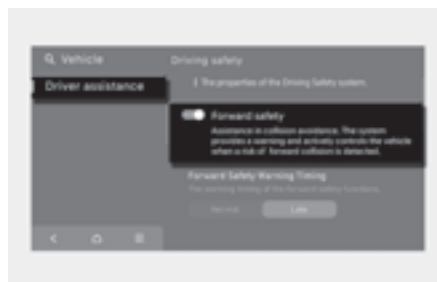
Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the detecting sensor or sensor assembly, or cause any damage to it.
- If the detecting sensors have been replaced or repaired, we recommend that your vehicle be 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 cluster. we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair or replace a damaged front radar cover. Do not apply paint to the front radar cover.
- Vehicles equipped with radar
 - Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the radar.
 - The function may not work properly when the bumper has been replaced, or the surroundings of the radar has been damaged or paint has been applied.
 - If a trailer, carrier, etc., is installed, it may adversely affect the performance of the radar or Forward Collision-Avoidance Assist may not operate properly.

Forward Collision-Avoidance Assist settings

Forward Safety



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety** in the infotainment system 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 cluster.

Forward Cross-Traffic Safety

 if equipped



With the vehicle on, select **Settings > Vehicle > Driver assistance > Forward cross-traffic safety** in the infotainment system to turn on Junction Crossing function and deselect to turn off the function.

Forward/Side Safety

 if equipped



With the vehicle on, select **Settings > Vehicle > Driver assistance > Forward/Side safety** in the infotainment system to set whether to use each function.

- If **“Forward/Side Safety”** is selected, Forward Collision-Avoidance Assist will warn the driver with 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 Safety will turn off. The warning light (⚠) will illuminate on the cluster.

The driver can monitor Forward Collision-Avoidance Assist On/Off status in the infotainment system. If the warning light ⚠ or ⚠ remains ON when Forward Collision-Avoidance Assist is on, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

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

CAUTION

- The settings for **Forward Safety** include 'Basic function', 'Junction Turning' and 'Direct Oncoming'. **Forward/Side Safety** include 'Lane-Change Oncoming', 'Lane-change side' and 'Evasive Steering Assist'.
- If **“Forward Safety”** is deselected, Junction Crossing function will not operate even when **Forward cross-traffic Safety** or **Forward/Side Safety** is selected. (if equipped)
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and the Forward/Side Safety of Forward Collision-Avoidance Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Forward Safety Warning Timing



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety > Forward Safety Warning Timing** in the infotainment system to change the initial warning activation time for Forward Collision-Avoidance Assist. The warning time can be set to either **“Normal”** or **“Late”**

- Use **“Normal”** 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 **“Normal”** is selected for Warning Timing, if the front vehicle suddenly stops, the warning may seem late.
- Select **“Late”** for warning timing when traffic is light and when driving speed is slow.

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning Volume:** The warning volume can be adjusted. If you turn off the **Warning Volume**, for your safety, the function may warn you with a low volume.
- **Haptic warning:** The steering wheel vibration can be set.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

i Information

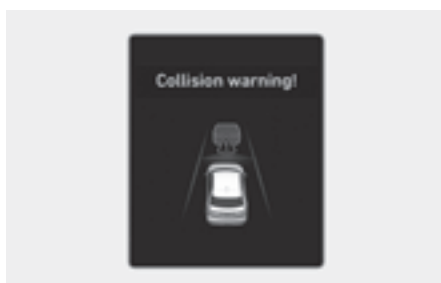
- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
- The **Warning volume** and **Haptic warning** cannot be turned off at the same time. When one of the warnings is turned off the other is activated.

Forward Collision-Avoidance Assist operation

Basic function

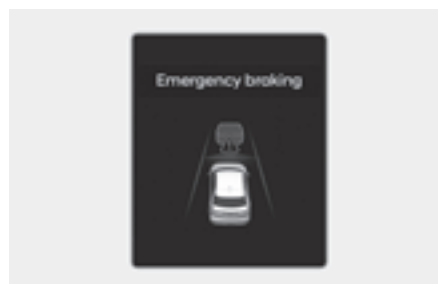
The basic function for Forward Collision-Avoidance Assist is to warn and help control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

Collision Warning



- To warn the driver of a collision, the “**Collision Warning**” warning message will appear on the cluster, an audible warning will sound.
- If a vehicle or motorcycle 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, the “**Emergency Braking**” warning message will appear on the cluster, an audible warning will sound.

Emergency braking will operate under the following conditions.

- **Vehicle or motorcycle** ^{*1}:

	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 10-85 km/h (6-52 mph)

^{*1}: If Forward Collision-Avoidance Assist determines that a collision cannot be avoided even by changing lanes due to the surrounding conditions of the vehicle, collision warning and braking assistance are provided earlier. When the target object is stationary, FCA may operate at speeds between about 10-100 km/h (6-62 mph) (if equipped)

- **Pedestrian or cyclist:** The function operates at vehicle speeds of 10–80 km/h (6–50 mph). In Singapore, Indonesia, and India, it operates at 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.

When driving at night, the motorcycle recognition performance is degraded, so Forward Collision-Avoidance Assist may be temporarily limited or may not work.

Stopping vehicle and ending brake control



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

Information

The audible warning can be turned off while collision warning or emergency braking is operating by pressing the hazard warning flasher button.

Junction Turning function

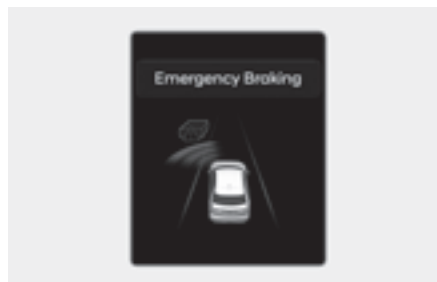
Junction Turning function will warn and help control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

Collision Warning



- To warn the driver of a collision, the “**Collision Warning**” warning message will appear on the 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 speed is between about 30-70 km/h (19-44 mph), motorcyclist and cyclist speed is between about 15-70 km/h (9-44 mph).

Emergency Braking



- To warn the driver that emergency braking will be assisted, the “**Emergency Braking**” warning message will appear on the 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 speed is between about 30-70 km/h (19-44 mph), motorcyclist and cyclist speed is between about 15-70 km/h (9-44 mph).

i Information

- If the driver's seat is on the left side, Junction Turning function will operate only for oncoming vehicles when you turn left. If the driver's seat position is on the right side, the function will operate only for oncoming vehicles when you turn right.
 - When turning left (right-hand drive) or right (left-hand drive) at an intersection, braking is assisted to reduce or avoid collisions if there is a collision risk with a cyclist approaching at the speed of 15 to 20 km/h (9 to 12 mph) from the opposite side.
-

Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the “**Drive carefully**” warning message will appear on the 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

When a collision warning is being issued or emergency braking is being engaged, press the hazard warning flasher button to turn off the warning sound.

Direct-Oncoming function

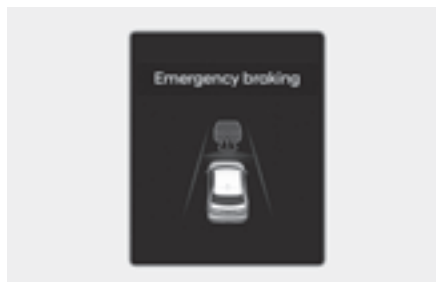
Direct Oncoming function will warn and control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

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 and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between about 30-130 km/h (19-80 mph) (if equipped Junction Crossing function, 10-130 km/h (6-80 mph)) and the detected oncoming vehicle speed is about above 10 km/h (6 mph) and the oncoming motorcyclist 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 and the steering wheel will vibrate.
- 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 or the oncoming motorcyclist 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 or the oncoming motorcyclist is not driving straight, Direct Oncoming function warning and control may be late or may not operate.

WARNING

When driving at night, the motorcyclist recognition performance is degraded, so Forward Collision-Avoidance Assist may be temporarily limited or may not work.

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 and the steering wheel will vibrate.
- 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 and the steering wheel will vibrate.
- 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.

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, the **"Collision Warning"** warning message will appear on the instrument cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between about 40-145 km/h (25-90 mph) and the oncoming vehicle or motorcycle 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



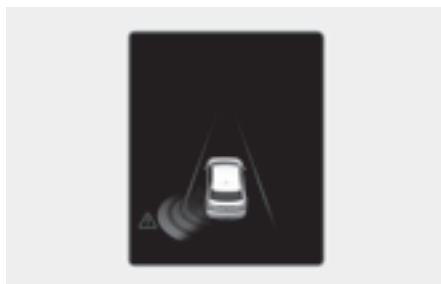
- To warn the driver that emergency steering will be assisted, Emergency Steering warning light (🚨) blinking, the **"Emergency Steering"** warning message will appear on the instrument cluster, an audible warning will sound and the steering wheel will vibrate.
- In emergency steering situation, steering 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 motorcycle 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

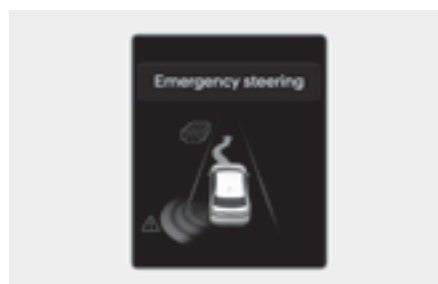
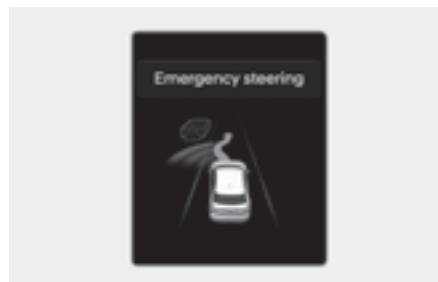
Lane-Change Side function will warn and control the vehicle depending on collision risk level: 'Collision Warning' and 'Emergency Steering'

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 and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between about 40-145 km/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 and the steering wheel will vibrate.
- 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 40-145 km/h (25-90 mph) and front-side vehicle and motorcycle is driving.

CAUTION

- Lane-Change Side function does not operate if the speed of the preceding vehicle or motorcyclist 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 two lanes over and warn you. In contrast, on a wide road, Lane-Change Side function may not be able to detect a vehicle 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.
-

Information

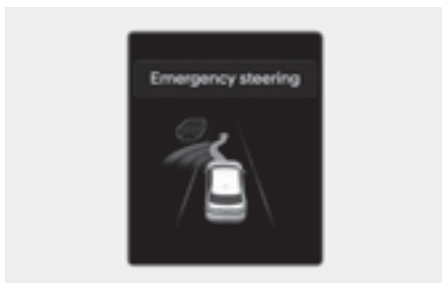
- When an additional accident is expected, Lane-Change Side function will not assist with steering and only warn the driver of a collision.
 - If the driver's seat is on the left side, collision warning will operate when you turn left, and when it is on the right side, the system will operate when you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

Evasive Steering Assist function

 If equipped

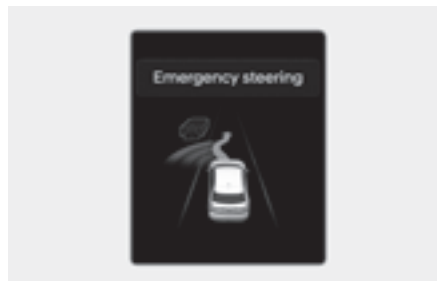
Evasive Steering Assist function will warn and control the vehicle with 'Emergency steering'.

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 and the steering wheel will vibrate.
- If there is a risk of collision with a vehicle, motorcycle, 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 and the steering wheel will vibrate.
- If there is high risk of collision with a pedestrian, cyclist or motorcycle 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.
- The function will operate when your vehicle speed is between about 65-75 km/h (40-47 mph).
- The recognized 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.

CAUTION

- The steering wheel may turn automatically when emergency steering is operating.
 - Emergency steering will automatically cancel when risk factors disappear. If necessary, 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, motorcycle, pedestrian and cyclist, Evasive steering assist will be canceled if collisions with other objects (vehicles, motorcycle, pedestrians, or cyclists) are expected.
 - Evasive steering assist may not operate if space to avoid collision in the driving lane is insufficient.
 - When driving at night, the detecting performance of motorcycle may decrease and temporarily limit or disable Front Collision-Avoidance Assist.
-

Information

For more information on warning messages, refer to Collision Warning in "Forward Collision-Avoidance Assist operation" section in this chapter.

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 and 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 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 appears 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 performance will operate properly.
- 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

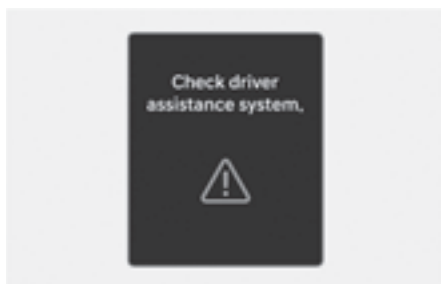
- Depending on the condition of the vehicle, motorcycle, pedestrian and cyclist in front and the surroundings, the speed range to operate Forward Collision-Avoidance Assist may reduce. Forward Collision-Avoidance Assist may only warn the driver, or it may not operate.
- Forward Collision-Avoidance Assist will operate under certain conditions by judging the risk level based on the condition of the oncoming vehicle, motorcycle, driving direction, speed and surroundings.
- Forward Collision-Avoidance Assist may be limited or disabled if the vehicle speed is too fast or the speed difference with the other vehicle, motorcyclist, or cyclist is large.
- 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 cluster type or theme selected in the infotainment system.

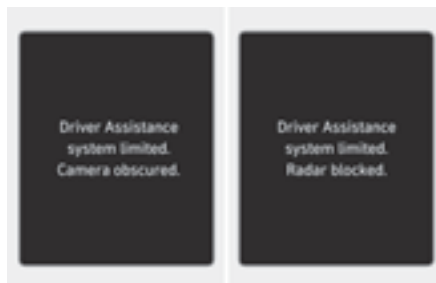
Forward Collision-Avoidance Assist malfunction and limitations

Forward Collision-Avoidance Assist malfunction



When Forward Collision-Avoidance Assist is not working properly, the "**Check Driver Assistance system.**" warning message will appear, and the ,  warning lights will illuminate on the instrument cluster. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Forward Collision-Avoidance Assist disabled



When the front windshield where the front view camera is located, front radar cover, bumper (if equipped) or sensor is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.

If this occurs the "**Driver Assistance system limited. Camera obscured.**" or the "**Driver Assistance system limited. Radar blocked.**" warning message, and the , , or the  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), we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message or warning light does not appear on the 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.

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
- 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, motorcycle, pedestrian or cyclist is detected
- The vehicle in front is a bus, heavy truck, truck with an unusually shaped cargo, trailer, etc.
- The vehicle or motorcycle 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 or motorcycle's ground clearance is low or high
- A vehicle, motorcycle, 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 motorcycle in front is detected late
- The vehicle or motorcycle in front is suddenly blocked by an obstacle
- The vehicle or motorcycle in front suddenly changes lane or suddenly reduces speed
- The vehicle or motorcycle in front is bent out of shape
- The front vehicle or motorcycle speed is fast or slow
- The vehicle or motorcycle in front steers in the opposite direction of your vehicle to avoid a collision
- With a vehicle or motorcycle in front, your vehicle changes lane at low speed
- The vehicle or motorcycle in front is covered with snow
- You are departing or returning to the lane
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- The vehicle or motorcycle in front has an unusual shape
- The vehicle or motorcycle 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, motorcycle, 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
- You are driving through steam, smoke, or shadow.
- You are driving through a tunnel or an iron bridge.
- You are driving in large, open areas where there are few vehicles or structures (e.g. desert, meadow, empty suburb).

- You are driving through roads with railroad tracks or other embedded metal objects.
- Driving in a parking lot
- Driving through a tollgate, 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)

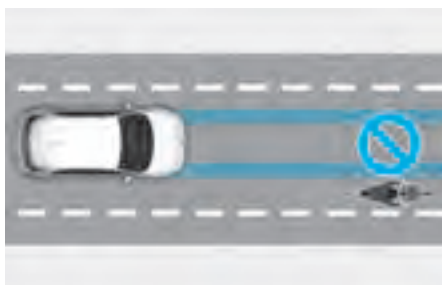
- The temperature around the front corner radar or rear corner radar is high or low
- A trailer or carrier is installed around the rear corner radar
- The front corner radar or rear corner radar is covered with snow, rain, dirt, etc.
- The bumper around the front corner radar or rear corner radar is 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 (or motorway) ramp
- Driving on a road where the guardrail or wall is in double structure
- The other vehicle or motorcycle drives very close behind your vehicle, or the other vehicle or motorcycle passes by your vehicle in close proximity

- The speed of the other vehicle or motorcycle is very fast that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle or motorcycle
- Your vehicle has started at the same time as the vehicle or motorcycle next to you and has accelerated
- The vehicle or motorcycle in the next lane moves two lanes away from you, or when the vehicle or motorcycle 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
- Driving on the left or right side of the median bus lane or on the median bus lane

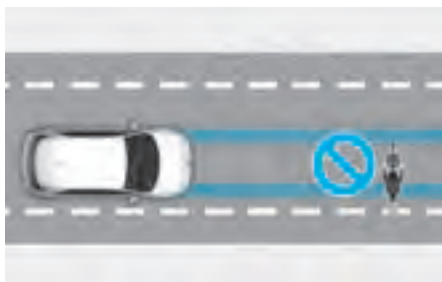
Limitations of Evasive Steering Assist

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

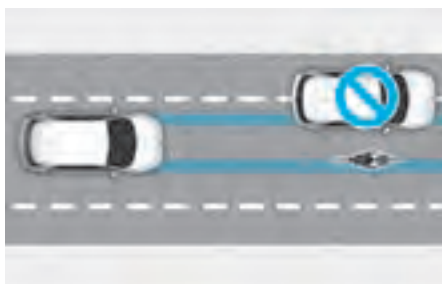
- The pedestrians or cyclists are positioned outside of the operating area.



- 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.



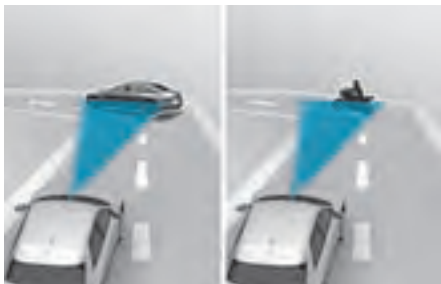
WARNING

- Driving on a curved road



Forward Collision-Avoidance Assist may not detect other vehicles, motorcycles, 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 or steering (if equipped) assist when necessary.

When driving on a curve, 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.



Forward Collision-Avoidance Assist may detect a vehicle, motorcycle, 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 steer (if equipped). Always check the traffic conditions around the vehicle.

- **Driving on an inclined road**



Forward Collision-Avoidance Assist may not detect other vehicles, motorcycles, 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 or no warning, braking assist or steering assist (if equipped) when necessary.

Also, vehicle speed may rapidly decrease when a vehicle, motorcycle, 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 motorcycle 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 motorcycle when the vehicle or motorcycle 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 motorcycle 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, motorcycles, 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 limitations in the driver's blind spot areas and precautions for the rear corner radars, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

Lane Keeping Assist (LKA)

 if equipped

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



[A] Front view camera

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

See the illustration 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 **Settings > Vehicle > Driver assistance > Driving safety > Lane safety** in the infotainment system to set whether to use each function.

If **Lane Safety** is selected, Lane Keeping Assist automatically assists 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 turns off and the yellow  indicator light appears on the cluster.

WARNING

- If the vehicle is restarted, Lane Keeping Assist turns on and "Lane safety" is selected.
- 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.
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Lane Keeping Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning Volume:** The warning volume can be adjusted.
- **Haptic warning:** The steering wheel vibration can be set.
- **Lane Safety Warning Sound:** You can turn off the Lane Safety warning sound when both the **Warning volume** and the **Haptic warning** are on.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

i Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
- The **Warning volume** and **Haptic warning** cannot be turned off at the same time. When one of the warnings is turned off the other is activated.

Lane Keeping Assist operation

Turning Lane Keeping Assist On/Off



- For Europe, Russia
Whenever the vehicle is turned on, Lane Keeping Assist always turn on. The grey  indicator light illuminates on the cluster. When Lane Keeping Assist is on, press and hold the Lane Driving Assist () button to turn off the function.
- Except Europe, Russia
With the vehicle ON, press and hold the Lane Driving Assist () button located on the steering wheel to turn on and off. When Lane Keeping Assist is on, the grey or green  indicator is on.
- When Lane Keeping Assist turns off, the  indicator turns yellow.

Information

- When Lane Keeping Assist is ready to operate, the  indicator turns gray on the cluster.
- When Lane Keeping Assist is operating, the  indicator turns green on the cluster.

Warning and control

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

Left/Right



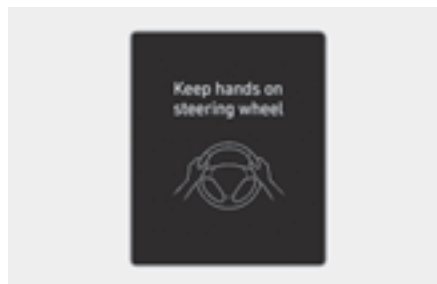
Lane Departure Warning

- To warn the driver that the vehicle is departing from the projected lane in front, the green  indicator light blinks on the cluster, the lane line blinks on the cluster depending on which direction the vehicle is veering, and an audible warning sounds.
- Lane Departure Warning operate under the following conditions, depending on recognition target:
 - Lane marking: Your vehicle speed is 45-200 km/h (28-120 mph)
 - Road edge: Your vehicle speed is 60-200 km/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 blinks on the cluster, and the steering wheel makes adjustments to keep the vehicle inside the lane.
- Lane Keeping Assist operate under the following conditions, depending on recognition target:
 - Lane marking: Your vehicle speed is 45-200 km/h (28-120 mph)
 - Road edge: Your vehicle speed is 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 appears on the cluster, and an audible warning sounds 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 cluster changes from gray to white.

Lane undetected



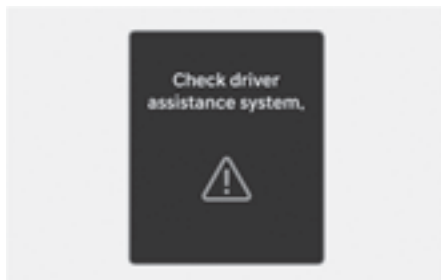
Lane detected



- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.
 - 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.
-

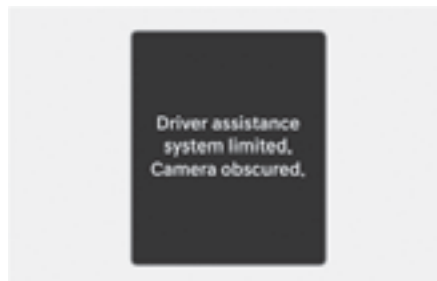
Lane Keeping Assist malfunction and limitations

Lane Keeping Assist malfunction



When Lane Keeping Assist is not working properly, the "**Check Driver Assistance system**" warning message and yellow Lane Keeping Assist (LKA) warning light appears on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

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 "**Driver Assistance system limited. Camera obscured.**" warning message and the master (triangle with exclamation mark) warning light or Lane Keeping Assist (LKA) warning light appears on the instrument cluster.

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

If Lane Keeping Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message 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 tollgate, 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)
- Driving on the left or right side of the median bus lane or on the median bus lane

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 and drive dangerously.
- The operation of Lane Keeping Assist can be canceled or not work properly depending on road conditions and surroundings. Always be cautious while driving.
- Refer to “Limitations of Lane Keeping Assist” 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 appears 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:
 - Within a certain period of time after turning on or off the turn signal or hazard warning flasher.
 - 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 or above operating conditions.
 - The vehicle makes sudden lane changes.
 - The vehicle brakes suddenly.

WARNING

Loading in excess of the maximum load allowance or concentrated loading at one point in the cargo compartment can reduce the vehicle's driving stability, which can in turn reduce the effectiveness of Lane Keeping Assist.

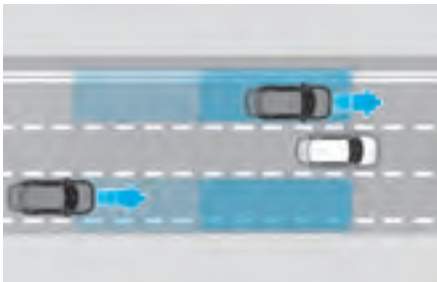
Blind-Spot Collision-Avoidance Assist (BCA)

 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.

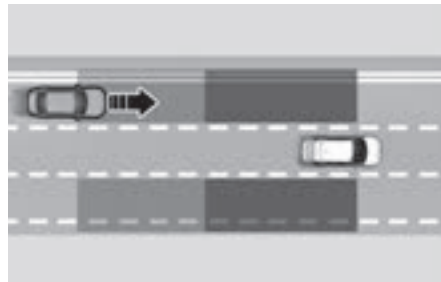
Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is in the blind spot.



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.

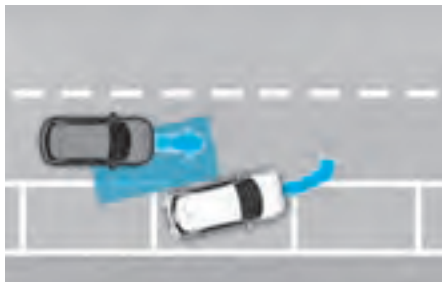
Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.



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



[A] Rear corner radar

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



CAUTION

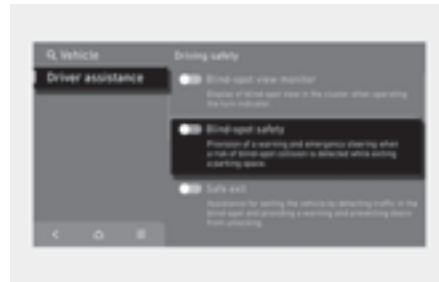
Take the following precautions to maintain optimal performance of the detecting sensor:

- 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 cluster, Blind-Spot Collision-Avoidance Assist may not operate properly. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- If the rear corner radars have been replaced or repaired, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.

- 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 qualified products.
- 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.

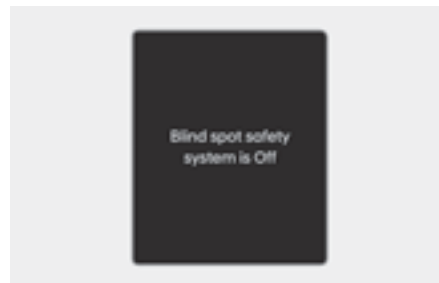
Blind-Spot Collision-Avoidance Assist settings

Blind-spot safety



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety > Blind-spot safety** in the infotainment system to set whether to use each function.

- If “**Blind-Spot safety**” is selected, Blind-Spot Collision-Avoidance Assist warns the driver with a warning message, an audible warning depending on the collision risk levels. Braking assist is 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 blinks 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.
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Blind-Spot Collision-Avoidance Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Information

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

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

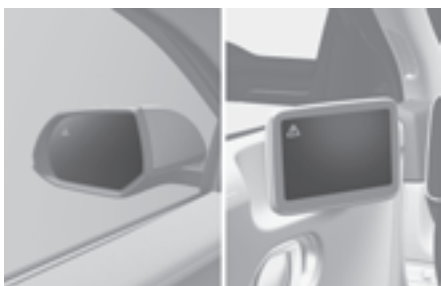
- **Warning Volume:** The warning volume can be adjusted.
- **Haptic warning:** The steering wheel vibration can be set.
- **Driving Safety Priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
- The **Warning volume** and **Haptic warning** cannot be turned off at the same time. When one of the warnings is turned off the other is activated.

Blind-Spot Collision-Avoidance Assist operation

Driving-Warning



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.
- 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.

Information

If the driver's seat is on the left side, the collision warning may occur when you turn left. Maintain a proper distance with the vehicles in the left lane. If the driver's seat is on the right side, the collision warning may occur when you turn right. Maintain a proper distance with the vehicles in the right lane.

The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

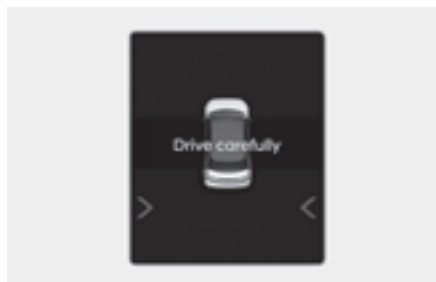
Collision-avoidance assist (while parallel parking exit)



- 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.
- 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 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 appears 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 steering and braking performance will operate properly.
 - 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, animals, objects, etc. It may cause serious injury or death.
-

WARNING

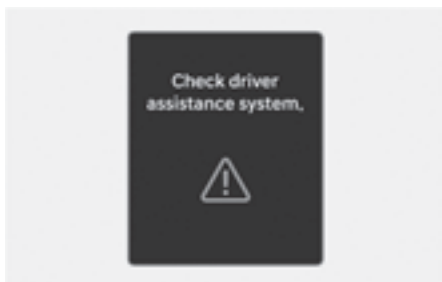
The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

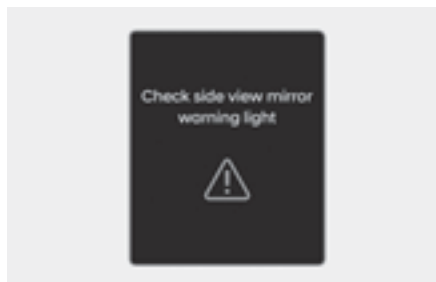
- The ESC (Electronic Stability Control) warning light is on
 - ESC (Electronic Stability Control) is engaged in a different function
-

Blind-Spot Collision-Avoidance Assist malfunction and limitations

Blind-Spot Collision-Avoidance Assist malfunction

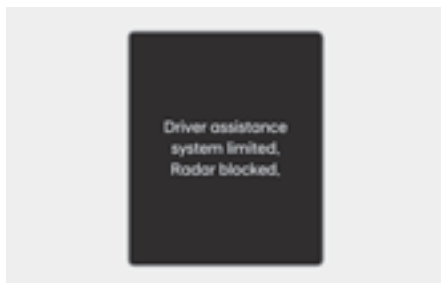


When Blind-Spot Collision-Avoidance Assist is not working properly, the "**Check Driver Assistance system.**" warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be 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 appear on the instrument cluster. If this occurs, we recommend that your vehicle be 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 "**Driver Assistance system limited. Radar blocked.**" warning message will appear on the 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, we recommend that your vehicle be 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:

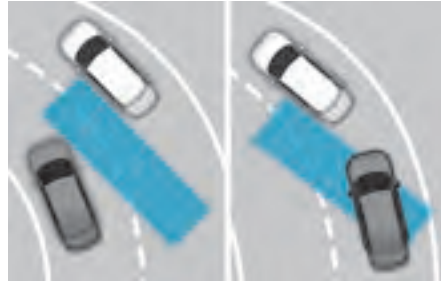
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The braking system has been modified
- The vehicle makes abrupt lane changes

i Information

For more information on the limitations of the front view camera, refer to "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 about 15 seconds after the vehicle is started, or the front view camera or rear corner radars are initialized.

Safe Exit Warning (SEW)

 if equipped



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



[A] Rear corner radar

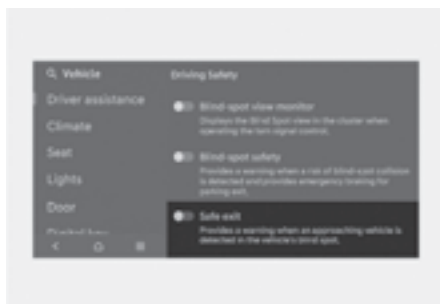
Refer to the illustration above for the detailed location of the detecting sensors.

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

Safe Exit Warning



With the vehicle on, select **Settings > Driver assistance > Driving safety > Safe exit** in the infotainment system to turn on Safe Exit Warning and deselect to turn off the function.

WARNING

- The driver should always be aware of his or her surroundings. If "Safe Exit" is deselected, Safe Exit Warning cannot assist you.
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Safe Exit Warning is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Information

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

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select 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.

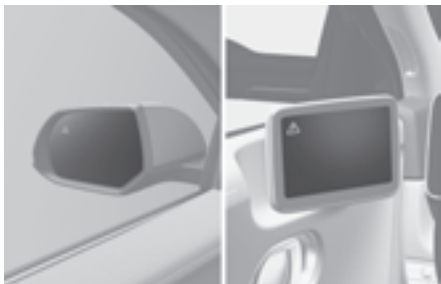
Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Safe Exit Warning operation

Safe Exit Warning

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 cluster, and an audible warning will sound.
- Safe Exit Warning will warn the driver when your vehicle speed is below 3 km/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:

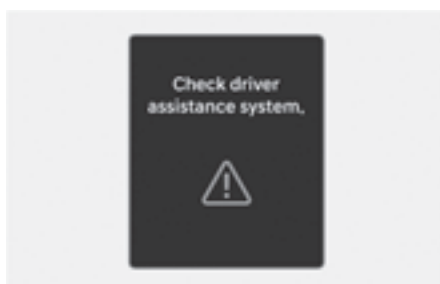
- For your safety, change the Settings after parking the vehicle at a safe location.
 - If any other system's warning message appears or audible warning is generated, Safe Exit Warning's warning message may not be displayed and audible warning may not be generated.
 - You may not hear the warning sound of Safe Exit Warning if the surrounding is noisy.
 - Safe Exit Warning does not operate in all situations or 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 occurs while exiting the vehicle. Always check the surroundings before you exit the vehicle.
-

i Information

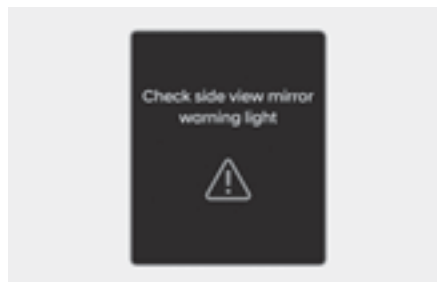
- After the vehicle is turned off, Safe Exit Warning operates for about 3 minutes, but turns off immediately if the doors are locked.
- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

Safe Exit Warning malfunction and limitations

Safe Exit Warning malfunction

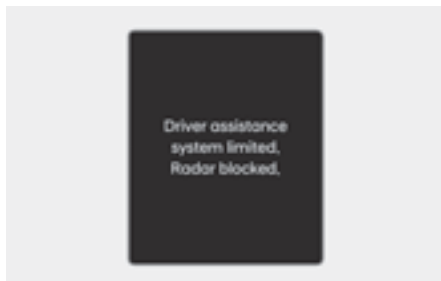


When Safe Exit Warning is not working properly, the "**Check Driver Assistance system.**" warning message will appear on the cluster for several seconds, and the master warning light (⚠) will appear on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the "**Check side view mirror warning light**" warning message will appear on the cluster for several seconds, and the master warning light (⚠) will appear on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit Warning 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 Safe Exit Warning.

If this occurs, the "**Driver Assistance system limited. Radar blocked.**" warning message will appear on the 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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the 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

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

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

Safe Exit Assist (SEA)

 if equipped



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



When the electronic child safety lock () button is in the LOCK position and an approaching vehicle from the rear area is detected, the electronic child safety lock button will not unlock even if the driver presses the button to prevent the rear doors from opening.

CAUTION

- Warning timing may vary depending on the speed of the approaching vehicle.
- Do not use Safe Exit Assist instead of the electronic child safety lock button. To protect rear seat passengers, use the electronic child safety lock button. For more information on, refer to the "Door locks" section in chapter 5.

Detecting sensor



[A] Rear corner radar

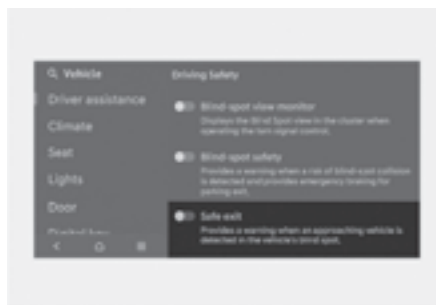
Refer to the picture above for the detailed location of the detecting sensors.

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 Assist settings

Safe Exit



With the vehicle on, select **Settings > Driver assistance > Driving safety > Safe exit** from the Settings menu to turn on Safe Exit Assist and deselect to turn off the function.

WARNING

- The driver should always be aware of their surroundings. If "**Safe Exit**" is deselected, Safe Exit Assist cannot assist you.
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Safe Exit Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Information

If the vehicle is restarted, Safe Exit Assist will maintain the previous setting.

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning volume:** The warning volume can be adjusted.
- **Driving safety priority:** Your vehicle lowers all other audio volumes when the Driver Assistance system sounds a warning.

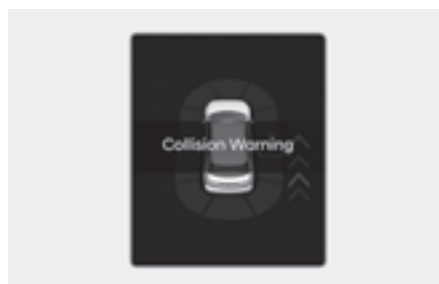
i Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Safe Exit Assist operation

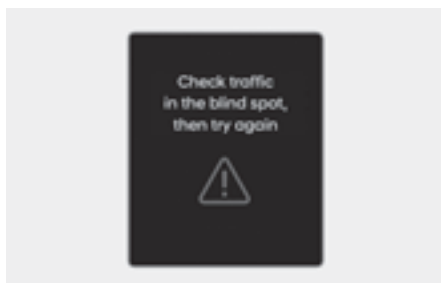
Safe Exit Assist

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 appears on the instrument cluster, and an audible warning sounds.
- Safe Exit Warning will warn the driver when your vehicle speed is below 3 km/h (2 mph), and the speed of the approaching vehicle from the rear is above 6 km/h (4 mph).

Safe Exit Assist linked with Electronic child safety lock



- When Electric child safety lock is operating and an approaching vehicle from the rear area is detected, the rear doors cannot be unlocked even if the driver tries to unlock the rear doors using the electronic child safety lock button. The warning light on the side view mirror will blink and the **"Check traffic in the blind spot, then try again"** warning message will appear on the instrument cluster.
- Safe Exit Assist will warn the driver when vehicle speed is below 3 km/h (2 mph) and the speed of the approaching vehicle from the rear is above 6 km/h (4 mph).

i Information

For more information on electric child safety lock (🔒) button, refer to the "Electronic child safety lock" section in chapter 5.

CAUTION

If the driver presses the electronic child lock (🔒) button again within 10 seconds after the warning message appears, Safe Exit Assist judges that the driver has unlocked the doors acknowledging the rear status. The electronic child safety lock will turn off (button indicator OFF) and the rear doors will unlock. Always check the surroundings before turning off the electronic child safety lock button.

i Information

If a rear door is opened from the outside, it will open regardless of Safe Exit Assist operation.

WARNING

Take the following precautions when using Safe Exit Assist:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message appears or an audible warning is generated, Safe Exit Assist warning message may not be displayed and an audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Assist if the surroundings are noisy.
- Safe Exit Assist does not operate in all situations and cannot prevent all collisions.

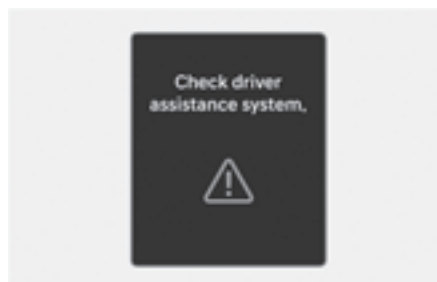
- Safe Exit Assist may warn the driver late or may not warn the driver depending on the road and driving conditions. Always check vehicle surroundings.
- The driver and passengers are responsible for collisions that occur while exiting the vehicle. Always check the surroundings before you exit the vehicle.
- Never deliberately test Safe Exit Assist. Doing so may lead to serious injury or death.

i Information

- After the engine is turned off, Safe Exit Assist 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 Assist malfunction and limitations

Safe Exit Assist malfunction

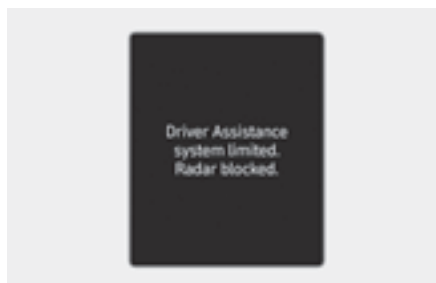


When Safe Exit Assist is not working properly, the “**Check Driver Assistance system.**” warning message appears on the instrument cluster for several seconds, and the master (⚠) warning light illuminates on the instrument cluster. If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the “**Check outside mirror warning icon**” warning message appears on the instrument cluster for several seconds, and the master (⚠) warning light illuminates on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit 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 Safe Exit Assist.

If this occurs, the “**Driver Assistance system limited. Radar blocked.**” warning message appears on the cluster display. for several seconds, and the master (⚠) warning light illuminates on the instrument cluster. But, it is not a malfunction.

Safe Exit Assist operates properly when such foreign material or trailer, etc., is removed, and then the vehicle is restarted.

If Safe Exit Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

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

CAUTION

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

Limitations of Safe Exit Assist

Safe Exit Assist 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)”.

WARNING

- Safe Exit Assist may not operate properly with interference from strong electromagnetic waves.
- Safe Exit Assist may not operate for about 3 seconds after the vehicle is started, or the rear corner radars are initialised.
- If the vehicle is turned off and restarted while the radar is blocked or malfunctioned, the condition is maintained. Therefore, Safe Exit Assist 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 the Driving Assist (DA) button at the desired speed. The Speed Limit (LIMIT) indicator will appear on the 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 5 (multiple of 10 in km/h) at first, and then increase or decrease by 10 km/h (5 mph).



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

If you would like to drive over the preset speed limit, depress the accelerator pedal beyond the pressure point to activate the kickdown function.

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



i Information

When the accelerator pedal is not depressed beyond the pressure point, vehicle speed will maintain within the speed limit.

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 (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 cluster.

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

Turning off Manual Speed Limit Assist



Press the Driving Assist () button to turn Manual Speed Limit Assist off. The Speed Limit () indicator will go off.

Always press the Driving Assist () button to turn Manual Speed Limit Assist off when not in use.

WARNING

Take the following precautions when using Manual Speed Limit Assist:

- Always set the vehicle speed to the speed limit in your country.
- Keep Manual Speed Limit Assist off when the function is not in use, to avoid inadvertently setting a speed. Check that the 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)

 if equipped

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 your vehicle is equipped with a navigation system, the navigation software 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 infotainment system manual.

Detecting sensor



[A] Front view camera

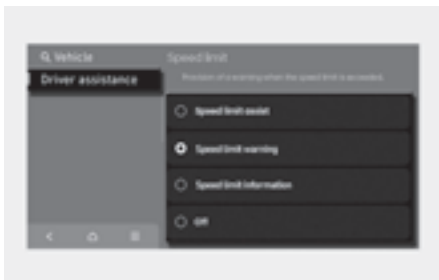
Refer to the illustration above for the detailed location of the detecting sensor.

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



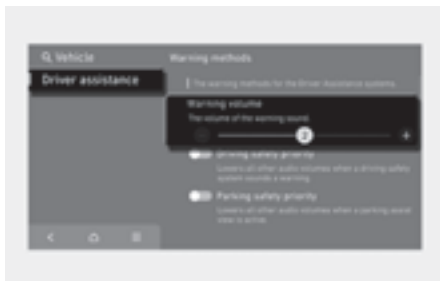
With the vehicle on, select or deselect **Settings > Vehicle > Driver assistance > Speed limit** from the infotainment system to set whether to use each function.

- **Select country:** When the navigation system is not available, you can manually select the country to set the speed limit.
- **Speed limit assist:** Intelligent Speed Limit Assist will inform the driver of speed limit and additional road signs, and warn the driver if the vehicle speed is faster than the speed limit. 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.
- **Speed limit warning:** 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.
- **Off:** Intelligent Speed Limit Assist will turn off. The $\ominus$ warning light is displayed.

WARNING

- When the vehicle is restarted, Intelligent Speed Limit Assist will always turn on. However, if "Off" and the vehicle is restarted, "**SLW (Speed Limit Warning)**" is selected.
- For your safety, only change the Settings after parking the vehicle at a safe location.
- Intelligent 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.

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** from the infotainment system to select following:

- **Warning volume:** The warning volume can be adjusted.
- **Speed Limit Warning Sound:** The Speed Limit warning sound can be turned on or off.
- **Speed Limit Change Notification Sound:** The Speed Limit change notification sound can be turned on or off.

i Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
- Press and hold the  button on the steering wheel to turn on or off the Speed Limit warning sound.

WARNING

When the vehicle is restarted, Speed Limit Warning Sound will always turn on.

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".

Displaying speed limit



Speed limit information is displayed on the instrument cluster.

i Information

- If speed limit information of the road cannot be recognized, '---' sign will be displayed. Please refer to Limitations of Intelligent Speed Limit Assist section, 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.
- Supplementary sign displayed under the speed limit or overtaking restriction sign means the conditions under which the signs must be followed. If the supplementary sign is not recognized, it will be displayed as blank.

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

Warning overspeed



When driving at a speed higher than the displayed speed limit, the red speed limit indicator will blink and warning sounds.

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 (if equipped with navigation)



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 the 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 (45 mph) or higher. When the function is active, the cruising speed on the instrument cluster appears in green.

WARNING

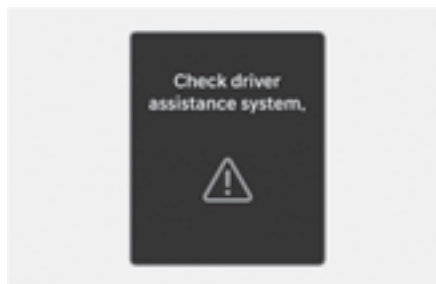
- Even after changing the set speed according to the speed limit of the road, the vehicle can still be driven over the speed limit. If necessary, depress the brake pedal to reduce your driving speed.
- If the speed limit of the road is under 30 km/h (20 mph), the set speed change function will not work.
- 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 state, Intelligent Speed Limit Assist may not operate properly.

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.

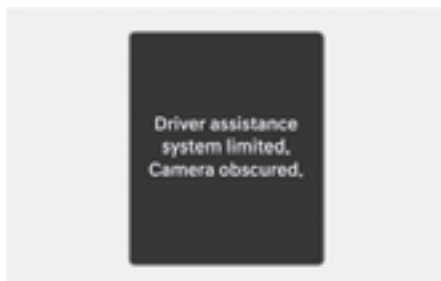
Intelligent Speed Limit Assist Malfunction and Limitations

Intelligent Speed Limit Assist malfunction



When Intelligent Speed Limit Assist is not working properly, the "**Check driver assistance system.**" warning message will appear on the instrument cluster for several seconds, and the master () warning light and speed limit () warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be 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 "**Driver assistance system limited. Camera obscured.**" warning message and the speed limit (⊖) 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, we recommend that your vehicle be 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 illustration 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 illustrations 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 is 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
- Driving on a newly opened road
- Driving through a construction area
- 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 to 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)

 if equipped

Driver Attention Warning

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



[A] 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.

See the illustration 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 **Settings > Vehicle > Driver assistance > DAW (Driver Attention Warning)** and then enable **Leading vehicle departure alert** in the infotainment system to set whether to use each function.

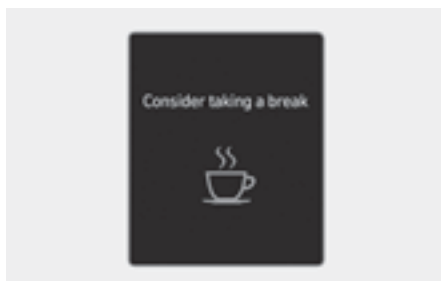
- If 'Leading Vehicle Departure alert' is selected, the function will inform the driver when a detected vehicle in front departs from a stop.

Driver Attention Warning operation

Inattentive Driving Warning

The basic function of Driver Attention Warning is to warn the driver "**Consider taking a break**".

Taking a break



- The "**Consider taking a break**" message will appear and the inattentive driving (☹️) warning light will blink on the cluster with a warning 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.

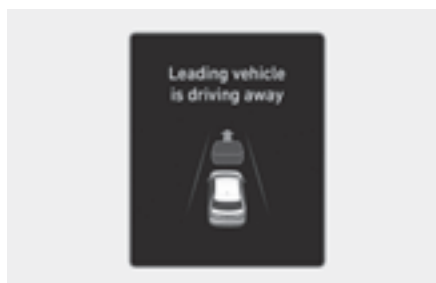
⚠️ WARNING

For your safety, 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 does not 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 appears 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

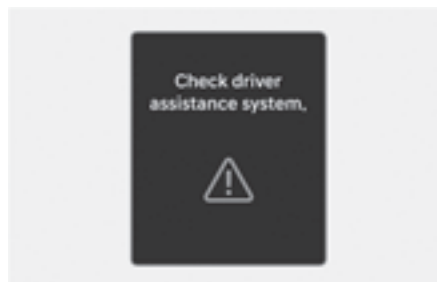
- Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

Information

The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

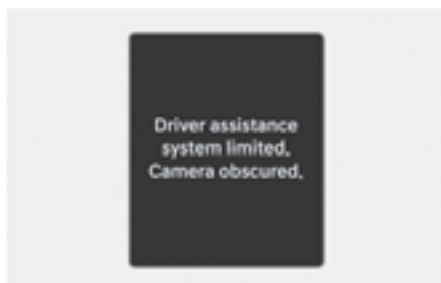
Driver Attention Warning malfunction and limitations

Driver Attention Warning malfunction



When Driver Attention Warning is not working properly, the '**Check Driver Assistance system.**' warning message will appear on the cluster for several seconds, and the master () warning light and the inattentive driving () warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be 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 warning message, the master (⚠) warning light, and the inattentive warning (⚠) warning light 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, we recommend that your vehicle be 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.

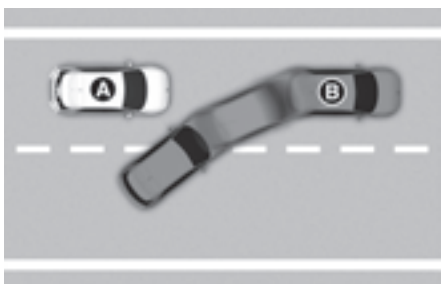
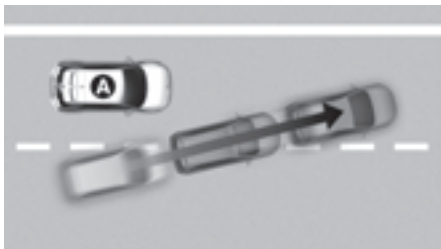
Limitations of Driver Attention Warning

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
- Lanes are blurred or erased

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 Vehicle 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



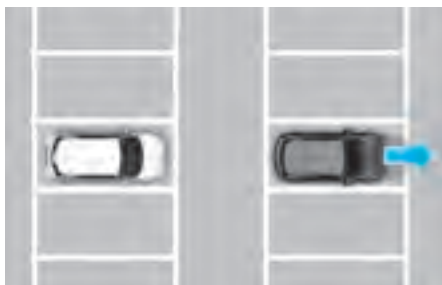
If the vehicle in front abruptly departs, Leading Vehicle Departure Alert may not operate properly.

- 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 tollgate 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 about 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.

Forward Attention Warning (FAW)

 if equipped

Forward Attention Warning uses the in-cabin camera to help prevent the driver from being distracted while driving with an audible warning and warning light.

Detecting sensor



[A] In-cabin camera

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

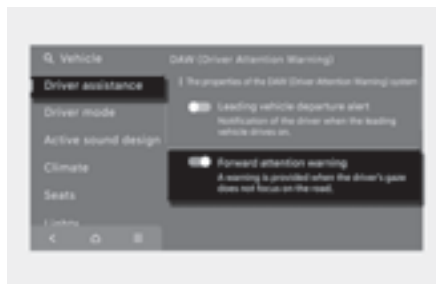
CAUTION

Always keep the in-cabin camera in good condition to maintain optimal performance of Forward Attention Warning.

Forward Attention Warning settings

Forward Attention Warning

With the vehicle on, select or deselect **Settings > Vehicle > Driver assistance > DAW (Driver Attention Warning) > Forward attention warning** in the infotainment system to set whether to use the function.



If **Forward attention warning** is enabled, the function warns the driver when the driver's gaze is not focused on the road.

Information

- When the vehicle is restarted, Forward Attention Warning maintains the last setting.

Forward Attention Warning operation

Operating conditions

Forward Attention Warning will operate when the following conditions are satisfied:

- Vehicle speed is above 1 mph (1 km/h)
- The gear is in D (Drive) or N (Neutral)

Forward Attention Warning

Forward Attention Warning determines whether the driver is focused on the road depending on information, such as the amount of time the driver is looking elsewhere, the amount of time the eyes are closed, etc. If Forward Attention Warning judges the driver is not focused, an audible warning sounds for about 1 second, and the  warning light appears on the cluster until off conditions are met.

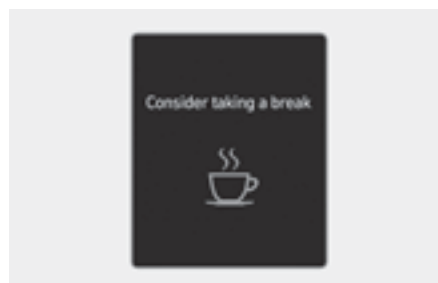
The warning comes on:

- When the driver's gaze is not focused on the road continuously for 3 seconds while driving above 20 km/h (12 mph).
- When the driver's gaze is not focused on the road for 10 seconds or more in total during a 30 seconds time span while driving above 20 km/h (12 mph).
- When the driver's eyes are closed for over 2 seconds or more while driving above 10 km/h (6 mph).

The warning goes off:

When the driver looks forward continuously for over 2 seconds.

Driver Drowsiness Attention Warning



The Driver Drowsiness Attention Warning monitors your eyes while driving. When the driver's eyes are constantly closed or not facing forward frequently, the Driver Drowsiness Attention Warning recommends a break to help with safe driving. The **“Consider taking a break”** warning message and the  warning light appears on the cluster, and an audible warning sounds until the off conditions are met.

The warning comes on:

When the driver's eyes are constantly closed or not facing forward frequently while driving above 10 km/h (6 mph).

The warning goes off:

When the driver's gaze is focused on the road.

WARNING

If any other system's warning message is displayed or audible warning is generated, Forward Attention Warning's warning message may not be displayed and an audible warning may not be generated.

CAUTION

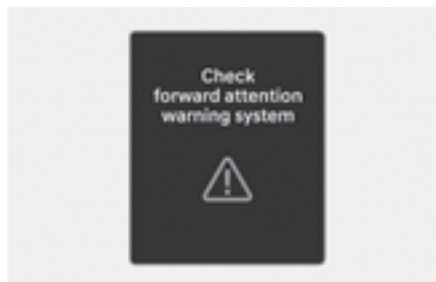
- Forward Attention Warning may warn the driver even though the driver is focused on the road because of driving style and driving pattern.
 - Forward Attention Warning is a supplemental function and may not determine whether the driver is distracted while driving.
 - The driver is responsible for safe driving and must focus on the road.
-

Information

- Forward Attention Warning does not transmit recorded videos outside of the vehicle or store the video.
 - The Warning Method for Forward Attention Warning can not be changed.
-

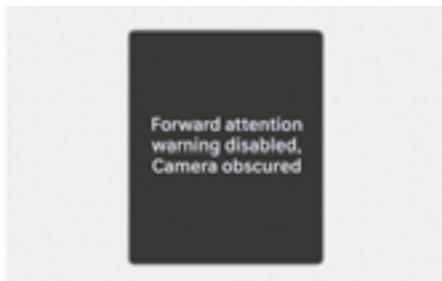
Forward Attention Warning malfunction and limitations

Forward Attention Warning malfunction



When there is an object right in front of the in-cabin camera or between the driver and the camera for a certain period of time Forward Attention Warning does not operate properly. If this occurs, the **"Forward attention warning disabled. Camera obscured"** warning message appears on the instrument cluster for several seconds, the  warning light illuminates on the instrument cluster, and an audible warning sounds until the Forward Attention Warning is working properly.

Forward Attention Warning disabled



When there is an object right in front of the in-cabin camera or between the driver and the camera for a certain period of time, Forward Attention Warning does not operate properly, and the **"Forward Attention Warning disabled. Camera obscured"** warning message appears on the instrument cluster, and an audible warning sounds.

If the object is removed or the camera is able to detect the driver's face, the function will operate normally. If Forward Attention Warning does not operate properly after the object is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

CAUTION

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

Information

- Two red lights may appear on the camera in the following conditions when:
 - The outside brightness is dim or driving at night
 - The vehicle drives inside a building, such as a basement parking lot, garage or tunnel
 - The camera case is partially broken



WARNING

Do not look toward the camera within 8 in. (20 cm) for longer than a minute.

Limitations of Forward Attention Warning

Forward Attention Warning may not operate properly, or it may operate unexpectedly under the following circumstances:

- The driver is wearing sunglasses, special glasses, infrared cutoff glasses, refracting glasses or thick glasses
- The driver has heavy eye makeup (eyeliner, mascara, color makeup, false eyelash) or eye piercing
- The driver's view is blocked by his/her hair, hat, etc.
- The driver is winking or wearing an eye patch on one eye
- The driver's face is covered partially by a mask, muffler, etc.
- The driver's view is blocked by incoming light from outside of the vehicle
- Light from outside, sunlight or infrared LED light of the camera is reflected by glasses or sunglasses
- The driver turns or lowers his/her head so that the face or an eye is hidden from the camera
- The driver shakes his/her head up and down, or adverse road conditions cause excessive vehicle vibrations while driving
- The driver is improperly positioned in the driver's seat so that the driver's face is not detected
- The driver is too tall or short
- The camera is blocked by the driver's grip on the steering wheel
- More than two people are looking at the instrument cluster simultaneously from the driver's seat
- The driver's eyes are narrowed due to laughing or sun glare
- Misrecognize a picture or mannequin that has a similar size of the driver's face
- There are other devices using infrared light in the vehicle

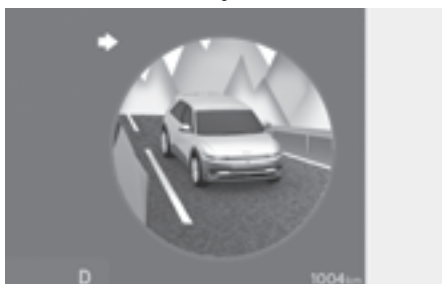
Blind-Spot View Monitor (BVM)

 if equipped

Left



Right



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)

See the illustration above for the detailed location of the detecting sensors.

Blind-Spot View Monitor settings

Setting features

With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Driving safety** and then enable **Blind-spot view monitor** in the infotainment system to turn on the Blind-Spot View Monitor feature.

Blind-Spot View Monitor operation

Operating switch



Turn signal switch

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

Blind-Spot View Monitor

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 cluster display flickers, or the camera image does not display properly, we recommend that your vehicle be 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.

Cruise Control (CC)

 if equipped



(1) Cruise indicator

(2) Set speed

Cruise Control will allow you to drive at speeds above 30 km/h (20 mph) without depressing the accelerator pedal.

Cruise Control operation

Setting speed

1. Accelerate to the desired speed, which must be more than 30 km/h (20 mph).
2. Press the Driving Assist () button at the desired speed. The set speed and Cruise () indicator will illuminate on the instrument cluster.



3. Release the accelerator pedal.

Vehicle speed will maintain the set speed even when the accelerator pedal is not depressed.

Information

- The vehicle may slightly slow down or speed up while driving uphill or downhill.
- The Driving Assist button symbol may vary depending on your vehicle option.

To increase 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 to the nearest multiple of ten (multiple of five in mph) at first, and then 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.

To decrease 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 to the nearest multiple of ten (multiple of five in mph) at first, and then 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.

Accelerating temporarily

If you want to speed up temporarily when Cruise Control is on, depress the accelerator pedal.

To return to the set speed, take your foot off the accelerator pedal.

If you push the + switch up or - switch down at increased speed, the set speed will be set to the current increased speed.

To temporarily pausing Cruise Control



Cruise Control will be paused when:

- Depressing the brake pedal.
- Pushing the II button.
- Shifting the gear to N (Neutral).
- Decreasing vehicle speed to less than about 30 km/h (20 mph).
- Increasing vehicle speed to more than about 190 km/h (120 mph)
- Operating the electronic parking brake system (EPB).
- ESC (Electronic Stability Control) is operating.

The set speed will turn off but the Cruise (CRUISE) indicator will stay on.

NOTICE

If Cruise Control pauses during a situation that is not mentioned, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Resuming Cruise Control

Operate the +, - or II 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 II switch, vehicle speed will resume to the preset speed.

The vehicle speed must be above 30 km/h (20 mph) for Cruise Control to resume.

! WARNING

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

Turning off Cruise Control

Press the Driving Assist (DRIVE ASSIST) button to turn Cruise Control off. The Cruise (CRUISE) indicator will go off.

Always press the Driving Assist (DRIVE ASSIST) button to turn Cruise Control off when not in use.

i Information

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

WARNING

Take the following precautions when using Cruise Control:

- Always set the vehicle speed to the speed limit in your country.
- Keep Cruise Control off when the system is not in use, to avoid inadvertently setting a speed. Check that the Cruise ( CRUISE) indicator is off.
- Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and should always be aware of unexpected and sudden situations from occurring.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.
- Do not use Cruise Control when it may be unsafe to keep the vehicle at a constant speed:
 - When driving in heavy traffic, or when traffic conditions make it difficult to drive at a constant speed
 - When driving on rainy, icy, or snow-covered roads
 - When driving on hilly or windy roads
 - When driving in windy areas
 - When driving with limited view (possibly due to bad weather, such as fog, snow, rain and sandstorm)
- Do not use Cruise Control when towing a trailer.

Smart Cruise Control (SCC)

 if equipped

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 helps with accelerating.

Based on driving style

 if equipped

Smart Cruise Control will operate based on the driver's driving style, such as inter-vehicle distance, acceleration, reaction speed.

Detecting sensor



- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)

The front view camera and front radar, front corner radar (if equipped) are used as a detecting sensor to detect front vehicles.

See the illustration above for the detailed location of the detecting sensor.

CAUTION

Always keep the front view camera and front radar, front corner radar (if equipped) 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, if **Vehicle > Driver Assistance > Driving Convenience > SCC (Smart Cruise Control)** is selected in the infotainment system, you can change the vehicle distance, the acceleration, and the reaction speed manually.

Based on driving style

 if equipped



With the vehicle on, if **Vehicle > Driver Assistance > Driving Convenience > SCC (Smart Cruise Control) > Based on Driving Style** is selected in the infotainment system, Smart Cruise Control will operate based on the driver's driving style, such as vehicle distance, acceleration, reaction speed.

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, 'Driving Style Setting' 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.
- Even if the steps of the driver's driving style such as vehicle distance, acceleration, reaction speed displayed when the Base on Driving Style is activated or deactivated are the same, the driving style to be controlled may be differently.

Smart Cruise Control operation

Operating conditions

Basic function

Smart Cruise Control operates when the following conditions are satisfied.

- The gear is in D (Drive)
- 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.

- Your vehicle is in power down mode (⚡ indicator on)
- The driver's door is opened
- 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)

i 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 (left-hand drive) or turned on to the right (right-hand drive) 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 (left-hand drive) or turned on to the right (right-hand drive) while there is a vehicle ahead, the vehicle may accelerate temporarily. Pay attention to the road conditions at all times.
- Regardless of the driving direction in your country, Overtaking Acceleration Assist will operate when the conditions are satisfied. When using the function in countries with different driving direction, always check 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 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



Press the button repeatedly to cycle through the headway settings from **Distance 4** → **Distance 3** → **Distance 2** → **Distance 1** → **Distance 4**.

If you drive at 90 km/h (56 mph), the distance is maintained as follows:

- Distance 4: about 52.5 m (172 ft.)
- Distance 3: about 40 m (130 ft.)
- Distance 2: about 32.5 m (106 ft.)
- Distance 1: about 25 m (82 ft.)

i Information

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 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 up 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 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 cancelling Smart Cruise Control



Press the **II** 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 II↻ switch.

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

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

WARNING

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

Turning off Smart Cruise Control



To turn Smart Cruise Control off, press the Driving Assist (DA) button.

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.

CAUTION

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

Display and Control

You can see the status of the Smart Cruise Control operation in the Driving Assist view on the cluster. Refer to "Cluster display" 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 (gray)
 - (2) Previous set speed (gray)
 - (3) Whether there is a vehicle ahead (gray) (if equipped)

i Information

- The distance of the front vehicle on the cluster is displayed according to 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 cluster type or theme selected in the infotainment system.

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 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.

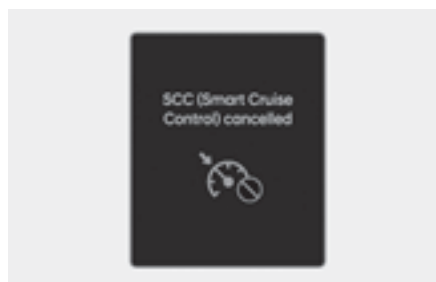
Based on driving style operation

 if equipped



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

Automatic cancellation of Smart Cruise Control



Smart Cruise Control will be temporarily canceled automatically when:

- 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 **"SCC (Smart Cruise Control) canceled"** warning message will appear on the cluster, and an audible warning will sound to warn the driver.

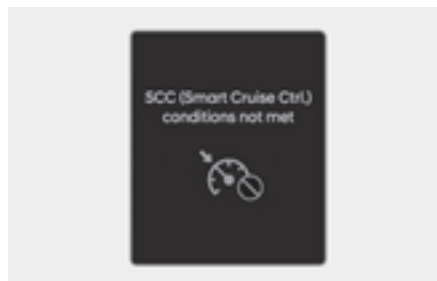
i Information

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



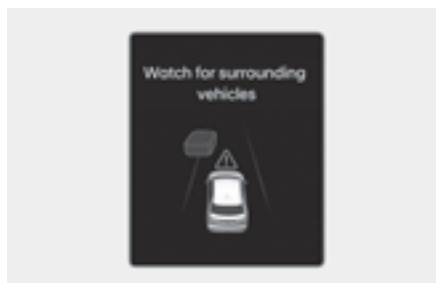
If the Driving Assist button, + switch, - switch or  switch is operated when Smart Cruise Control operating conditions are not satisfied, the **"SCC (Smart Cruise Ctrl.) conditions not met"** will appear on the cluster, and an audible warning will sound.

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 has 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 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, Forward Collision-Avoidance Assist will operate 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.

For more information on this function, refer to "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

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.

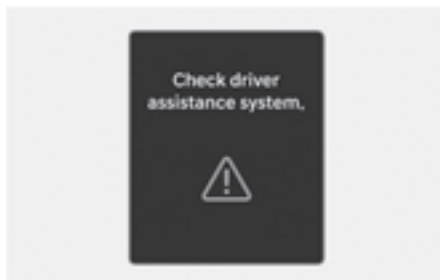
- If any other system's warning message appears or warning sound is generated, Smart Cruise Control warning message may not be displayed and warning sound may not be generated.
 - You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
 - The vehicle manufacturer 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.
 - The vehicle must be driven sufficiently to reflect the actual driving style of the driver, such as inter-vehicle distance, acceleration and reaction speed.
 - Based on Driving style does not reflect whether the driver has changed when determining the driver's driving style.
 - 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.
-

i Information

- Smart Cruise Control may not operate for few 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.
 - Based on Driving Style may not reflect the driver's driving style or driving conditions that affects driving safety.
 - Based on Driving Style does not reflect any other driving style other than inter-vehicle distance, acceleration and reaction speed.
-

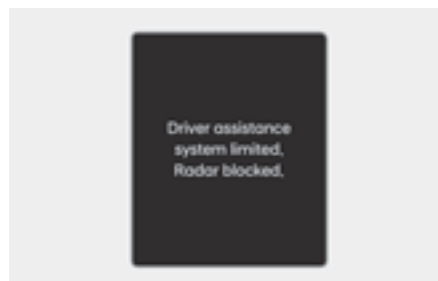
Smart Cruise Control malfunction and limitations

Smart Cruise Control malfunction



When Smart Cruise Control is not working properly, the "**Check Driver Assistance system.**" warning message and the master (⚠) warning light will appear on the instrument cluster. We recommend that your vehicle be 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 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 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 (or motorway) interchange or tollgate
- 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

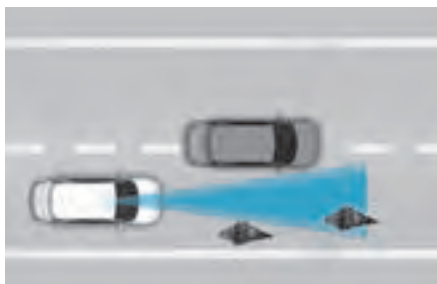


[A] Your vehicle

[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:

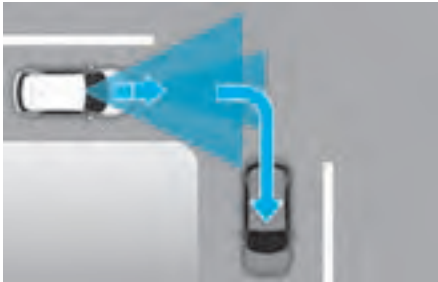
- Vehicles offset to one side
- Slow-moving vehicles or sudden decelerating vehicles
- Vehicles with higher ground clearance or vehicles carrying loads that stick out of the back of the vehicle
- Vehicles that has the front lifted due to heavy loads
- Vehicles within about 2 m (6 ft.) from your vehicle
- 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.
- 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
- When a vehicle ahead disappears at an intersection, your vehicle may accelerate.

Always pay attention to road and driving conditions while driving.

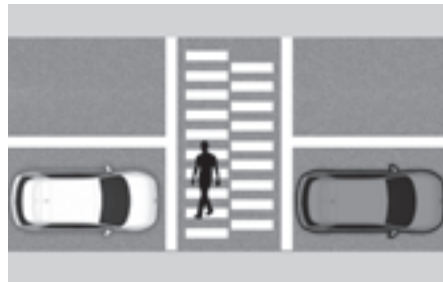


- When a vehicle in front of you merges out of the lane, Smart Cruise Control may not immediately detect the new vehicle that is now in front of you.

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.



Navigation-Based Smart Cruise Control (NSCC)

 if equipped

Navigation-based Smart Cruise Control can help drive at a certain speed according to the road conditions when driving on highways by using road information from the navigation system while Smart Cruise Control is operating.

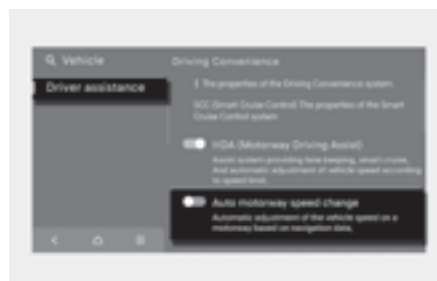
Information

- Navigation-based Smart Cruise Control is available only on certain highways.
- Navigation-based Smart Cruise Control operates on main roads of highways (or motorways), and does not operate on interchanges or junctions.
- Additional highways may be expanded by future navigation updates.

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 **Settings > Vehicle > Driver assistance > Driving Convenience > Highway Auto Speed Change** from the infotainment system to turn on Navigation-based Smart Cruise Control and deselect to turn off the function.

Information

When there is a problem with Navigation-based Smart Cruise Control, the function cannot be set in the infotainment system.

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

i Information

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

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
- 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
- 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.

Lane Following Assist (LFA)

+ if equipped

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

Detecting sensor



[A] Front view camera

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

See the illustration above for the detailed location of the detecting sensor.

⚠ CAUTION

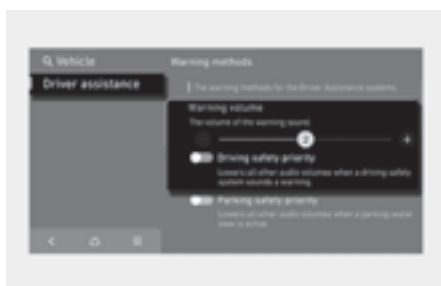
For more information on the precautions of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

Lane Following Assist settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Lane Following Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select 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 Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Lane Following Assist operation

Turning Lane Following Assist On/Off



With the vehicle on, shortly press the Lane Driving Assist button located on the steering wheel to turn on Lane Following Assist. The gray or green (⊖) indicator light will appear on the cluster.

Press the button again to turn off the function.

Lane Following Assist

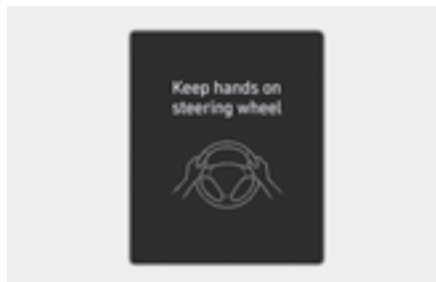


If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 180 km/h (110 mph), the green (Ⓢ) indicator light appears on the cluster, and Lane Following Assist helps center the vehicle in the lane by assisting the steering wheel.

CAUTION

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

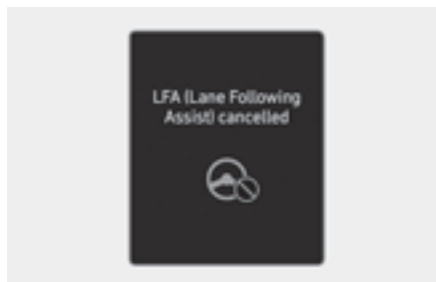
Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the "**Keep hands on steering wheel**" warning message will appear with a warning sound in stages.

First stage: Warning message

Second stage: Warning message (red steering wheel) with a warning sound



If the driver still does not have their hands on the steering wheel after the hands-off warning, the "**LFA (Lane Following Assist) canceled**" 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 you wear the gloves or 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.

i Information

- For more information on instrument cluster settings, refer to the “Cluster display” section in chapter 4.
- When both lane markings are detected, the lane lines on the cluster will change from gray to white.

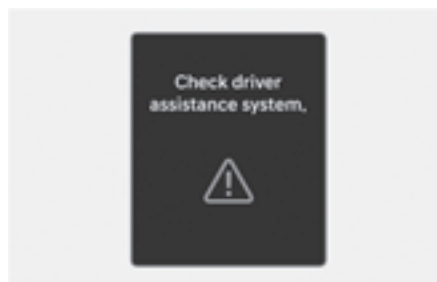
Lane undetected/detected



- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.
 - 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 Driver Assistance system.** warning message will appear on the instrument cluster for several seconds, and the master (⚠) warning light appears on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Lane Following Assist

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

***i* Information**

For more information on Lane Following Assist precautions, refer to the “Lane Keeping Assist malfunction and limitations” section in this chapter.

WARNING

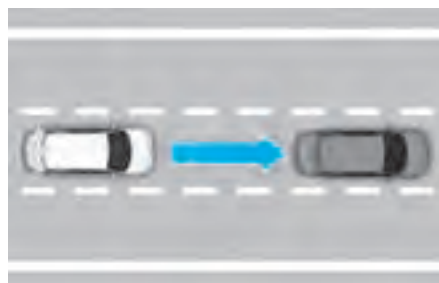
Loading in excess of the maximum load allowance or concentrated loading at one point in the cargo compartment can reduce the vehicle's driving stability, which can in turn reduce the effectiveness of Lane Following Assist.

Highway Driving Assist (HDA)

 if equipped

Highway Driving Assist

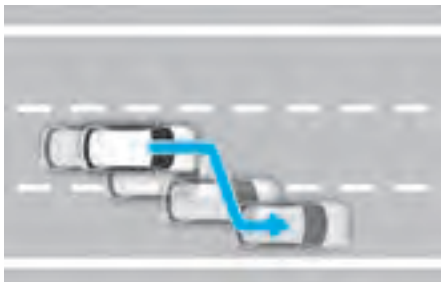
Highway Driving Assist helps maintain a set distance and speed from the vehicle ahead while driving on a highway main section and helps center the vehicle in the lane.



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.



Information

- Highway Driving Assist is available only on certain highways.
- Highway Driving Assist operates on main roads of highways, and does not operate on interchanges or junctions.
- Additional highways may be expanded by future navigation updates.

Detecting sensor



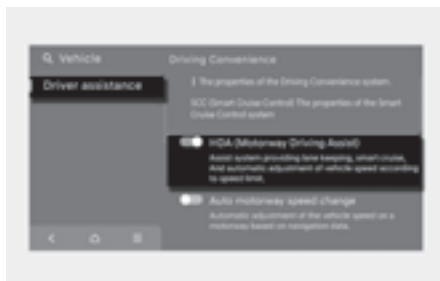
- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)
- [D] Rear corner radar (if equipped)

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 **Settings > Vehicle > Driver assistance > Driving Convenience > HDA (Motorway Driving Assist)** from the infotainment system to set whether to use each 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.

Basic function

If "**HDA (Motorway 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 "**Lane change assist (motorway)**" is selected, it helps the driver change lanes.

Information

- When "**HDA (Motorway Driving Assist)**" is deselected, the setting for "**Lane change assist (motorway)**" cannot be changed.
- If there is a problem with the functions, the settings cannot be changed. We recommend that your vehicle be 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

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Highway Driving Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning Method



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select 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, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Highway Driving Assist Operation

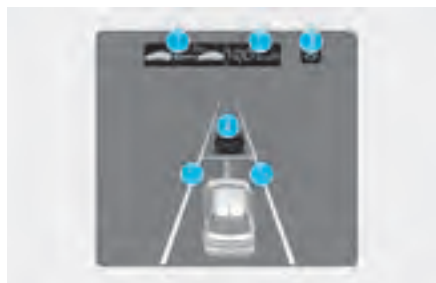
Basic function

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
 - Gray HDA: Standby state
 - White HDA blink: Accelerator depressed state
 - Not displayed : Off
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

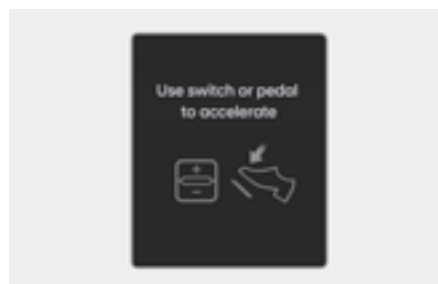
- For more information on the display refer to the "Smart Cruise Control (SCC)" and "Lane Following Assist (LFA)" sections in this chapter.
- The images and colors in the instrument cluster may differ depending on the instrument cluster type or theme selected from infotainment system.

Highway Driving Assist operation

Highway Driving Assist operates when:

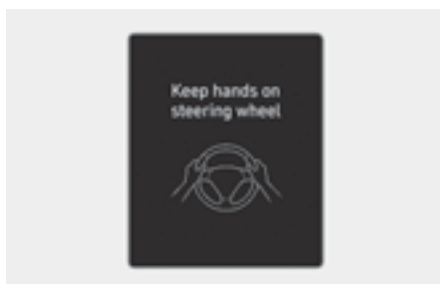
- Driving on the main road of highways, and turning on Highway Driving Assist by pressing the Driving Assist button
- Entering the main road of highways while Lane Following assist and Smart Cruise Control are operating

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 **II**  switch to start driving.

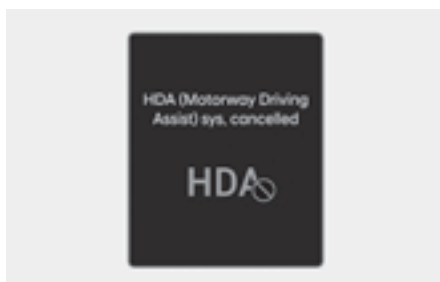
Hands-off warning



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.

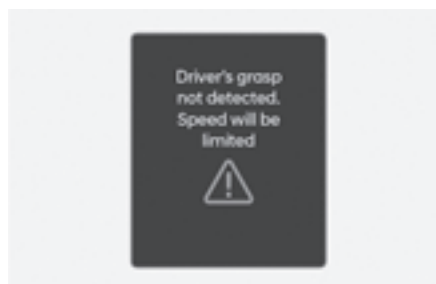
First stage: Warning message

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 will be automatically canceled.

Driving speed limit

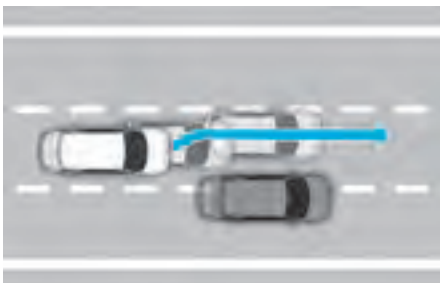


When Highway Driving Assist is canceled by the hands-off warning, The driving speed will be limited.

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 detected 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 a detected vehicle in both sides of the lane that are driving close to you, the function will not veer to the opposite side of the lane.

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.

i 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 operation in the Driving Assist view on the cluster. Refer to "Cluster display" section in chapter 4.

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

Displaying operating status



Highway Lane Change Assist ready to operate



1. Highway Lane Change Assist indicator()

- Green on : Ready state
- Green blink : Operating state
- Gray 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.

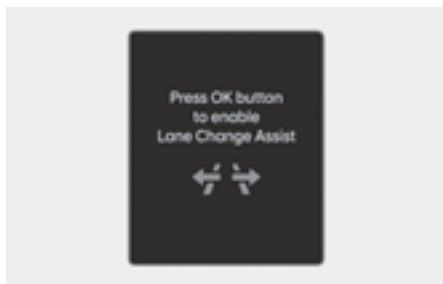
3. Green arrow and shade

- 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.

- Turn on Highway Driving Assist using the Driving Assist button or Lane Driving Assist button. "**Lane change assist (motorway)**" is also turned on and "**Press OK button to enable Lane Change Assist**" message appears on the cluster.

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 30 km/h (20 mph)
- Your vehicle speed is between 30-80 km/h (20-50 mph), a vehicle is detected in the rear area of your vehicle's left and right side lanes, and there is no risk of collision when changing a lane
- Hands-off warning is not displayed on the 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 a intersection or crosswalk ahead
 - 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 25 km/h (15 mph), the function will change to the standby state.
 - When your vehicle speed is between 30-80 km/h (20-50 mph), and a vehicle is not detected in the rear area of your vehicle's left and right side lanes, the function will change to the standby state.
 - If there is a risk of collision, the function will change to the standby state.
 - The images and colors in the cluster may differ depending on the cluster type or theme selected from the cluster.
-

⚠ 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 operating



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 (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

- 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 positioned at [B].

If 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 tollgate on the main road of the highway
- The road ahead ends without an interchange or junction
- Road with sharp curves
- Road with narrow lanes
- Road that is under construction

Highway Lane Change Assist cancel

The function will be canceled when:

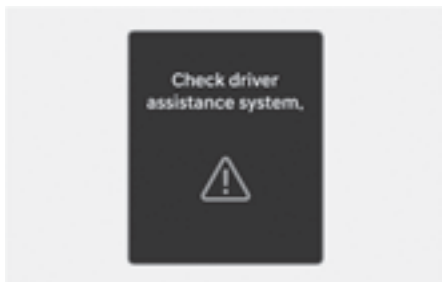
- The turn signal lever is positioned at [A] and it's released to the center (1) before the vehicle steps a lane line while Highway Lane Line Assist is operating.
- The turn signal lever is turned on in the opposite direction of lane change
- The steering wheel is steered sharply

WARNING

- While the function 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 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
 - Entering a road under construction
 - The target lane to make a lane change disappears
 - There is a problem with turn signal lamps
 - Highway Lane Change Assist function is off (The function turns off when the function is turned off, when the road changes to a one-way road, when there is an 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.)
 - When the function is in the ready state, and vehicle speed is below 25 km/h (15 mph), the function will change to the standby state.
 - When your vehicle speed is between 30-80 km/h (20-50 mph), and a vehicle is not detected in the rear area of your vehicle's left and right side lanes, the function will change to the standby state.
 - If there is a risk of collision, the function will change to the standby state.
 - 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



When Highway Driving Assist is not working properly, the "**Check driver assistance system.**" and "**Check lane change assist function**" warning message and the master (△) warning light appears on the instrument cluster. If this occurs, we recommend that your vehicle be 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.
- 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
- A trailer or towbar mounted carrier is installed

Limitation of Highway Driving Assist

Highway Driving Assist 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, voice recognition, etc.
- GPS signals are blocked in areas such as a tunnel

***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)" and Blind-Spot Collision-Avoidance Assist (BCA) section in this chapter.

Rear View Monitor (RVM)

 if equipped

Rear View Monitor shows the area behind the vehicle to assist you when parking or driving.

Detecting sensor

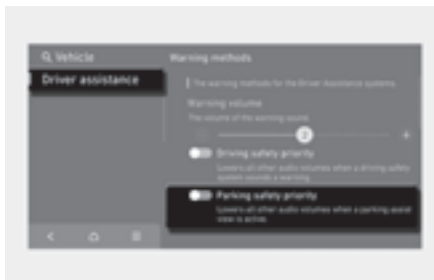


[A] Wide-rear view camera

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

Rear View Monitor settings

Warning Method



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

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

Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

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 by selecting **Settings > Display > Camera settings > Display contents** in the infotainment system while the vehicle is on.
- In the "Display Contents", you can change settings for **Extended Rear View Monitor** and **Rear View Parking Lines**.

Extend rear camera use

When the 'Extended Rear View Monitor' is selected, parking Guide Lines is displayed in the rear view.

Rear view reference 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 screen.

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 tailgate opening distance and the distance of 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), D (Drive) or N (Neutral) to turn on the Rear View Monitor.

Rear view



Operating conditions

- The gear is shifted to R (Reverse).
- The Parking/View button (1) is pressed while the gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.

Touch the Change View button (2) to select rear view or rear top view.

Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) or the Infotainment system screen button (3) is Pressed.
- The gear is in N (Neutral) or D (Drive) and the vehicle speed is above 10 km/h (6 mph).
- The previous button ◀ (4) is selected on the rear view menu.

i Information

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

Extended Rear View Monitor

The rear view will maintain showing on the screen to help you when parking.

Operating conditions

The gear is shifted from R (Reverse) to 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 while driving

The driver is able to check the rear view on the screen while driving, it is to assist with backing up.

Operating conditions

- The Parking/View button (1) is pressed, while the gear is in P (Park), N (Neutral) or D (Drive), and the vehicle speed is above 10 km/h (6 mph)

Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) is pressed again.
- One of the infotainment system screen button (3) is selected.
- The previous button  (4) is selected on the rear view menu.

When operating

If the gear is shifted to R (Reverse), when rear view while driving appears on the screen, the screen will change to rear view.

Rear top view



When you touch the icon (2), the top view is displayed on the screen and shows the distance from the vehicle in the back of your vehicle while parking.

***i* Information**

- The rear view does not turn off regardless of the mode when the gear is in R (Reverse).
- When the rear view is activated, the latest used view mode is displayed.
- The rear parking guidelines are displayed in rear view and rear top view mode. (When selecting **Settings > Vehicle > Driver assistance > Parking safety > Camera settings > Display contents > Rear view reference lines** in the infotainment system) However, rear parking guidelines are not displayed in the rear view while driving.
- The rear view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
- When the rear view while driving is on, the rear top view will be deactivated.

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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Rear View Monitor

When your vehicle is stopped for a long time in winter or your vehicle is parked in an indoor parking lot, the exhaust fumes may temporarily blur the image.

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 and side view mirror before parking or backing up.
- The distance to the object shown on the screen may differ from the actual distance. This is because the image shown on Rear View Monitor is displayed by calibrating the image from the wide-rear view camera.

When the vehicle is tilted by cargo loading, parking guidelines may not be correct. 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

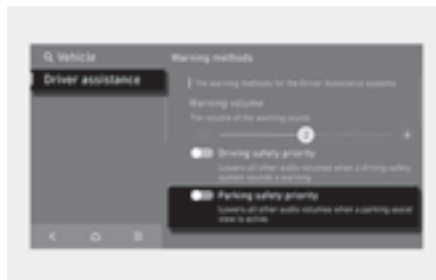


- [A] Wide-front view camera
- [B] Wide-side view camera (Below the side view mirror)
- [C] Wide-side view camera (Below the side view mirror)
- [D] Wide-rear view camera

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

Surround View Monitor settings

Warning Method



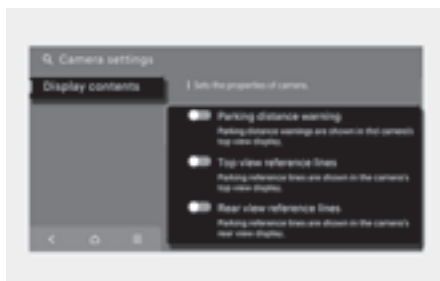
With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

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

Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Camera settings



- You can change Surround View Monitor "Display contents" by touching the setup icon (⚙️) on the screen while Surround View Monitor is operating, or by selecting **Settings > Vehicle > Driver assistance > Parking safety > Camera settings** in the infotainment system while the vehicle is on.
- In the "Display Contents", you can change settings for **Parking Distance warning**, **Top View Parking Lines** and **Rear View Parking Lines**.

Parking distance warning

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

Top view reference lines

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

- The image will be displayed only when Parking Distance Warning is warning the driver.

Rear view reference lines

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

i Information

- The horizontal guideline of the Rear Top View Parking Guidance shows the tailgate opening distance of 2 m (79 in.) from the vehicle.
- The horizontal guideline shows the distance of 0.5 m (20 in.), 1 m (40 in.) and 2.3 m (91 in.).

Surround View Monitor Auto On

With the vehicle on, select **Settings > Vehicle > Driver assistance > Parking safety > Surround view monitor auto On** in the infotainment system to use the function.

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 view appears on the screen when the gear is in N (Neutral) or D (Drive) to assist in parking.

You may select top view, front view, side view, or wide view using the change view button (2).

Operating conditions

- The gear is shifted to N (Neutral) or D (Drive) from R (Reverse) and the vehicle speed is 10 km/h (6 mph) or less.
- The Parking/View button (1) is pressed, while the gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.
- **Surround View Monitor Auto On** function is operated.

When **Driver Assistance > Parking Safety > Surround View Monitor Auto On** is selected in the infotainment system, the front view while parking appears.

- The rear view is selected by pressing the change view button (2) after pressing.

i Information

When the front view is activated, the latest used view mode is displayed.

Off conditions

- The gear is shifted from N (Neutral) or D (Drive) to P (Park) or R (Reverse).
- The Parking/View button (1) or the Infotainment system button (4) is Pressed.
- Vehicle speed is above 10 km/h (6 mph).
- The previous button  (3) is selected

Front view while driving

The driver is able to check the front view on the screen for safe driving.

You may select rear view while driving using the change view button (2) .

Operating conditions

- The Parking/View button (1) is pressed, while the gear is in N (Neutral) or D (Drive), and vehicle speed is above 10 km/h (6 mph).

Off conditions

- The Parking/View button (1) or the Infotainment system button (4) is pressed.
- The gear is shifted from N (Neutral) or D (Drive) to P (Park) or R (Reverse).
- The previous button  (3) is selected

i Information

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

i Information

- When the front view while driving is activated, the latest used view mode displayed.
 - The front view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
 - When the front view while driving is on, the front top view and side view are deactivated in all speed.
-

Rear view



The rear view appears on the screen to assist in parking.

You may select top view, rear view, side view, rear side view, or rear wide view using the change view button (2) .

Operating conditions

- The gear is shifted to R (Reverse).
- The rear view is selected by pressing the change view button (2) after pressing the Parking/View button (1), while 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 the gear is in P (Park), N (Neutral) or D (Drive):

- The Parking/View button (1) or the Infotainment system button (4) is pressed.
- The gear is shifted from N (Neutral) or D (Drive), to P (Park).
- The previous (◀) button (3) is selected on the surround view menu.
- Vehicle speed is above 10 km/h (6 mph).

When the gear is in R (Reverse):

- The gear is shifted to P (Park).

i Information

- When the gear is in R (Reverse), the rear view does not turn off even if the infotainment system button (4) is Pressed.
- When the rear view is activated, the latest used view mode is displayed.

Rear View while driving

The driver is able to check the rear view on the screen while driving, it is to assist with backing up.

Operating conditions

- The rear view is selected by pressing the change view button (2) after pressing the Parking/View button (1), while the gear is in N (Neutral) or D (Drive), and vehicle speed is above 10 km/h (6 mph).

You may select rear view or 3D view using the change view button (2) .

Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) or the Infotainment system button (4) is pressed.

i Information

- When the rear view while driving is activated, the latest used view mode is displayed.
- The Rear View Parking Lines does not operate on the rear view while driving.
- The rear view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
- When the rear view while driving is on, the rear top view and rear side view are deactivated in all speed.

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.

Operating conditions

When the 3D view is selected by pressing the change view button (2):

- 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).

Off conditions

When the gear is in P (Park), N (Neutral) or D (Drive):

- The gear is shifted to P (Park) from N (Neutral) or D (Drive).
- The Parking/View button (1) or the Infotainment system button (4) is Pressed.
- Vehicle speed is above 10 km/h (6 mph).

When the gear is in R (Reverse):

- The gear is shifted to P (Park)

i Information

- 3D view does not display guidelines.
 - The top view screen displayed with front/rear view or 3D view converts the original image input from the four wide-angle cameras to provide a 360-degree image of the surroundings of the vehicle looking down.
 - The top view does not display with the front/rear wide view.
 - The top view zoom-in can be set to pinch-in/out adjustment within the top view area.
-

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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Surround View Monitor

- The screen may be displayed abnormally, and an icon may appear at the top left side of the screen under the following circumstances:
 - The tailgate 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 distance to the object shown on the screen may differ from the actual distance. This is because the image shown on Surround View Monitor is displayed by calibrating the image from the camera.

When the vehicle is tilted by cargo loading, parking guidelines may not be correct. 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.

i Information

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

Rear Cross-Traffic Collision-Avoidance Assist (RCCA)

 if equipped

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



[A] Rear corner radar

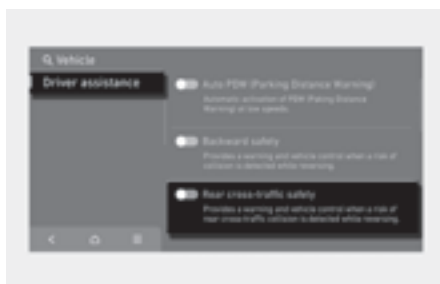
Refer to the picture above for the detailed location of the detecting sensors.

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 **Settings > Vehicle > Driver assistance > Parking safety > Rear cross-traffic safety** in the infotainment system 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 always turn on. However, if '**Rear cross-traffic safety**' is deselected after the vehicle is restarted, the driver should always be aware of the surroundings and drive safely.
- When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Rear Cross-Traffic Collision-Avoidance Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning Volume:** The warning volume can be adjusted.
- **Haptic warning:** The steering wheel vibration can be set.

Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
- The **Warning volume** and **Haptic warning** cannot be turned off at the same time. When one of the warnings is turned off the other is activated.

Rear Cross-Traffic Collision-Avoidance Assist operation

Rear Cross-Traffic Collision-Avoidance Assist warns and helps 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, and the steering wheel will vibrate. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.
- 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 approximately 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 may 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 cluster type or theme selected in the infotainment system.

Emergency Braking



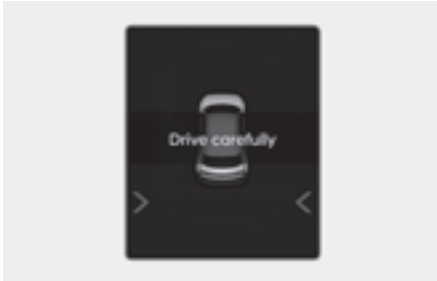
- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the side view mirror blinks and a warning message appears on the instrument cluster. At the same time, an audible warning sounds. A warning also appears on the infotainment system.
- Emergency braking will be assisted to help prevent a collision with approaching vehicles from the left and right.
- Rear Cross-Traffic Collision-Avoidance Assist operates 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 approximately 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 is 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 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 approximately 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 appears 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 performance will operate properly.
 - 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, animals, 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
-



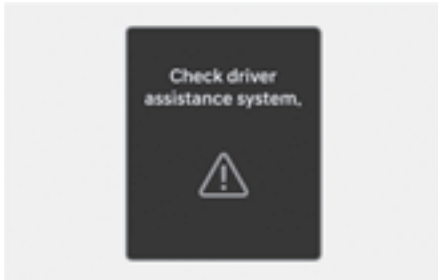
Information

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

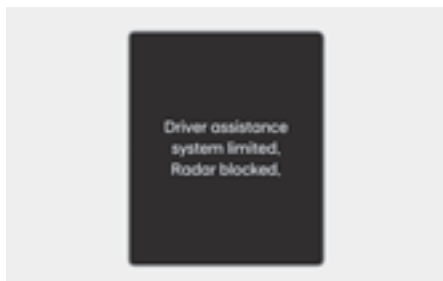


When Rear Cross-Traffic Collision-Avoidance Assist is not working properly, the "**Check Driver Assistance system.**" warning message appears on the instrument cluster for several seconds, and the master (⚠) warning light illuminates on the instrument cluster. If this occur, we recommend that your vehicle be 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 appears on the instrument cluster for several seconds, and the master (⚠) warning light illuminates on the cluster. If this occur, we recommend that your vehicle be 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 "**Driver Assistance system limited. Radar blocked.**" warning message appears on the instrument cluster.

Rear Cross-Traffic Collision-Avoidance Assist operates 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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the 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.

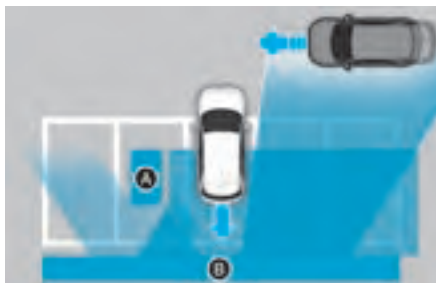
- When the vehicle is on or near a slope



Rear Cross-Traffic Collision-Avoidance Assist may be limited when the vehicle is on a 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

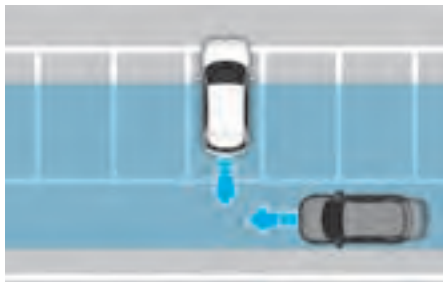


[A] Structure
[B] Wall

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 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.
- If the vehicle is turned off and restarted while the sensor is blocked or malfunctioned, the condition is maintained. Therefore, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.

Forward/Reverse Parking Distance Warning (PDW)

 if equipped

Forward/Reverse Parking Distance Warning uses the front 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



[A] Front ultrasonic sensors

[B] Rear ultrasonic sensors

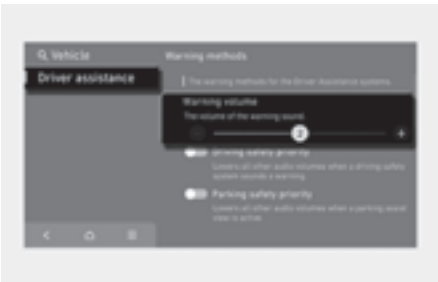
Refer to the picture above for the detailed location of the detecting sensors.

Forward/Reverse Parking Distance Warning settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Reverse Parking Distance Warning is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning Method



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

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

i Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Auto PDW (Parking Distance Warning)

To use **Auto PDW (Parking Distance Warning)** function, select **Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning)** in the infotainment system.

i Information

When **Auto PDW (Parking Distance Warning)** is selected, the Parking Safety button indicator (P^W▲) stays on.

Forward/Reverse Parking Distance Warning operation

Parking Safety button



Press the Parking Safety (P^W▲) 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 automatically turns on (Parking Safety button indicator on).

Forward Parking Distance Warning

Forward Parking Distance Warning operates 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 **Vehicle > Driver Assistance > Parking Safety > Auto PDW (Parking Distance Warning)** is selected in the infotainment system.)

i Information

- Forward Parking Distance Warning operates only when the vehicle's forward speed is below 10 km/h (6 mph).
- While the gear is in R (Reverse), Forward Parking Distance Warning warns only the front outer side area. (within 60 cm (24 in.))
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It may not reactivate although the vehicle speed drops below 10 km/h (6 mph). (Only when **Vehicle > Driver Assistance > Parking Safety > Auto PDW (Parking Distance Warning)** is not selected in the infotainment system.)

Distance from object	Warning indicator		Warning sound
	Cluster	Infotainment	
60-120 cm (24-48 in.)			Buzzer beeps intermittently (front inner side)
30-60 cm (12-24 in.)			Beeps more frequently
within 30 cm (12 in.)			Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- When the distance from the vehicle to the object is above 60 cm (24 in.), Forward Parking Distance Warning may not display the front outer side area warning in the cluster.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Reverse Parking Distance Warning

Reverse Parking Distance Warning operates under the following conditions.

- The gear is shifted to R (Reverse).

Distance from object	Warning indicator		Warning sound
	Cluster	Infotainment	
60-120 cm (24-48 in.)			Buzzer beeps intermittently
30-60 cm (12-24 in.)			Buzzer beeps intermittently
within 30 cm (12 in.)			Beeps continuously

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

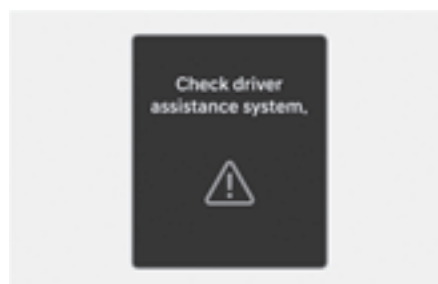
Forward/Reverse Parking Distance Warning malfunction and limitations

Parking Distance Warning malfunction

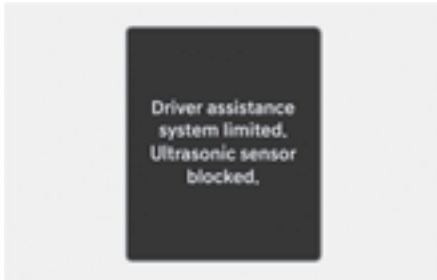
After starting the vehicle, a beep may sound when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

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 we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The "**Check Driver Assistance system.**" warning message appears on the cluster.



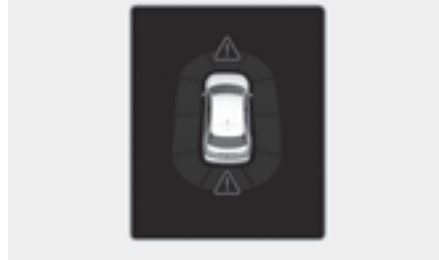
Parking Distance Warning disabled



If this occurs the "**Driver Assistance system limited. Ultrasonic sensor blocked.**" warning message appears on the instrument cluster. Parking Distance Warning operates 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), we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

***i* Information**



When the Parking Distance Warning is operating, if the function is not working normally or the ultrasonic sensor is blocked, the master (⚠) warning light appears in the direction of the corresponding sensor. You can check the warning in the Utility view on the instrument cluster.

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 operates 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 generates 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, we recommend that your vehicle be 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



- [A] Front ultrasonic sensors
- [B] Front side ultrasonic sensors
- [C] Rear ultrasonic sensors
- [D] Rear side ultrasonic sensors

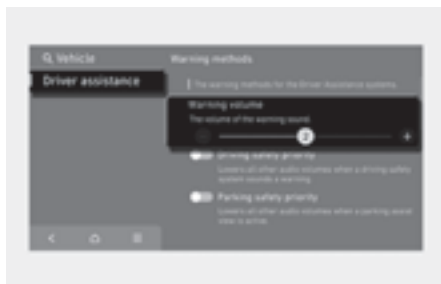
Refer to the picture above for the detailed location of the detecting sensors.

Forward/Side/Reverse Parking Distance Warning Settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Reverse Parking Distance Warning is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

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

Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Parking Distance Warning Auto On

To use **Auto PDW (Parking Distance Warning)** function, select **Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning)** in the infotainment system.

Information

- When **Auto PDW (Parking Distance Warning)** is selected, the Parking Safety button indicator (P^W) stays on.

Forward/Side/Reverse Parking Distance Warning Operation

Parking Safety button



Press the Parking Safety (P Δ) 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 automatically turns on (Parking Safety button indicator on).

Forward Parking Distance Warning

Forward Parking Distance Warning operates 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 Δ) button indicator light is on
- Shift to D (Drive) when the function is off

(Only when **Vehicle > Driver Assistance > Parking Safety > Auto PDW (Parking Distance Warning)** is selected in the infotainment system.)

i Information

- Forward Parking Distance Warning operates only when the vehicle's forward speed is below 10 km/h (6 mph).
- While the gear is in R (Reverse), Forward Parking Distance Warning warns only the front outer side area. (within 60 cm (24 in.))
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It may not reactivate although the vehicle speed drops below 10 km/h (6 mph).

(Only when **Vehicle > Driver Assistance > Parking Safety > Auto PDW (Parking Distance Warning)** is not selected in the infotainment system.)

Distance from object	Warning indicator		Warning sound
	Cluster	Infotainment	
60-120 cm (24-48 in.)			Buzzer beeps intermittently (front inside)
30-60 cm (12-24 in.)			Beeps more frequently
within 30 cm (12 in.)			Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- When the distance from the vehicle to the object is above 60 cm (24 in.), Forward Parking Distance Warning may not display the front outer side area warning in the cluster.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Side Parking Distance Warning

Side Parking Distance Warning operates 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 **Vehicle > Driver Assistance > Parking Safety > Auto PDW (Parking Distance Warning)** is selected in the infotainment system.)

i Information

- Side Parking Distance Warning operates 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
	Cluster	Infotainment	
60-120 cm (24-48 in.)			-
30-60 cm (12-24 in.)			-
within 30 cm (12 in.)			Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person 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 sounds.
- If an object outside the side of the vehicle's path is detected, the warning indicator is displayed.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Reverse Parking Distance Warning

Reverse Parking Distance Warning operates under the following conditions.

- The gear is shifted to R (Reverse).

Distance from object	Warning indicator		Warning sound
	Cluster	Infotainment	
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 illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

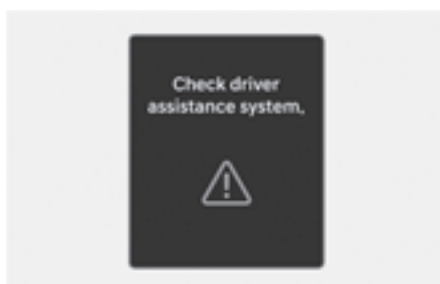
Forward/Side/Reverse Parking Distance Warning Malfunction and Limitations

Forward/Side/Reverse Parking Distance Warning malfunction

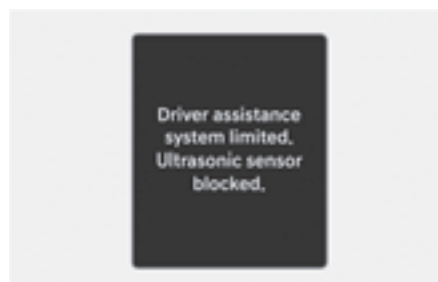
After starting the vehicle, a beep sounds when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The **“Check Driver Assistance system.”** warning message appears on the instrument cluster.



Parking Distance Warning disabled



If this occurs the **“Driver Assistance system limited. Ultrasonic sensor blocked.”** warning message appears on the instrument cluster. Parking Distance Warning operates 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), your vehicle be inspected by an authorized HYUNDAI dealer.

i Information



When the Parking Distance Warning is operating, if the function is not working normally or the ultrasonic sensor is blocked, the master warning light (⚠) appears in the direction of the corresponding sensor. You can check the warning in the Utility view on the cluster.

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 operates 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 generates 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



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, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Reverse Parking Collision-Avoidance Assist (PCA)

 if equipped

Reverse Parking Collision-Avoidance Assist detects pedestrians or objects behind the vehicle and may warn you or assist you with braking to help avoid a collision while your vehicle is reversing.

Detecting sensor



[A] Wide-rear view camera
[B] Rear ultrasonic sensors

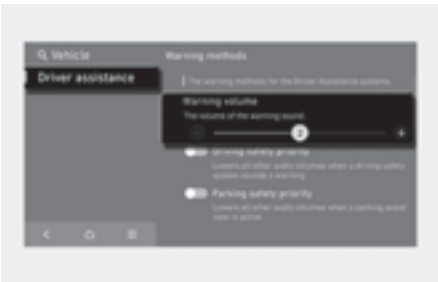
Refer to the picture above for the detailed location of the detecting sensors.

Reverse Parking Collision-Avoidance Assist settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Reverse Parking Collision-Avoidance Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning Volume:** The warning volume can be adjusted.
- **Haptic warning:** The steering wheel vibration can be set.

i Information

- If you change the Warning Method, the Warning Method of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Parking Safety

With the vehicle on, select or deselect **Vehicle > Driver Assistance > Parking Safety** in the infotainment system to set whether to use each function.

- If "**Backward Safety**" is selected, Parking Collision-Avoidance Assist warns the driver and assists with braking when a collision with a pedestrian or an object is imminent from behind.

i Information

When the vehicle is turned on, the rear safety selection is set as the default, and the rear safety setting is maintained even if the engine is turned off and then restarted.

Reverse Parking Collision-Avoidance Assist operation

Turning Parking Collision Avoidance Assist On/Off



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

Operating conditions

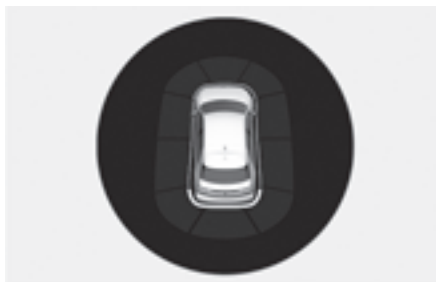
If Reverse Parking Collision-Avoidance Assist detects a risk of collision behind the vehicle with a pedestrian or an object, Reverse Parking Collision-Avoidance Assist warns the driver with an audible warning and warning message on the cluster. If Surround View Monitor is operating, a warning appears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

If collision is imminent, Reverse Parking Collision-Avoidance Assist assists you with braking.

Select "**Backward Safety**" from the "**Parking Safety**" menu of the infotainment system. Parking Collision-Avoidance Assist is enabled when the following conditions are satisfied:

- The tailgate and door are closed
- The parking brake 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

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



i Information

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

Off conditions

If collision is imminent, Reverse Parking Collision-Avoidance Assist assists you with braking. 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:

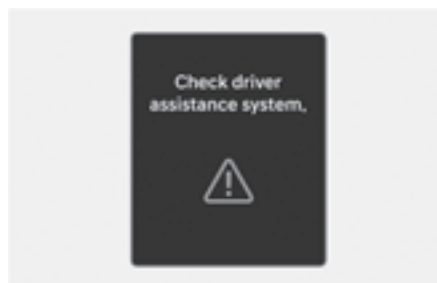
- The gear is shifted to P (Park) or D (Drive)
- The brake pedal is depressed with sufficient power

i Information

When Parking Collision-Avoidance Assist is activated while reversing, braking control will be released after 5 minutes and the parking brake will be engaged.

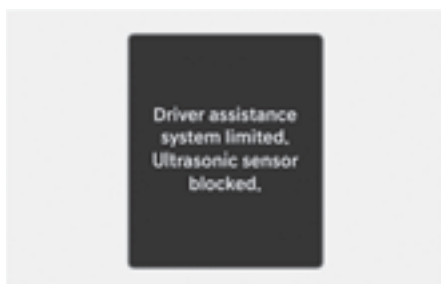
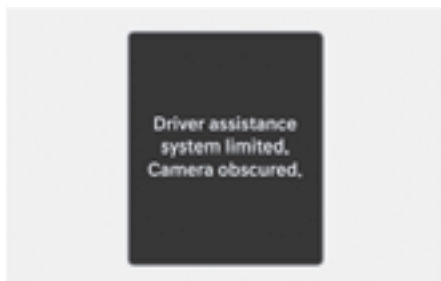
Reverse Parking Collision-Avoidance Assist malfunction and limitations

Reverse Parking Collision-Avoidance Assist malfunction



When Reverse Parking Collision-Avoidance Assist or other related functions are not working properly, the "**Check Driver Assistance system.**" warning message appears on the instrument cluster, and Reverse Parking Collision-Avoidance Assist turns off automatically. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Reverse Parking
Collision-Avoidance Assist disabled

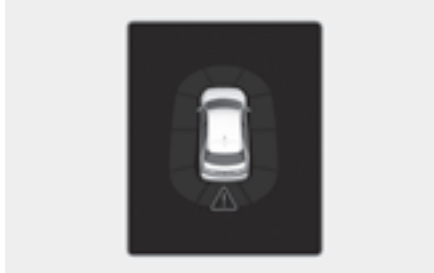


The "**Driver Assistance system limited. Camera obscured.**" or "**Driver Assistance system limited. Ultrasonic sensor blocked.**" warning message appears on the cluster if the following situations occur:

- The rear view camera or rear 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, Reverse Parking Collision-Avoidance Assist may turn off or may not operate properly. Check whether the rear view camera and rear ultrasonic sensors are clean.

i Information



A master (△) warning light appears in the relative directions in case of a malfunction or blinding of the ultrasonic sensors whilst the Reverse Parking Collision-Avoidance Assist (PCA) is active. You can check the message in the utility information view of the instrument cluster.

Limitations of Reverse Parking Collision-Avoidance Assist

Reverse 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-rear view camera(s) or ultrasonic sensor(s) is damaged
 - Wide-rear view camera(s) or the ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
 - Wide-rear view camera(s) is obscured by a light source or by inclement weather, such as heavy rain, fog, snow, 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, bush, 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
 - The vehicle is driven immediately after starting the vehicle

WARNING

Take the following precautions when using Reverse 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 Reverse Parking Collision-Avoidance Assist may vary under certain conditions. If vehicle speed is above 4 km/h (2 mph), Reverse Parking Collision-Avoidance Assist will provide collision avoidance assist only when pedestrians are detected. Always look around and pay attention when driving your vehicle.

- Reverse Parking Collision-Avoidance Assist may operate differently under certain conditions. If the vehicle moves forward and backward repeatedly, Reverse 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.
 - Reverse 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-rear 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-rear 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-rear view cameras or the ultrasonic sensors. Reverse 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. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
-

Information

Reverse 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
-

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

B if equipped

Forward/Side/Reverse Parking Collision-Avoidance Assist can warn the driver or assist with braking to help reduce the possibility of collision with a pedestrian or an object while driving at low speed.

Detecting sensor



- [A] Front ultrasonic sensors
- [B] Front side ultrasonic sensors
- [C] Rear ultrasonic sensors
- [D] Rear side ultrasonic sensors

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



- [A] Wide-front view camera
- [B] Wide-side view camera (below the outside mirror)
- [C] Wide-side view camera (below the outside mirror)
- [D] Wide-rear view camera

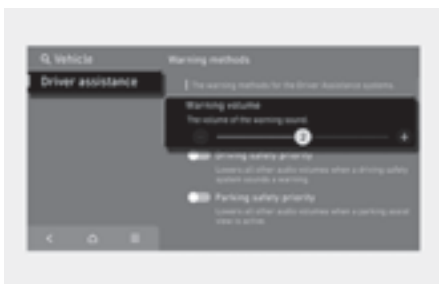
Refer to the picture above for the detailed location of the detecting sensors.

Parking Collision-Avoidance Assist settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Reverse Parking Collision-Avoidance Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** in the infotainment system to select following:

- **Warning volume:** The warning volume can be adjusted.

Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Parking Safety

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

- If 'Front/Side Safety' is selected, Parking Collision-Avoidance Assist will warn the driver and assist with braking when a collision with a 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 pedestrian or an object is imminent from behind.

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.

Parking Collision-Avoidance Assist operation

Turning Parking Collision-Avoidance Assist On/Off



Press and hold the Parking Safety (P[Ⓜ]) button more than 2 seconds, 'Rear Active Assist' or 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 "**Rear safety**" from the "**Parking safety**" menu of the infotainment system. Parking Collision-Avoidance Assist is enabled when the following conditions are satisfied:

Rear Safety

- The tailgate 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

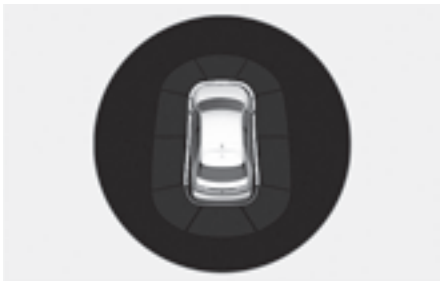
- Front/Side safety is selected from the Parking Safety settings menu in the infotainment system.
- The tailgate and door are closed
- The Electronic Parking Brake (EPB) is released
- A trailer is not connected
- The gear is shifted to R (Reverse) or D (Drive)
- Vehicle speed is below 4 km/h (for pedestrians, 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:

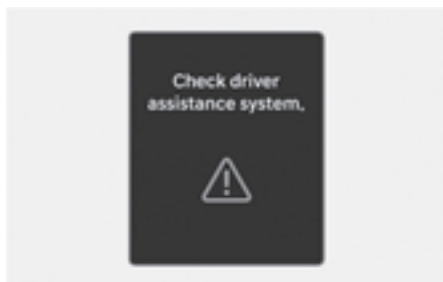
- The gear is shifted to P (Park) or D (Drive)
- The brake pedal is depressed with sufficient power

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.

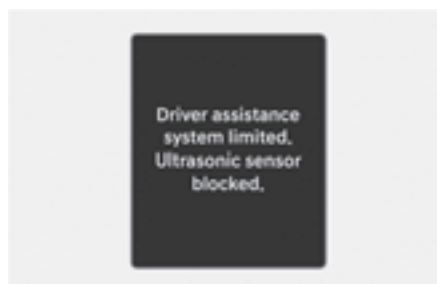
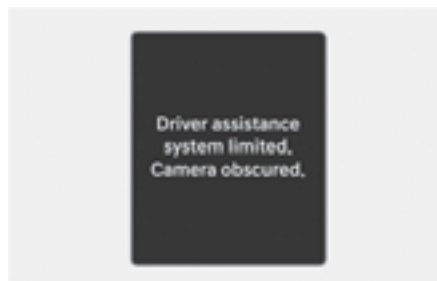
Parking Collision-Avoidance Assist malfunction and limitations

Parking Collision- Avoidance Assist malfunction



When Parking Collision-Avoidance Assist or other related functions are not working properly, the **"Check driver assistance system."** warning message will appear on the instrument cluster, and Parking Collision-Avoidance Assist will turn off automatically. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Parking Collision-Avoidance Assist disabled

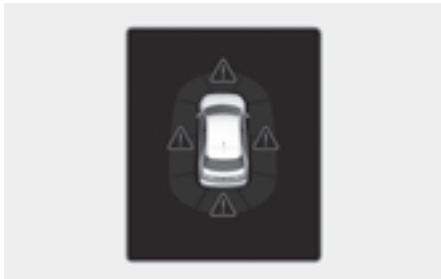


The **"Driver assistance system limited. Camera obscured."** or **"Driver assistance system limited. Ultrasonic sensor blocked."** warning message will appear on the instrument cluster if the following situations occur:

- 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.

i Information



A master warning light (⚠) appears in the relative directions in case of a malfunction or blinding of the ultrasonic sensors while the Reverse Parking Collision-Avoidance Assist (PCA) is active. You can check the message in the utility information view of the instrument cluster.

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-rear view camera(s) or ultrasonic sensor(s) is damaged
 - Wide-rear view camera(s) or the ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
 - Wide-rear 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, bush, 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
 - The vehicle is driven immediately after starting 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-rear 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-rear 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-rear 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. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

i 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 vehicle sensors to help the driver park and exit parking spaces remotely from outside the vehicle by controlling the steering wheel, vehicle speed, and gearshifts.

Function	Description
Remote Operation	Remotely moving forward or backward 
	Perpendicular reverse parking 
Smart Parking or Remote Parking	Diagonal reverse parking 
	Parallel reverse parking 

Function	Description
Smart Exit	Parallel forward exit 

- Remote 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



- [A] Wide-front view camera
- [B] Wide-side view camera (below the outside mirror)
- [C] Wide-side view camera (below the outside mirror)
- [D] Wide-rear view camera

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

- [A] Front ultrasonic sensors
- [B] Front corner ultrasonic sensors
- [C] Rear ultrasonic sensors
- [D] Rear corner ultrasonic sensors

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 rearview mirror or use Remote Smart Parking Assist after a hard impact on the rearview mirror. When a collision occurs or the outside rearview mirror is manually operated, Remote Smart Parking Assist may not operate properly.
-

Remote Smart Parking Assist settings

WARNING

When the vehicle and the trailer is connected electrically, a warning message appears on the cluster, and Remote Smart Parking Assist is deactivated. The function resumes after the trailer connector is disconnected. (if Hyundai genuine part equipped)

Warning Methods



With the vehicle on, go to **Settings > 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.
 - Warning Method will maintain its last setting even if the vehicle is restarted.
 - The setting menu may not be available for your vehicle depending on the vehicle features and specifications.
-

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 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 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. When using the Remote Operation function, the vehicle moves in the direction of the button while the button is pressed.
	Backward button		

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

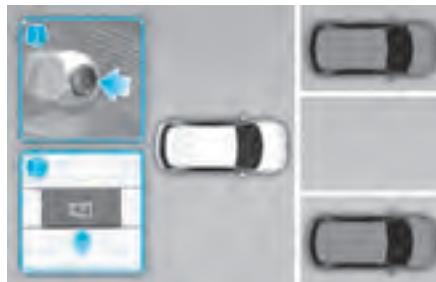
There are two ways to operate Remote Operation function.



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) (1).
2. Press and hold the Parking/View (🅈🅕) button (2) to turn on Smart Parking Assist.
 - A message '**Under Remote Control**' will appear on the infotainment system.
3. Get out of the vehicle with the smart key and close all doors and tailgate.

i Information

- Make sure that no smart or digital keys remain in the vehicle before you start moving the vehicle from the outside with the remote forward/backward function. Remote forward/backward function will not work if there is an extra smart key or digital key in the vehicle.
- '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



[A] Forward
[B] Backward

1. Press and hold one of the Forward (⏮) or Backward (⏭) 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 the 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 (⏮) or Back-ward (⏭) 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 () 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 () 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.
- When your vehicle is being parked by the Remote Smart Parking Assist, a stopper in the parking space may reduce the vehicle alignment performance.

WARNING

- Before starting moving the vehicle with the remote parking function from the outside of the vehicle, 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
Under control	Green LED continuously blinks
Pause	Red LED continuously blinks
Off	Red LED illuminates for 4 seconds and then turns off
Complete	Green LED illuminates for 4 seconds and then turns off

Information

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 in 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 tailgate 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)
- If the Parking Collision-Avoidance Assist is activated during forward/rear control

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
- 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 Parking

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

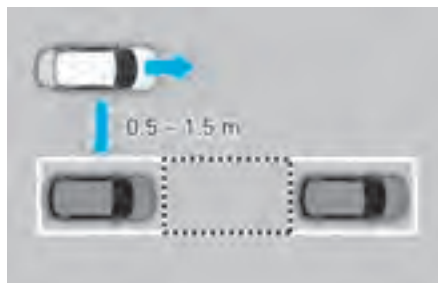
When searching for a parking space is complete, a message will appear on the infotainment system with an audible sound to notify the search is complete.

'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 canceled immediately depending on surroundings.

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.
- 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 an 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.

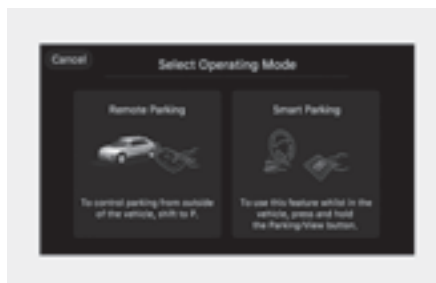
i Information

- If 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 canceled 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 Parking function. Follow the instructions to operate Remote Smart Parking Assist.

i Information

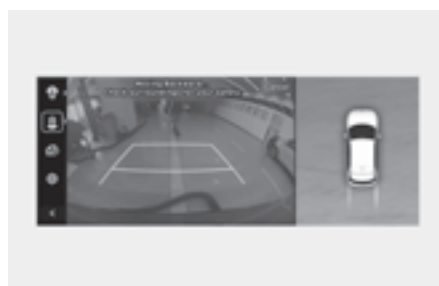
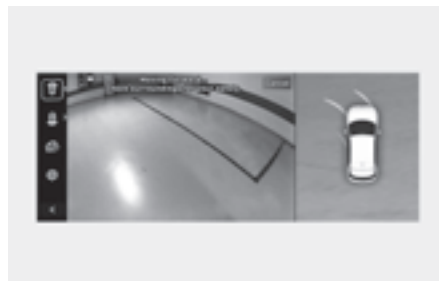
- Operating instructions will be displayed on the screen for each desired function you select.
- Do not take your foot off the brake pedal during the Parking function guide. When the vehicle moves, Remote Smart Parking Assist will turn off.

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 () button when the vehicle is stopped by depressing the brake pedal.
2. Release the brake pedal while pressing the Parking/View () 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 () button, the function 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 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 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 Back-ward () 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 Back-ward (⏭) 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

- Make sure that no smart key remain in the vehicle before you start moving the vehicle with the remote parking function outside the vehicle. Remote parking does not work if there is an extra smart key in the vehicle.
- 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.

- Remote Parking function

Operation status	Smart key LED	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	-
Off	Red LED illuminates for 4 seconds and then turns off	-
Complete	Green LED illuminates for 4 seconds and then turns off	-

***i* Information**

If the smart key is not within the operating range from the vehicle (about 4m (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 in 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 tailgate 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
 - If the Parking Collision-Avoidance Assist is activated during forward/rear control

- Remote Parking
 - There is a pedestrian, animal or object in the direction the vehicle is moving
 - The door or tailgate 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 or Rear-Cross Traffic Collision-Avoidance Assist operates
 - If the Parking Collision-Avoidance Assist is activated during forward/rear control

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
 - 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 passed 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

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

- Remote 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
 - 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 passed 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 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/V**) 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 "Remote Smart Parking Assist 2 (RSPA 2)" 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 () 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 () 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 tailgate 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
- If the Parking Collision-Avoidance Assist is activated during forward/rear control

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
 - 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 passed 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 we recommend that you 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/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.

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 outside rearview 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 near high obstacles such as truck beds



A minor collision may occur if you use Remote Smart Parking Assist near obstacles or structures located at a height that makes it difficult for the sensor to detect objects, such as truck beds. If there are high obstacles or structures near the vehicle, do not use Remote Smart Parking Assist and manually park or exit a parking space.

- 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 an 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. We recommend that you 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, we recommend that you 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.

Front radar

The radio frequency components complies:

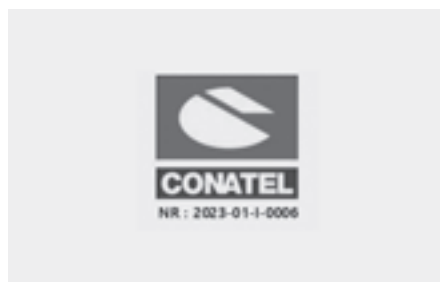
- For Israel



- For Taiwan



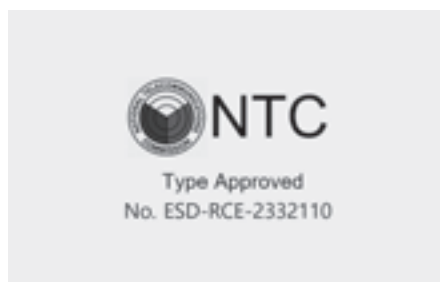
- For Paraguay



- For Singapore



- For Philippines



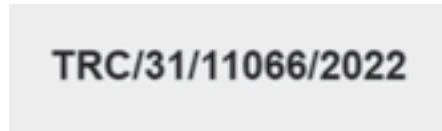
- For Mexico



- For Brazil



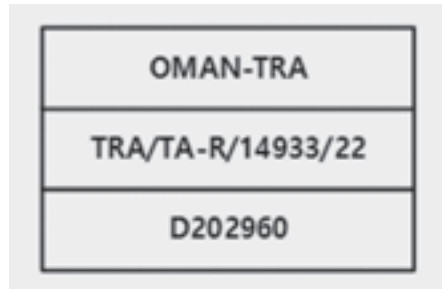
- For Jordan



- For Indonesia



- For Oman



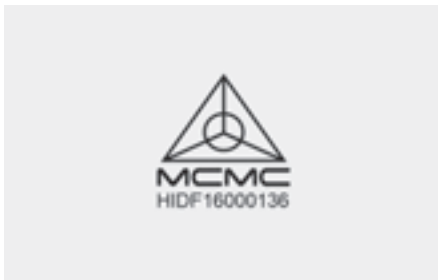
- For Republic of South Africa



- For Uzbekistan



- For Malaysia



- For United Arab Emirates



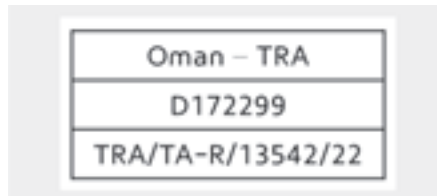
- For Japan



- For United Arab Emirates



- For Oman



- For Morocco



- For Republic of South Africa



- For Zambia



- For Senegal



- For Paraguay



- For Jordan



- For Australia



- For Indonesia



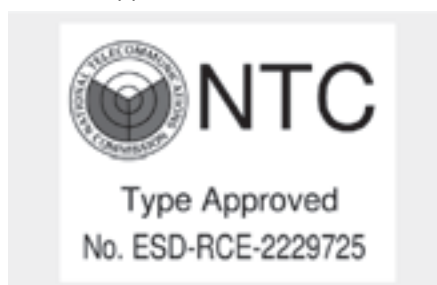
- For Brazil



- For Taiwan



- For Philippines



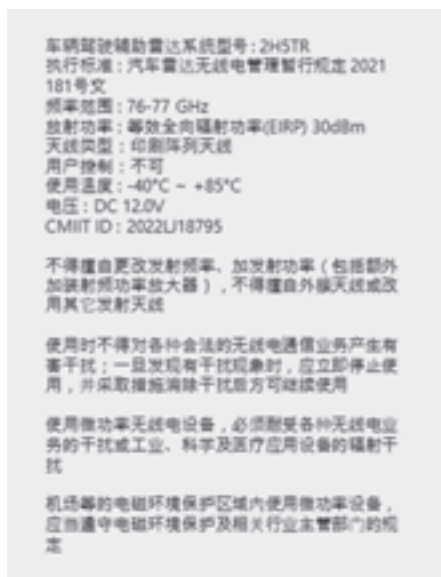
- For Thailand



- For Ukraine



- For China



8. Emergency situations

Hazard warning flasher	8-3
In case of an emergency while driving	8-3
If the vehicle stalls while driving.....	8-3
If the vehicle stalls at a crossroad or crossing	8-3
If you have a flat tire while driving.....	8-4
If the vehicle will not start.....	8-4
Confirm the EV battery is not low on the charge gauge.....	8-4
Jump starting (12 V battery).....	8-5
Tire Pressure Monitoring System (TPMS)	8-9
Check tire pressure.....	8-9
Tire pressure monitoring system	8-10
Low tire pressure warning indicator	8-11
Low tire pressure position and tire pressure telltale	8-11
TPMS malfunction indicator.....	8-12
Changing a tire with TPMS	8-13
If you have a flat tire (with Tire Mobility Kit).....	8-15
Introduction.....	8-16
Notes on the safe use of the Tire Mobility Kit.....	8-16
Components of the Tire Mobility Kit	8-18
Using the Tire Mobility Kit When a tire is flat.....	8-19
How to adjust tire pressure	8-23
Towing.....	8-24
Towing service	8-24
Removable towing hook.....	8-25
Emergency commodity.....	8-26
Fire extinguisher	8-26
First aid kit	8-27
Triangle reflector.....	8-27
Tire pressure gauge	8-27
Pan-European eCall System (FOR EUROPE)	8-29
Information on data processing (For Europe).....	8-32
Pan-European eCall System (For Europe).....	8-34
ECall system (for UAE & Saudi).....	8-38
Information on data processing (for UAE & Saudi).....	8-41
ECall system (for UAE & Saudi)	8-43

eCall certification label	8-46

Hazard warning flasher



The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.

It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

To turn the hazard warning flasher on or off, press the hazard warning flasher button with the Start/Stop button in any position. The hazard warning flasher button is located in the center fascia panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates regardless of whether your vehicle is ON (READY indicator ON) or not.
- The turn signals do not work when the hazard flasher is on.

In case of an emergency while driving

If the vehicle stalls while driving

- Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- Turn on your hazard warning flasher.
- Try to start the vehicle again. If your vehicle will not start, we recommend that you contact an authorized HYUNDAI dealer or seek other qualified assistance.

If the vehicle stalls at a crossroad or crossing

If the vehicle stalls at a crossroads or crossing, if safe to do so, shift the gear to N (Neutral) and then push the vehicle to a safe location.

To stay N (Neutral) while the vehicle is off, refer to 'Gear shifting' in chapter 6.

If you have a flat tire while driving

If a tire goes flat while you are driving:

- Take your foot off the accelerator pedal and let the vehicle slow down while driving straight ahead. Do not apply the brakes immediately or attempt to pull off the road as this may cause loss of vehicle control resulting in an accident. When the vehicle has slowed to such a speed that it is safe to do so, brake carefully and pull off the road. Drive off the road as far as possible and park on firm, level ground. If you are on a divided highway, do not park in the median area between the two traffic lanes.
- When the vehicle is stopped, press the hazard warning flasher button, shift the gear to P (Park), apply the parking brake, and press the Start/Stop button to the OFF position.
- Have all passengers get out of the vehicle. Be sure they all get out on the side of the vehicle that is away from traffic.
- When you have a flat tire, follow the Tire Mobility Kit instructions provided later in this chapter.

If the vehicle will not start

Confirm the EV battery is not low on the charge gauge

- Be sure the gear is in P (Park). The vehicle starts only when the gear is in P (Park).
- Check the 12 V battery connections to be sure they are clean and tight.
- Turn on the interior light. If the light dims or goes out when you operate the starter, the 12 V battery is drained.

Do not push or pull the vehicle to start it. This could cause damage to your vehicle.

Jump starting (12 V battery)

 if equipped

Jump starting can be dangerous if done incorrectly. Follow the jump starting procedure in this section to avoid serious injury or damage to your vehicle. If in doubt about how to properly jump start your vehicle, we strongly recommend that you have a service technician or towing service do it for you.

WARNING

To prevent **SERIOUS INJURY** or **DEATH** to you or bystanders, always follow these precautions when working near or handling the battery:

Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.



- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.
- NEVER attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition system works with high voltage.

NEVER touch these components with the vehicle running or when the Start/Stop button is in the ON position.

- The electrical ignition system works with high voltage. NEVER touch these components with the READY indicator ON or when the Start/Stop button is in the ON position.
 - Do not allow the (+) and (-) jumper cables to touch. It may cause sparks.
 - The battery may rupture or explode when you jump start with a low or frozen battery.
 - Do not directly connect the (-) to the jump cable. Connect the (-) to the one of the metallic parts located far from the jump cable in the vehicle. The direct (-) connection to the jump cable may cause an explosion.
 - Be sure to use only 12 V battery to jump start. Using batteries with other voltages to jump start can damage the battery or even provoke an explosion.
-

Jump starting procedure

***i* Information**

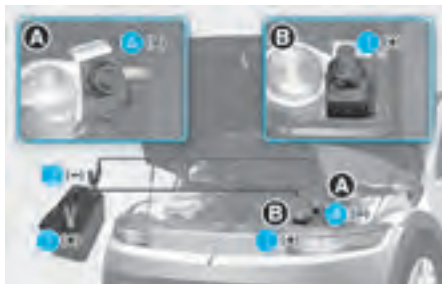
When you jump start your vehicle, use the jumper terminal in the motor compartment.

1. Position the vehicles close enough that the jumper cables reach, but do not allow the vehicle body parts to contact.
2. Avoid fans or any moving parts in the motor compartment at all times, even when the vehicles are turned off.
3. Turn off all electrical devices such as radios, lights, air conditioning, etc. Put the vehicles in P (Park) and set the parking brake. Turn both vehicles OFF.
4. Open the hood.
5. Remove the motor compartment fuse box cover.



CAUTION

Before jump starting, make sure to correctly identify the positive (+) and negative (-) terminals to avoid reverse polarity connections.



[A] Negative - battery terminal
[B] Positive + battery terminal

6. Connect the jumper cables in the exact sequence shown in the illustration. First connect one jumper cable to the red, positive (+) jumper terminal of your vehicle (1).
7. Connect the other end of the jumper cable to the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
8. Connect the second jumper cable to the black, negative (-) battery/jumper terminal of the assisting vehicle (3).
9. Connect the other end of the second jumper cable to the black, negative (-) chassis ground of your vehicle (4).

Do not allow the jumper cables to contact anything except the correct battery or jumper terminals or the correct ground. Do not lean over the battery when making connections.

WARNING

Do not connect the jumper cable to the negative (-) jumper terminal of the discharged battery. A spark could cause the battery to explode and lead to a personal injury or vehicle damage.

10. Start the assisting vehicle and let it run at about for a few minutes. Then start your vehicle.
11. Keep your vehicle operating for at least 30 minutes at idle or driving to assure your battery receives enough charge to be able to start on its own after the vehicle is shut off. A complete dead battery may require as long as 60 minutes runtime to fully recharge it. If vehicle is run for less, the battery may not restart.

If your vehicle does not start after a few attempts, it probably requires servicing. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Disconnect the jumper cables in the exact reverse order you connected them:

1. Disconnect the jumper cable from the black, negative (-) chassis ground of your vehicle (4).
2. Disconnect the other end of the jumper cable from the black, negative (-) battery/chassis ground of the assisting vehicle (3).
3. Disconnect the second jumper cable from the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
4. Disconnect the other end of the jumper cable from the red, positive (+) jumper terminal of your vehicle (1).

i Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose of the battery according to your local law(s) or regulations.

NOTICE

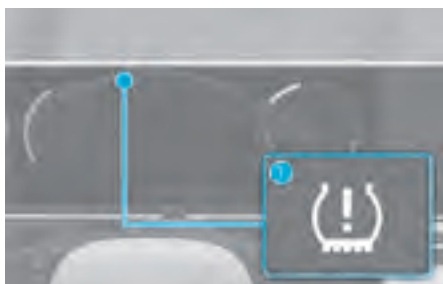
To prevent damage to your vehicle:

- Only use a 12 V power supply (battery or jumper system) to jump start your vehicle.
 - Do not attempt to jump start your vehicle by push-starting.
 - Always be sure that the battery cover and cable are tightened after finishing jump start your vehicle. Otherwise it may cause damage to the relevant parts, noise trouble, or entrance of foreign substances.
-

⚠ WARNING

While jump starting your vehicle, avoid the positive (+) and negative (-) cables from come into contact. A spark could cause personal injury.

Tire Pressure Monitoring System (TPMS)



- (1) Low Tire Pressure Telltale/TPMS Malfunction Indicator
- (2) Low Tire Pressure Position Telltale and Tire Pressure Telltale (Shown on the cluster display)

Check tire pressure



- You can check the tire pressure in the Utility view mode on the cluster.
Refer to the "Cluster display control" section in chapter 4.
- Tire pressure appears after a few minutes of driving. If the tire pressure does not appear when the vehicle is stopped, the message, "**Drive to display**" appears.
- The displayed tire pressure values may differ from those measured with a tire pressure gauge.
- You can change the tire pressure unit in the infotainment system.
 - Select **Settings > General > Unit > Tire pressure unit > psi/kPa/bar**

i Information

The infotainment system may change after software updates. For more information, refer to the infotainment system manual.

Tire pressure monitoring system

WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in a collision.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure.

Under-inflation also reduces energy efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for about one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

NOTICE

We recommend that the system be inspected by an authorized HYUNDAI dealer if:

- The Low Tire Pressure Telltale/TPMS Malfunction Indicator does not illuminate for 3 seconds when the Start/Stop button is moved to the ON position or the vehicle is running.
- The TPMS Malfunction Indicator remains illuminated after blinking for about 1 minute.
- The Low Tire Pressure Position Telltale remains illuminated.

Low tire pressure warning indicator



Low tire pressure position and tire pressure telltale



When the tire pressure monitoring system warning indicators are illuminated and a warning message displayed on the cluster display, one or more of your tires is significantly under-inflated. The Low Tire Pressure Position Telltale will indicate which tire is significantly underinflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel.

If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

The Low Tire Pressure position indicator will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated until you have the low pressure tire repaired and replaced on the vehicle.

CAUTION

In winter or cold weather, the Low Tire Pressure Telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.

TPMS malfunction indicator



The TPMS Malfunction Indicator (⚠) illuminates after it blinks for about one minute when there is a problem with the Tire Pressure Monitoring System.

We recommend that you have the system inspected by an authorized HYUNDAI dealer as soon as possible.

NOTICE

If there is a malfunction with the TPMS, the individual tire pressures on the cluster display are not available. We recommend that the system be inspected by an authorized HYUNDAI dealer as soon as possible.

NOTICE

The TPMS Malfunction Indicator may illuminate after blinking for one minute if the vehicle is near electric power supply cables or radio transmitters such as police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, etc.

Additionally, the TPMS Malfunction Indicator may illuminate if snow chains are used or if electronic devices such as computers, chargers, remote starters, navigation, etc. are near the vehicle. This may interfere with normal operation of the TPMS.

Changing a tire with TPMS

If you have a flat tire, the Low Tire Pressure and Position telltales come on. We recommend that the flat tire be repaired by an authorized HYUNDAI dealer as soon as possible.

NOTICE

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer or the equivalent specified for your vehicle may damage the tire pressure sensor.

The spare tire (if equipped) does not come with a tire pressure monitoring sensor. When the low pressure tire or the flat tire is replaced with the spare tire, the Low Tire Pressure Telltale will remain on. Also, the TPMS Malfunction Indicator will illuminate after blinking for one minute if the vehicle is driven at speed above 25 km/h (15.5 mph) for approximately 10 minutes.

Once the original wheel equipped with a tire pressure monitoring sensor is reinflated to the recommended pressure and reinstalled on the vehicle, the Low Tire Pressure Telltale and TPMS Malfunction Indicator will go off within a few minutes of driving.

If the indicators do not extinguish after a few minutes we recommend to consult an authorized HYUNDAI dealer.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem (except for the spare tire). You must use TPMS specific wheels. It is recommended that you always have your tires serviced by an authorized HYUNDAI dealer.

You may not be able to identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gauge to measure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6 km (1 mile) in that 3 hour period.

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

WARNING

- The TPMS cannot alert you to severe and sudden tire damage caused by external factors such as nails or road debris.
 - If you feel any vehicle instability, immediately take your foot off the accelerator, apply the brakes gradually with light force, and slowly move to a safe position off the road.
-

WARNING

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

WARNING

For Europe

- Do not modify the vehicle; it may interfere with the TPMS function.
- The wheels on the market do not have a TPMS sensor.

For your safety, we recommend that you use parts for replacement from an authorized HYUNDAI dealer.

- If you use the wheels on the market, use a TPMS sensor approved by an authorized HYUNDAI dealer or the equivalent approved for your vehicle. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle inspection conducted in your country.
-

If you have a flat tire (with Tire Mobility Kit)



- (1) Compressor
- (2) Sealant bottle

For safe operation, carefully read and follow the instructions in this manual before use.

The tire mobility kit is a temporary fix to the tire we recommend the tire be inspected by an authorized HYUNDAI dealer or the equivalent approved for your vehicle as soon as possible.

CAUTION

When two or more tires are flat, do not use the tire mobility kit because the sealant provided with the Tire Mobility Kit must be used for only one flat tire.

WARNING

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

WARNING

Have your tire repaired as soon as possible. The tire may lose air pressure at any time after inflating with the Tire Mobility Kit.

Introduction

With the Tire Mobility Kit you stay mobile even after experiencing a tire puncture. The compressor and sealing compound system effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensure that the tire is properly sealed you can drive cautiously on the tire (distance up to 200 km (120 mi.)) at a max. speed of 80 km/h (50 mph) in order to reach a service station or tire dealer for the tire replacement.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tire Mobility Kit is not designed or intended as a permanent tire repair method and is to be used for one tire only.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

Read the section Notes on the safe use of the Tire Mobility Kit.



WARNING

Do not use the TMK if a tire is severely damaged by driving run flat or with insufficient air pressure.

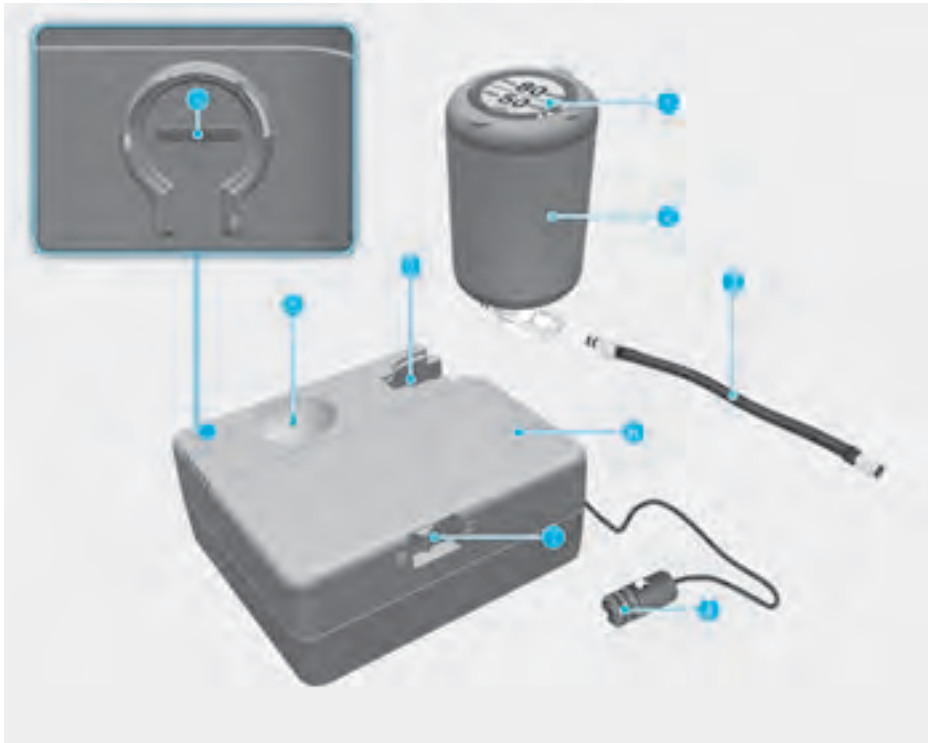
Only punctured areas located within the tread region of the tire can be sealed using the TMK.

Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you are on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than about 4 mm (0.16 in.).
- If the tire cannot be made roadworthy with the Tire Mobility Kit, we recommend that you contact an authorized HYUNDAI dealer.
- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the vehicle is ON (READY indicator ON). Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 minutes at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -30 °C (-22 °F).

- In case of skin contact with the sealant, wash the area thoroughly with plenty of water. If the irritation persists, seek medical attention.
- In case of eye contact with the sealant, flush your eyes for at least 15 minutes. If the irritation persists, seek medical attention.
- In case of swallowing the sealant, rinse the mouth and drink plenty of water. However, never give anything to an unconscious person and seek medical attention immediately.
- Long time exposure to the sealant may cause damage to bodily tissue such as kidney, etc.

Components of the Tire Mobility Kit



- (1) Speed-restriction label
 - (2) Sealant bottle and label with speed restriction
 - (3) Filling hose
 - (4) Connectors and cable for the power outlet direct connection
 - (5) Holder for the sealant bottle
 - (6) Compressor
 - (7) ON/OFF switch
 - (8) Pressure gauge for displaying the tire inflation pressure
 - (9) Deflation valve to reduce the tire inflation pressure
- Connectors, cable and connection hose are stored in the compressor housing.
Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

⚠ WARNING

Expired sealant

Do not use the Tire sealant after the sealant has expired (for example, pasted the expiration date on the sealant container). This can increase the risk of tire failure.

⚠ WARNING

Sealant

- Keep out of reach of children.
- Avoid contact with eyes.
- Do not swallow.

**Using the Tire Mobility Kit
When a tire is flat****⚠ CAUTION**

Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.

⚠ CAUTION

If only the tire pressure needs to be adjusted, refer to "How to adjust tire pressure" in this chapter.

Before using the Tire Mobility Kit, be fully aware of the explanation on the sealant.

1. Shake the sealant bottle (2).



2. Remove the sealant bottle (2) cap and open the sealant bottle holder (5) cap and screw the bottle onto the sealant bottle holder.



3. Make sure the compressor valve on the filling hose is locked.

4. Unscrew the valve cap and screw the filling hose (3) onto the tire valve.



CAUTION

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.

5. Make sure the compressor is turned off and plug the compressor power cord (4) into the vehicle power outlet.



6. With the vehicle ON (READY indicator ON), switch on the compressor and let it run for about 5-7 minutes to fill the sealant up to proper pressure. (refer to the "Tires and wheels" section in chapter 2). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tire and stay away from the tire when filling it.

 CAUTION

Tire pressure

Do not attempt to drive your vehicle if the tire pressure is below 200 kPa (29 psi). This could result in an accident due to sudden tire failure.

7. Switch off the compressor.
8. Detach the hoses from the sealant bottle connector and from the tire valve.

Return the Tire Mobility Kit to its storage location in the vehicle.

9. Immediately drive about 7-10 km (4-6 mi. or, about 10 minutes) to evenly distribute the sealant in the tire.

Do not exceed a speed of 80 km/h (50 mph). If possible, do not fall below a speed of 20 km/h (12 mph).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road.

Call for road side service or towing.



10. After driving about 7-10 km (4-6 mi. or about 10 minutes), stop at a safety location.

11. Connect the filling hose (3) of the compressor directly to the tire valve.



12. Plug the compressor power cord into the vehicle power outlet.
13. Adjust the tire inflation pressure to the recommended tire inflation.

With the vehicle is ON (READY indicator ON) proceed as follows.

- To increase the inflation pressure:
Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
- To reduce the inflation pressure
rotate the deflation valve (9) on the filling hose (3).

NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

i Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.

CAUTION

If the inflation pressure is not maintained, drive the vehicle a second time, refer to step 9.

Then repeat steps 10 to 13.

Use of the TMK may be ineffectual for tire damage larger than approximately 4 mm (0.16 in).

We recommend that you contact an authorized HYUNDAI dealer if the tire cannot be made roadworthy with the Tire Mobility Kit.

WARNING

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue driving.

Call for road side service or towing.

CAUTION

Tire pressure sensor (if equipped with TPMS)

The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors. We recommend that you get this done at an authorized HYUNDAI dealer.

i Information

When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel lug nut to 11~13 kgf·m (79~94 lbf·ft).

How to adjust tire pressure

1. Park your vehicle in a safe location.
2. Connect the filling hose (3) of the compressor directly to the tire valve.



3. Plug the compressor power cord into the vehicle power outlet.
4. Adjust the tire inflation pressure to the recommended tire inflation.

With the Vehicle is ON (READY indicator ON), proceed as follows.

- To increase the inflation pressure: Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
- To reduce the inflation pressure rotate the deflation valve (9) on the filling hose (3).

NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

i Information

- The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.
- When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel lug nut to 11~13kgf·m (79~94 lbf·ft).

⚠ CAUTION

Do not use the sealant when the tire pressure only needs to be adjusted.

⚠ WARNING

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue driving.

Call for road side service or towing.

Towing

Towing service



[A] Dollies

If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service.

Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

For 2WD vehicles, it is acceptable to tow the vehicle with the front wheels on the ground (without dollies) and the rear wheels off the ground.

For 4WD vehicles, it must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the rear wheels on the ground, use a towing dolly under the rear wheels.

Precautions when moving a short distance before towing a vehicle

Move short distances within 10 m (33 ft.) at a speed of 5 km/h (3 mph) or less only when loading on a tow truck or if the vehicle needs to be repositioned.

At this time, the gear must be in the N (Neutral) position and the parking brake must be released. If it is impossible to operate the reducer and parking brake, move the vehicle with the rear wheel lifted.

NOTICE

Do not lift the vehicle by the tow fitting or body and chassis parts. Otherwise the vehicle may be damaged.

⚠ CAUTION

- Do not tow the vehicle with the rear wheels on the ground as this may cause damage to the vehicle.



- Do not tow vehicles with sling-type equipment. Only use wheel lift or flatbed equipment.



- Do not lift using the trailer hitch or body and chassis part.

Removable towing hook

Front



Rear



- Open the tailgate, and remove the towing hook from the tool case.
- Remove the hole cover on the bumper.
 - Front: Push the lower part of the bumper hole cover.
 - Rear: Push the upper part of the bumper hole cover.
- Install the towing hook by turning it clockwise (A) into the hole until it is fully secured.
- Remove the towing hook and install the cover after use.

NOTICE

Failure to properly tighten the towing hook may result in vehicle damage and deformation of related parts.



CAUTION

Make sure the towing hook is tightened properly. If not, during towing the towing hook may be thrown off the vehicle resulting in serious injury or accident.

Emergency commodity

 if equipped

Your vehicle may be equipped with emergency commodities to help you respond to emergency situation.

Fire extinguisher

NOTICE

This vehicle may be equipped with a powder-type fire extinguisher intended for initial response to electrical fires in the vehicle. Do not use water or any unsuitable extinguishing agent, as doing so may cause electric shock and additional damage.

If the fire cannot be controlled immediately, stop attempting to extinguish it, keep a safe distance, and call the fire department. When reporting, clearly state that it is an electric vehicle fire (possible high-voltage battery/electrical fire).

If there is small fire and you know how to use the fire extinguisher, follow these steps carefully.

1. Pull out the safety pin at the top of the extinguisher that keeps the handle from being accidentally pressed.
2. Aim the nozzle towards the base of the fire.
3. Stand approximately 2.5 m (8 ft) away from the fire and squeeze the handle to discharge the extinguisher. If you release the handle, the discharge will stop.
4. Sweep the nozzle back and forth at the base of the fire. After the fire appears to be out, watch carefully since it may re-ignite.

First aid kit

Supplies for use in giving first aid such as scissors, bandage and adhesive tape, etc., are provided.

Triangle reflector

Place the triangle reflector on the road to warn oncoming vehicles during emergencies, such as when the vehicle is parked by the roadside due to problems.

Tire pressure gauge

 if equipped

Tires normally lose some air in day-to-day use, and you may have to add a air periodically and usually it is not a sign of a leaking tire, but of normal wear. Always check tire pressure when the tires are cold because tire pressure increases with temperature.

To check the tire pressure, take the following steps:

1. Unscrew the inflation valve cap that is located on the rim of the tire.
2. Press and hold the gauge against the tire valve. Some air will leak as you begin and more will leak if you don't press the gauge in firmly.
3. A firm non-leaking push will activate the gauge.
4. Read the tire pressure on the gauge to see whether the tire pressure is low or high.
5. Adjust the tire pressure to the specified pressure. Refer to "Tires and wheels" section in chapter 2.
6. Reinstall the inflation valve cap.

WARNING

- When an accident occur, park the vehicle to a safe place. To avoid the leak of electricity in high voltage battery, turn the vehicle off and pull the yellow label in the high voltage battery switch to shut down the high voltage battery. Also, disconnect the auxiliary battery (12 V) cable to shut down. Be sure to disconnect both (+) cable and (-) cable.
 - Do not touch the exposed electric wires. Do not touch high voltage wires (orange), connectors and other electric components.
 - When an accident occur, the lethal gas and fluid from damaged high voltage battery can be leaked. Be aware not to touch or exposed to the gas and fluid. When flammable or poison gas leak inside the vehicle, open windows and evacuate to a safe place. When leaked fluid comes in contact with your eyes, flush your eyes with clean water. When the fluid contacts with your skin, wash it with salt water. Get immediate medical attention afterward.
 - When the vehicle is flooded, immediately turn the vehicle off and evacuate to a safe place. For your safety we recommend to call the fire station and or contact an authorized HYUNDAI dealer.
 - When the fire spread to the high voltage battery, the additional fire may occur. In this situation, be sure to accompany a fire truck when the vehicle is being towed.
-

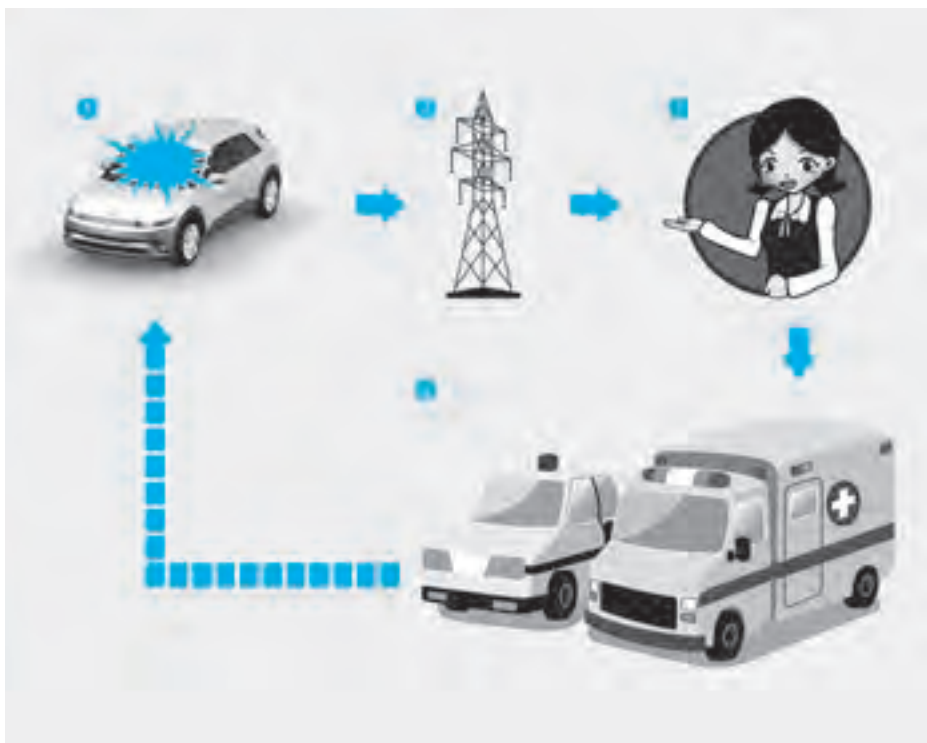
Pan-European eCall System (FOR EUROPE)

 If equipped

The vehicle is equipped with a device¹ connected with the Pan-European eCall system for making emergency call to response teams. The Pan-European eCall system is an automatic emergency call service made in event of a traffic accident or other² accidents on the roads of Europe. (only in countries with regulation on this system)

The system allows contacting with an officer of the single duty dispatch service in case of accidents on the roads of Europe. (only in countries with regulation on this system)

The Pan-European eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).

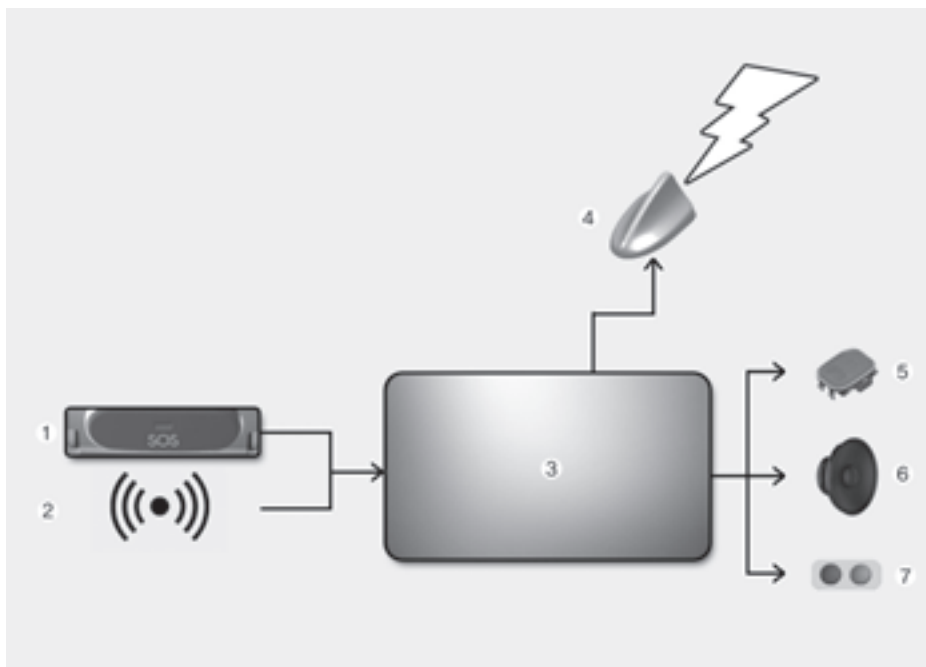


- (1) Road accident
- (2) Wireless network
- (3) Public Safety Answering Point (PSAP)
- (4) Rescue

Emergency situations

- *1 Pan-European eCall device in the Owner's Manual means equipment, installed in the vehicle, which provides connection with the Pan-European eCall system.
- *2 "Other accidents" mean any accidents on the roads of Europe (only in countries with regulation on this system) resulted in injured people and/or necessity of provision of assistance. In case of registration of any accident, it is necessary to stop a vehicle, press button SOS (location of the button is specified on the picture in the chapter "Pan-European eCall System (For Europe)") of the Owner's Manual. When making a call, the system gathers information about the vehicle (from which a call was made), after which connects the car with an officer of the Public Safety Answering Point (PSAP) to tell about the reason of the emergency call. Once the data which is stored in the Pan-European eCall system is delivered to the rescue center to assist the driver and passengers with proper rescue operations, the data will be deleted after rescue operation is completed.

Description of the eCall in-vehicle system (For Europe)



- (1) SOS Button
- (2) Crash signal
- (3) Emergency Call System
- (4) Antenna
- (5) Mic
- (6) Speaker
- (7) LEDs

Overview of the 112-based eCall in-vehicle system, its operation and functionalities: refer to this section. The 112-based eCall service is a public service of general interest and is accessible free of charge.

The 112-based eCall in-vehicle system is activated by default. It is activated automatically by means of invehicle sensors in the event of a severe accident.

It will also be triggered automatically when the vehicle is equipped with a TPS system which does not function in the event of a severe accident.

The 112-based eCall in-vehicle system can also be triggered manually, if needed. Instructions for manual activation of the system: refer to this section.

In the event of a critical system failure that would disable the 112-based eCall in-vehicle system, the following warning will be given to the occupants of the vehicle: refer to this section.

Information on data processing (For Europe)

Any processing of personal data through the 112-based eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC (1) and 2002/58/EC (2) of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article 7 (d) of Directive 95/46/EC (3).

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single European emergency number 112.

Types of data and its recipients

The 112-based eCall in-vehicle system may collect and process only the following data:

- Vehicle Identification Number
- Vehicle type (passenger vehicle or light commercial vehicle)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)
- Vehicle recent locations and direction of travel
- Log file of the automatic activation of the system and its timestamp
- Any additional data (if applicable): Not applicable

Recipients of data processed by the 112-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number 112. Additional information (if available): Not applicable

1. Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).
2. Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).
3. Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

Arrangements for data processing

The 112-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the 112-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

Pan-European eCall System (For Europe)



Elements of the Pan-European eCall system, installed in passenger compartment:

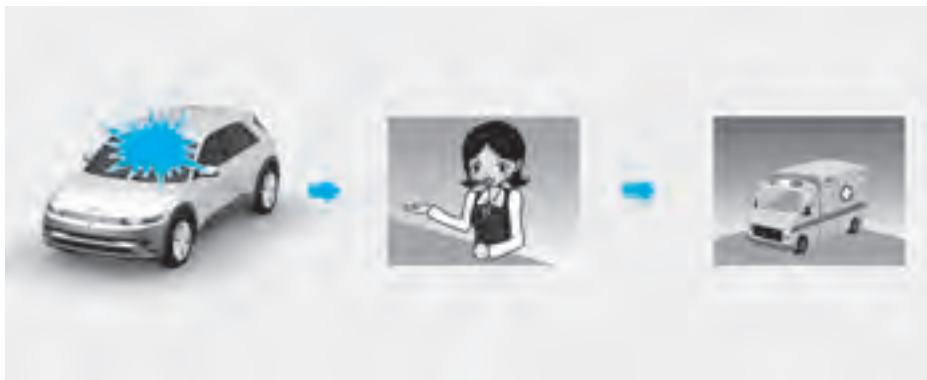
- (1) SOS button
- (2) LED

SOS button: the driver/passenger makes an emergency call to the single duty dispatch service by pressing the button.

LED: The LED illuminates for 3 seconds when the Start/Stop button is in the ON position. After that they will switch off at normal operation of the system.

If there are some problems in the system, the SOS indicator light illuminates in the instrument cluster.

Automatic accident reporting (For Europe)



The Pan-European eCall device automatically makes an emergency call to the Public Safety Answering Point (PSAP) for proper rescuing operations in event of vehicle accident.

For proper emergency services and support the Pan-European eCall system automatically transmits the accident data to the Public Safety Answering Point (PSAP) when a traffic accident is detected.

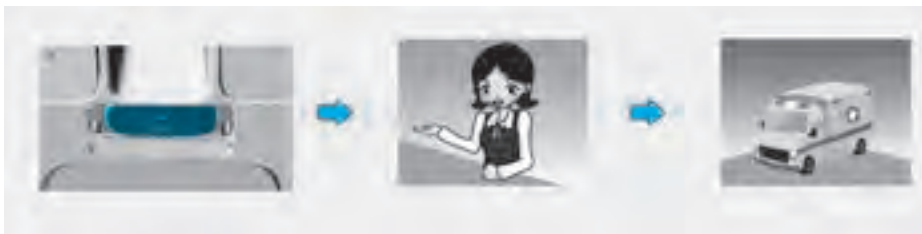
In this case, the emergency call cannot be hung up by pressing the SOS button and the Pan-European eCall system remains connected until the emergency service officer, receiving the call, disconnects the emergency call.

In minor traffic accidents the Pan-European eCall system may not execute an emergency call. However, an emergency call may be made manually by pressing the SOS button.

⚠ CAUTION

Operation of the system is impossible in case of absence of cellular transmission and GPS and Galileo signals.

Manual accident reporting (For Europe)



The driver or passenger manually can make an emergency call in the Public Safety Answering Point (PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the Pan-European eCall system can be canceled by pressing the SOS button again only before the call connection.

After activation of emergency call in the manual mode (for proper emergency services and support), the Pan-European eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point (PSAP) (during emergency call) by pressing the SOS button.

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again. (For Russia)

It can be canceled by pressing the button again in 3 seconds. It can't be canceled after that. (Except Russia)

In case of road accident or other accident for activation of emergency call in manual mode it is necessary:

1. Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic;
2. Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with of the technical requirements of the device. After that connection with the officer of the Pan-European eCall system is made for clearing up reasons (conditions) of the emergency call.
3. After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.

WARNING

Emergency power supply of the Pan-European eCall system from the battery

- The Pan-European eCall system battery supplies power during 1 hour in case main power source of the vehicle is cut off due to the collision during the emergency situations.
- The Pan-European eCall system battery should be replaced every 4 years.

For more information refer to the "Scheduled maintenance services" in chapter 9.

LED illumination in red (system malfunction)

If red LED illuminates in normal driving conditions, this can indicate malfunction of the Pan-European eCall system. We recommend to have the Pan-European eCall system checked at an authorized HYUNDAI dealer.

Otherwise correct operation of the Pan-European eCall system device, installed in your vehicle is not guaranteed. Owner of the vehicle incurs liability for consequences, occurred as a result of nonobservance of conditions, mentioned above.

Arbitrary Removal or Modification

The Pan-European eCall system calls emergency services for assistance. Thus, any arbitrary removal or changes to the Pan-European eCall system settings may affect your driving safety. Also, it may even make an erroneous emergency call to the Public Safety Answering Point (PSAP). Thereby, we kindly ask you not to make any changes by yourself or by the third parties in the settings of the equipment of the Pan-European eCall system, installed in your vehicle.

NOTICE

The mobile network operators will phase out the 2G and 3G in many countries around the world. The decision to phase out 2G and/or 3G network technology was solely at the discretion of mobile network operators and therefore beyond the control of HYUNDAI. Due to decision of the network operators to discontinue their 2G and/or 3G, the automatic/manual eCall will no longer be available in the event of an accident or a situation requiring an emergency service.

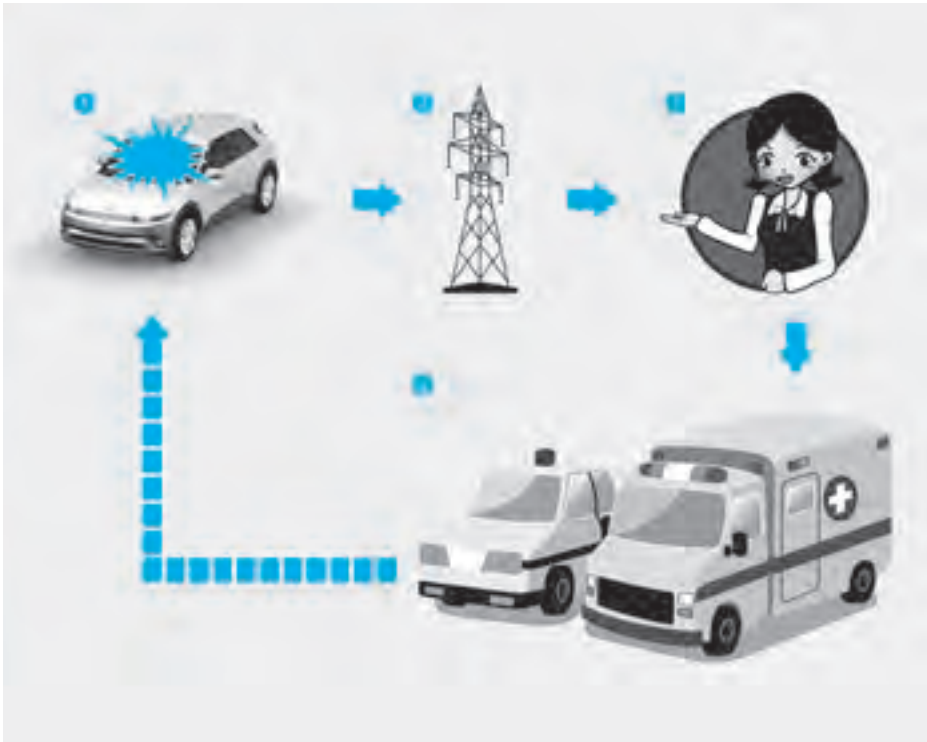
ECall system (for UAE & Saudi)

 if equipped

The vehicle is equipped with a device^{*1} connected with the eCall system for making emergency call to response teams. The eCall system is an automatic emergency call service made in event of a traffic accident or other ^{**2} accidents on the roads. (only in countries with regulation on this system)

The system allows contacting with an officer of the single duty dispatch service in case of accidents on the roads. (only in countries with regulation on this system)

The eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).

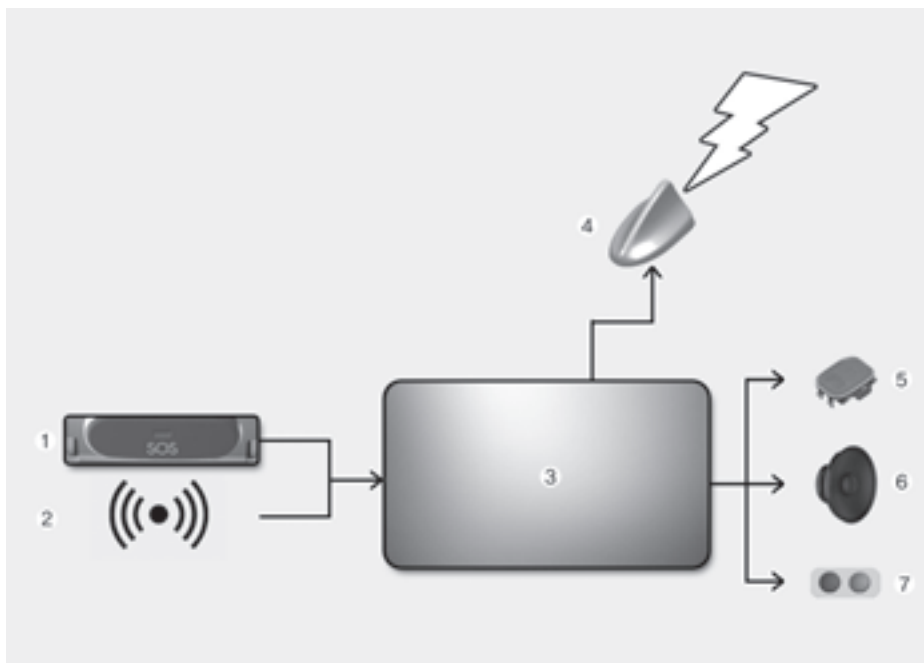


- (1) Road accident
- (2) Wireless network
- (3) Public Safety Answering Point (PSAP)
- (4) Rescue

*1 The eCall device in the Owner's Manual means equipment, installed in the vehicle, which provides connection with the eCall system.

*2 "Other accidents" mean any accidents on the roads UAE & Saudi (only in countries with regulation on this system) resulted in injured people and/or necessity of provision of assistance. In case of registration of any accident, it is necessary to stop a vehicle, press button SOS (location of the button is specified on the picture in the chapter "eCall system (for UAE & Saudi)" of the Owner's Manual. When making a call, the system gathers information about the vehicle (from which a call was made), after which connects the vehicle with an officer of the Public Safety Answering Point (PSAP) to tell about the reason of the emergency call. Once the data which is stored in the eCall system is delivered to the rescue center to assist the driver and passengers with proper rescue operations, the data will be deleted after rescue operation is completed.

Description of the eCall in-vehicle system (For UAE & Saudi)



- (1) SOS Button
- (2) Crash signal
- (3) Emergency Call System
- (4) Antenna
- (5) Mic
- (6) Speaker
- (7) LEDs

Overview of the +971 999(+966 911)-based eCall in-vehicle system, its operation and functionalities: refer to this section. The +971 999(+966 911)-based eCall service is a public service of general interest and is accessible free of charge.

The +971 999(+966 911)-based eCall in-vehicle system is activated by default. It is activated automatically by means of in-vehicle sensors in the event of a severe accident. It will also be triggered automatically when the vehicle is equipped with a TPS system which does not function in the event of a severe accident.

The +971 999(+966 911)-based eCall in-vehicle system can also be triggered manually, if needed. Instructions for manual activation of the system: refer to this section.

In the event of a critical system failure that would disable the +971 999(+966 911)-based eCall in-vehicle system, the following warning will be given to the occupants of the vehicle: refer to this section.

Information on data processing (for UAE & Saudi)

Any processing of personal data through the +971 999(+966 911)-based eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC (1) and 2002/58/EC (2) of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article 7(d) of Directive 95/46/EC (3).

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single UAE & Saudi emergency number +971 999(+966 911).

Types of data and its recipients

The +971 999(+966 911)-based eCall in-vehicle system may collect and process only the following data:

- Vehicle Identification Number
- Vehicle type (passenger vehicle or light commercial vehicle)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)
- Vehicle recent locations and direction of travel
- Log file of the automatic activation of the system and its time-stamp
- Any additional data (if applicable): Not applicable

Recipients of data processed by the +971 999(+966 911)-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single UAE & Saudi emergency number +971 999(+966 911). Additional information (if available): Not applicable

- (1) Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).
- (2) Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).
- (3) Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

Arrangements for data processing

The +971 999(+966 911)-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered. Additional remarks (if any): Not applicable

The +971 999(+966 911)-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The +971 999(+966 911)-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the +971 999(+966 911)-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

ECall system (for UAE & Saudi)



Elements of the eCall System, installed in passenger compartment:

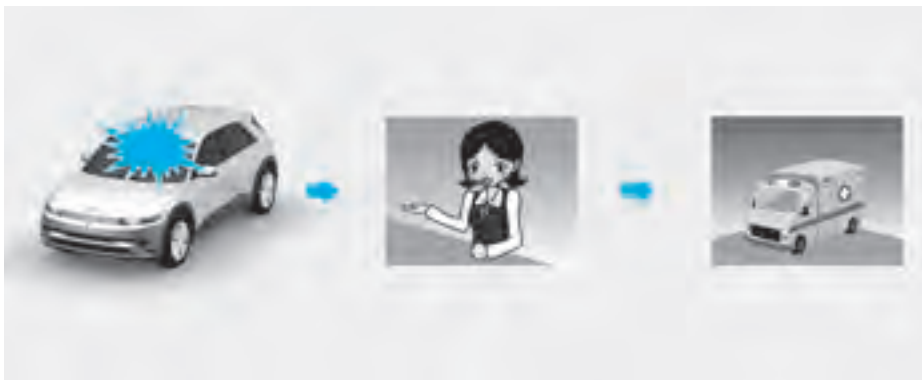
- (1) SOS button
- (2) LED

SOS button: the driver/passenger makes an emergency call to the single duty dispatch service by pressing the button.

LED: The LED illuminates for 3 seconds when the Start/Stop button is in the ON position. After that they will switch off at normal operation of the system.

If there are any problems in the system, the SOS indicator light illuminates in the instrument cluster.

Automatic accident reporting (for UAE & Saudi)



The eCall device automatically makes an emergency call to the Public Safety Answering Point (PSAP) for proper rescuing operations in the event of a vehicle accident.

For proper emergency services and support the eCall system automatically transmits the accident data to the Public Safety Answering Point (PSAP) when a traffic accident is detected.

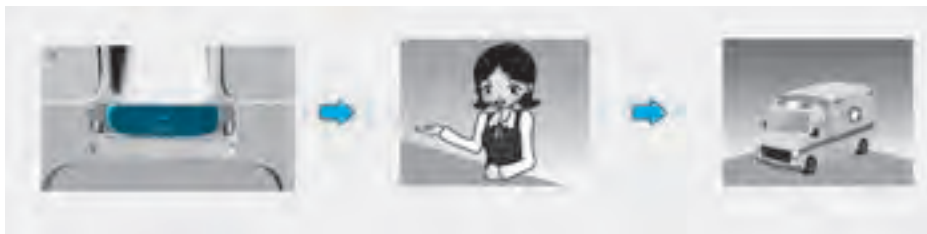
In this case, the emergency call cannot be hung up by pressing the SOS button and the eCall system remains connected until the emergency service officer, receiving the call, disconnects the emergency call.

In minor traffic accidents the eCall system may not execute an emergency call. However, an emergency call may be made manually by pressing the SOS button.

CAUTION

Operation of the system is impossible in case of absence of cellular transmission and GPS and Galileo signals.

Manual accident reporting



The driver or passenger manually can make an emergency call in the Public Safety Answering Point (PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the eCall system can be cancelled by pressing the SOS button again only before the call connection.

After activation of emergency call in the manual mode (for proper emergency services and support), the eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point (PSAP) (during emergency call) by pressing the SOS button.

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again. (For Russia)

It can be canceled by pressing the button again in 3 seconds. It can't be canceled after that. (Except Russia)

In case of road accident or other accident for activation of emergency call in manual mode it is necessary:

1. Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic;
2. Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with the technical requirements of the device. After that connection with the officer of the eCall system is made for clearing up reasons (conditions) of the emergency call.
3. After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.

WARNING

Emergency power supply of the eCall system from the battery

- The eCall system battery supplies power during 1 hour in case the main power source of the vehicle is cut off due to the collision during the emergency situations.
- The eCall system battery should be replaced every 4 years.

For more information, refer to the "Scheduled maintenance services" in chapter 9.

LED illumination in red (system malfunction)

If red LED illuminates in normal driving conditions, this can indicate malfunction of the eCall system. We recommend that you check the eCall system at an authorized HYUNDAI dealer immediately.

Otherwise, correct operation of the eCall system device, installed in your vehicle is not guaranteed. Owner of the vehicle incurs liability for consequences, occurred as a result of non-observance of conditions, mentioned above.

Arbitrary Removal or Modification

The eCall system calls emergency services for assistance. Thus, any arbitrary removal or changes to the eCall system settings may affect your driving safety. Also, it may even make an erroneous emergency call to the Public Safety Answering Point (PSAP). Thereby, we kindly ask you not to make any changes by yourself or by the third parties in the settings of the equipment of the eCall, installed in your vehicle.

eCall certification label



مقاله: استخراج

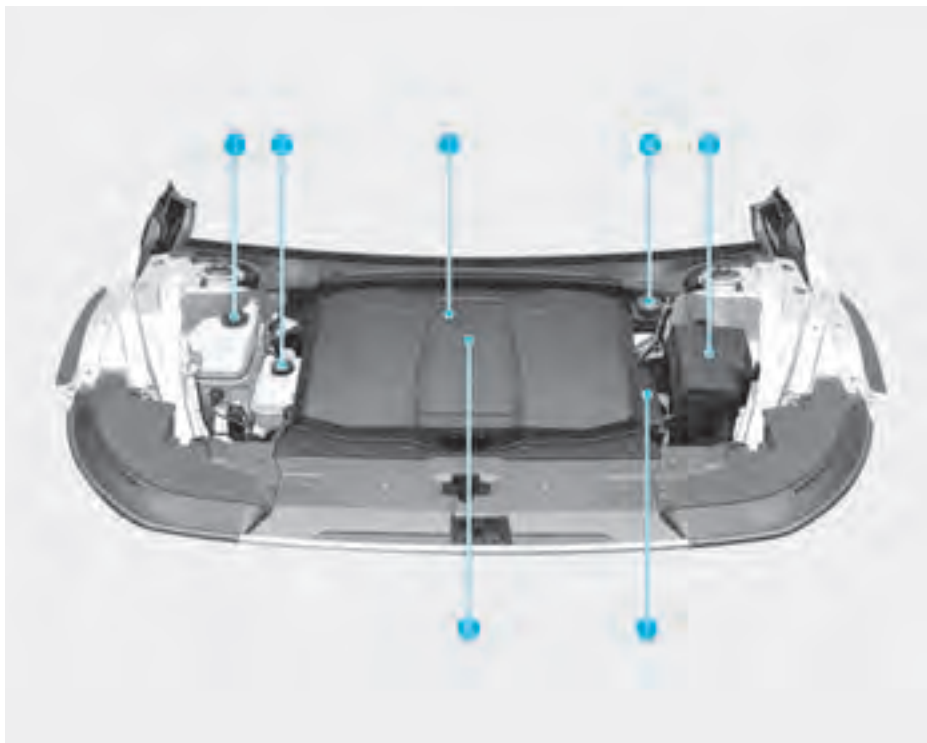
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- 198: 20-21 دسیسیل، باقیمانده واد

9. Maintenance

Motor compartment.....	9-3
Maintenance services	9-4
Owner's responsibility	9-4
Owner maintenance precautions	9-4
Owner maintenance	9-5
Owner maintenance schedule	9-5
Scheduled maintenance services.....	9-7
Normal maintenance schedule.....	9-8
Maintenance under severe usage conditions	9-10
EV Special Care (optional).....	9-11
Explanation of scheduled maintenance items	9-12
Cooling system.....	9-12
Coolant	9-12
Reducer fluid	9-12
Brake hoses and lines	9-12
Brake fluid.....	9-12
Brake discs, pads, calipers and rotors.....	9-12
Suspension mounting bolts.....	9-12
Steering gear box, linkage & boots/lower arm ball joint.....	9-12
Drive shafts and boots.....	9-12
Air conditioning refrigerant.....	9-12
Coolant	9-13
Changing coolant.....	9-15
Brake fluid	9-16
Checking the brake fluid level.....	9-16
Reducer fluid.....	9-17
Washer fluid	9-17
Checking the washer fluid level	9-17
Cabin air filter.....	9-18
Filter inspection	9-18
Filter replacement.....	9-18
Wiper blades	9-20
Blade inspection	9-20
Blade replacement.....	9-21
Battery (12 V)	9-23

For best battery service	9-24
Battery capacity label	9-25
Battery recharging	9-25
Reset items	9-27
Tires and wheels.....	9-27
Tire care	9-28
Recommended cold tire inflation pressures	9-28
Check tire inflation pressure.....	9-29
Tire rotation	9-30
Wheel alignment and tire balance	9-31
Tire replacement	9-31
Wheel replacement	9-32
Tire traction.....	9-32
Tire maintenance.....	9-33
Tire sidewall labeling.....	9-33
Low aspect ratio tires.....	9-36
Fuses	9-37
Instrument panel fuse replacement.....	9-38
Motor compartment panel fuse replacement.....	9-39
Fuse/relay panel description	9-41
Light bulbs	9-55
Headlight, position light, turn signal light, daytime running light (DRL) replacement	9-57
Side repeater light replacement.....	9-58
Headlight aiming (For Europe)	9-59
Rear combination light replacement	9-59
High mounted stop lamp replacement	9-60
License plate lamp replacement	9-61
Front trunk lamp replacement	9-62
Interior light replacement.....	9-63
Appearance care	9-64
Exterior care.....	9-64
Interior care	9-71

Motor compartment



The actual motor compartment in the vehicle may differ from the illustration.

- (1) Windshield washer fluid reservoir
- (2) Coolant reservoir
- (3) Climate control system air filter
- (4) Brake fluid reservoir
- (5) Fuse box
- (6) Front trunk
- (7) Battery (12 V)

Maintenance services

You should exercise the utmost care to prevent damage to your vehicle and injury to yourself whenever performing any maintenance or inspection procedures.

We recommend that you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. An authorized HYUNDAI dealer meets HYUNDAI's high service quality standards and receives technical support from HYUNDAI in order to provide you with a high level of service satisfaction.

Owner's responsibility

Maintenance service and record retention are the owner's responsibility.

You should retain documents that show proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service charts shown on the following pages. You need this information to establish your compliance with the servicing and maintenance requirements of your vehicle warranties.

Detailed warranty information is provided in your Service Passport.

Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

Owner maintenance precautions

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury. This chapter provides instructions only for the maintenance items that are easy to perform.

Your vehicle should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your vehicle and may, in addition, violate conditions of the limited warranties covering the vehicle.

NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Service Passport provided with the vehicle. If you're unsure about any service or maintenance procedure, we recommend to have it done by an authorized HYUNDAI dealer.

Owner maintenance

WARNING

Performing maintenance work on a vehicle can be dangerous. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, we recommend that it is done by an authorized HYUNDAI dealer. ALWAYS follow these precautions for performing maintenance work:

- Park your vehicle on level ground. Shift the vehicle to P (Park), apply the parking brake, and press the Start/Stop button to the OFF position.
- Block the tires (front and back) to prevent the vehicle from moving.
Remove loose clothing or jewelry that can become entangled in moving parts.
- Keep flames, sparks, or smoking materials away from the battery parts.

WARNING

Make sure to turn the Start/Stop button to the 'OFF' position to shut down the vehicle before performing maintenance work on the vehicle.

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized HYUNDAI dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

The electric control system in the vehicle may cause malfunction or other negative impact on the artificial heart and the artificial internal organs. Be sure to inquire the impact of the electric control system on the artificial organs from the medical product corporation.

Owner maintenance schedule

When you stop for charging:

- Check the coolant level in the coolant reservoir.
- Check the windshield washer fluid level.
- Check for low or under-inflated tires.

WARNING

Be careful when checking your coolant level if the motor compartment is hot. This may result in coolant being blown out of the opening and cause serious burns and other injuries.

While operating your vehicle:

- Check for vibrations in the steering wheel. Notice if there is any increased steering effort or looseness in the steering wheel, or change in its straight-ahead position.
- Notice if your vehicle constantly turns slightly or "pulls" to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or "hard-to-push" brake pedal.
- Check the shift gear P (Park) function.
- Check the parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

At least monthly:

- Check coolant level in the coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.
- Check the inflation pressures of all tires including the spare for tires that are worn, show uneven wear, or are damaged.
- Check for loose wheel nuts.

At least twice a year: (for example, every Spring and Autumn)

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with a clean cloth dampened with washer fluid.
- Check headlamp alignment.
- Check the seat belts for wear and function.

At least once a year:

- Clean body and door drain holes.
- Lubricate door hinges and hood hinges.
- Lubricate door and hood locks and latches.
- Lubricate door rubber weather strips.
- Check the air conditioning system.
- Clean the battery (12 V) and terminals.
- Check the brake fluid level.

Scheduled maintenance services

Follow Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply. If any of the following conditions apply, you must follow the Maintenance Under Severe Usage Conditions.

- Repeated driving short distance of less than 8 km (5 mi.) in normal temperature or less than 16 km (10 mi.) in freezing temperature
- Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
- Driving in areas using salt or other corrosive materials or in very cold weather
- Driving in heavy dust conditions
- Driving in heavy traffic area
- Driving in heavy traffic area with the ambient temperature higher than 32 °C (90 °F) while consuming more than 50% of electric energy.
- Towing a trailer or using a camper, or driving with loads on the roof
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Frequently driving under high speed or rapid acceleration/deceleration
- Frequently driving in stop-and-go condition

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

Normal maintenance schedule

The following maintenance services must be performed to ensure good vehicle performance.

Keep receipts for all vehicle services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
	Months	12	24	36	48	60	72	84	96
	Km×1,000	10	20	30	40	50	60	70	80
MAINTENANCE ITEM									
Cooling system		Inspect every 10,000 km or 12 months							
Coolant *1		At first, replace at 2,00,000 km or 120 months; After that, replace every 40,000 km or 24 months.							
Reducer fluid			I		I		I		I
12 V auxiliary battery condition		I	I	I	I	I	I	I	I
All electrical system		I	I	I	I	I	I	I	I
Brake lines, hoses and connections		I	I	I	I	I	I	I	I
Brake pedal		I	I	I	I	I	I	I	I
Parking brake		I	I	I	I	I	I	I	I
Brake fluid		Inspect every 10,000 km or 12 months Replace every 30,000 km or 24 months.							
Brake discs and pads		I	I	I	I	I	I	I	I

*1: When replacing or adding coolant, we recommend that you visit an authorized HYUNDAI dealer.

For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change TR: Tire Rotation

MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
	Months	12	24	36	48	60	72	84	96
	Km×1,000	10	20	30	40	50	60	70	80
MAINTENANCE ITEM									
Steering gear rack, linkage and boots		I	I	I	I	I	I	I	I
Driveshaft and boots		I	I	I	I	I	I	I	I
Tire (pressure & tread wear) and Tires Rotation		I,TR	I,TR	I,TR	I,TR	I,TR	I,TR	I,TR	I,TR
Front suspension ball joints		I	I	I	I	I	I	I	I
Bolt and nuts on chassis and body		I	I	I	I	I	I	I	I
Air conditioner refrigerant		I	I	I	I	I	I	I	I
Air conditioner compressor		I	I	I	I	I	I	I	I
Cabin air filter		R	R	R	R	R	R	R	R

Maintenance under severe usage conditions

The following items must be serviced more frequently on cars mainly used under severe driving conditions.

Refer to the chart below for the appropriate maintenance intervals.

R : Replace

I : Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Reducer fluid	R	Every 120,000 km (80,000 mi.)	B, D, G, H
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints	I	Inspect more frequently depending on the condition	B, C, D, E, F
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	B, C, D, E, F, G, H, I, J
Driveshaft and boots	I	Inspect more frequently depending on the condition	B, C, D, E, F, G, H, I
Cabin air filter	R	Replace more frequently depending on the condition	B, D, F

Severe driving conditions

A. Repeatedly driving short distance of less than 8 km (5 mi.) in normal temperature or less than 16 km (10 mi.) in freezing temperature

B. Driving on rough, dusty, muddy, unpaved, graveled or salt spread roads

C. Driving in areas using salt or other corrosive materials or in very cold weather

D. Driving in heavy dust condition

E. Driving in heavy traffic area with the ambient temperature higher than 32 °C (90 °F) while consuming more than 50% of electric energy.

F. Driving on uphill, downhill, or mountain roads repeatedly

G. Towing a trailer, or using a camper or roof rack

H. Driving as a patrol car, taxi, other commercial use or vehicle towing

I. Frequently driving under high speed or rapid acceleration/deceleration

J. Frequently driving in stop-and-go conditions

EV Special Care (optional)

Maintenance of EV Special Care items are optional but recommended. It includes non-conductive treatments or procedures that do not affect or void the vehicle manufacturer's warranty.

EV Special Care

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTENANCE INTERVALS			Number of months or driving distance, whichever comes first									
			Months	12	24	36	48	60	72	84	96	108
			Mi.×1,000	10	20	30	40	50	60	70	80	90
			Km×1,000	15	30	45	60	75	90	105	120	135
MAINTENANCE ITEM												
High Voltage Battery	Insulation resistance check			I	I	I	I	I	I	I	I	I
	Voltage deviation check			I	I	I	I	I	I	I	I	I
Cooling System	Air-cooled	Coolant amount check		I	I	I	I	I	I	I	I	I
	Water cooling	Coolant amount check		I	I	I	I	I	I	I	I	I
		EWP operation status check		I	I	I	I	I	I	I	I	I
		3way valve operation check		I	I	I	I	I	I	I	I	I
DTC	Fault code check (Full DTC scanning)			I	I	I	I	I	I	I	I	I
Lower body	Battery lower part damage check			I	I	I	I	I	I	I	I	I
	High voltage cable damage check			I	I	I	I	I	I	I	I	I

Explanation of scheduled maintenance items

Cooling system

Check cooling system components, such as radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

Coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

Reducer fluid

The reducer fluid should be inspected according to the intervals specified in the maintenance schedule.

Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

Brake fluid

Check the brake fluid level in the brake fluid reservoir. The level should be between the MIN and the MAX marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 4 specification.

Brake discs, pads, calipers and rotors

Check the pads, the disc, and the rotor for any excessive wear-out. Inspect calipers for any fluid leakage.

For more information on checking the pads or lining wear limit, visit <http://service.hyundai-motor.com>

Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

Steering gear box, linkage & boots/lower arm ball joint

With the vehicle stopped and the vehicle off, check for excessive free-play in the steering wheel. Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage.

Replace any damaged parts.

Drive shafts and boots

Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

Air conditioning refrigerant

Check the air conditioning lines and connections for leakage and damage.

Coolant



Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between the MAX and MIN marks on the side of the coolant reservoir when the parts in the motor compartment is cool.

If the coolant level is low, add enough distilled (deionized) water mixed with antifreeze to bring the level to the MAX mark. If frequent additions are required, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

WARNING



Keep hands, clothing, and tools away from the rotating fan blades of the cooling fan. The electric motor for the cooling fan may continue to operate or start up when the vehicle is off and can cause serious injury.

The electric motor for the cooling fan is controlled by vehicle coolant temperature, refrigerant pressure, and vehicle speed. As the vehicle coolant temperature decreases, the electric motor automatically shuts off. This is a normal condition.

WARNING



- Check the coolant level when the motor compartment is cooled. Coolant level is influenced by temperature, and if the coolant reservoir cap is removed when coolant temperature is high, hot coolant and steam may blow out under pressure causing serious injury.
 - Make sure the coolant cap is properly closed after refilling coolant. Otherwise the motor could be overheated while driving.
-

WARNING

Make sure the coolant cap is properly closed after refilling coolant. Otherwise, the motor could be overheated while driving.

1. Check if the coolant cap label is straight in front.



2. Make sure that the tiny protrusions inside the coolant cap are securely interlocked.



Recommended coolant

- When adding coolant, use only deionized water, distilled water or soft water for your vehicle and never mix hard water in the coolant filled at the factory.
- An incorrect coolant mixture can result in severe malfunction or motor damage.
- Do not use alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60 % antifreeze or less than 35 % antifreeze, which would reduce the effectiveness of the solution.

For mixing percentage, refer to the following table:

Ambient temperature	Mixture percentage (volume)	
	Antifreeze	Water
-15 °C (5 °F)	35	65
-25 °C (-13 °F)	40	60
-35 °C (-31 °F)	50	50
-45 °C (-49 °F)	60	40

i Information

If in doubt about the mix ratio, a 50 % water and 50 % antifreeze mix is the easiest to mix together because it is the same quantity of each.

Changing coolant

We recommend that the coolant be changed by a authorized HYUNDAI dealer according to the maintenance schedule.

WARNING

Do not use coolant or antifreeze in the washer fluid reservoir.

Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

Coolant may also cause damage to paint and body trim.

NOTICE

To prevent damage to motor parts, put a thick towel around the coolant cap before refilling the coolant to prevent the coolant from overflowing into motor parts.

Brake fluid

Checking the brake fluid level



Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the side of the reservoir.

Before removing the reservoir cap and adding brake fluid, clean the area around the reservoir cap thoroughly to prevent brake fluid contamination.

If the level is low, add the specified brake fluid to the MAX level. The level will fall with accumulated kilometers. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low, we recommend that the brake system be checked by an authorized HYUNDAI dealer.

WARNING

If the brake system requires frequent additions of fluid this could indicate a leak in the brake system. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

Do not let brake fluid enter into your eyes. If brake fluid gets in your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

NOTICE

- Do not allow brake fluid to contact the vehicle's body paint, as it will result in paint damage.
 - NEVER use brake fluid which has been exposed to open air for an extended time, as its quality cannot be guaranteed. It should be disposed of properly.
 - Do not use the wrong type of brake fluid. A few drops of mineral based oil in your brake system can damage brake system parts.
-

Information

Use only the specified brake fluid (refer to "Recommended lubricants and capacities" section in chapter 2).

Reducer fluid

There is no reducer fluid level gauge in the vehicle. Check the reducer fluid every 60,000 km regularly. If the vehicle is driven under severe condition, we recommend that you check the maintenance under severe usage condition and consult an authorized HYUNDAI dealer.

Washer fluid

Checking the washer fluid level



Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available. However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

WARNING

To prevent serious injury or death, take the following safety precautions when using washer fluid:

- Do not use coolant or antifreeze in the washer fluid reservoir. Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident or damage to paint and body trim.
 - Do not allow sparks or flame to contact the washer fluid or the washer fluid reservoir. Washer fluid may contain alcohol and can be flammable.
 - Do not drink washer fluid and avoid contact with skin. Washer fluid is harmful to humans and animals.
 - Keep washer fluid away from children and animals.
-

Cabin air filter

Filter inspection

The cabin air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced sooner. Replace the cabin air filter by following the procedure below and be careful to avoid damaging other components.

Filter replacement

1. Open the hood.



2. Lift up the front trunk cover while depressing the front trunk lever (1).

3. Remove the cover by pulling the front trunk handle (2).

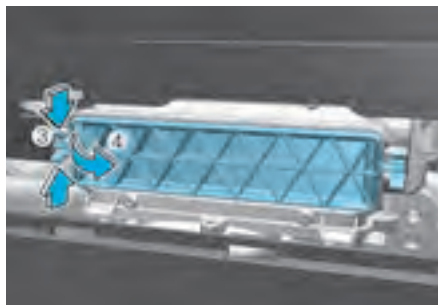
Type A



Type B



4. Press and hold the lock (3) on the left side of the cover (4).



5. Replace the cabin air filter.
6. Reassemble in the reverse order of disassembly.

NOTICE



- Install a new cabin air filter in the correct direction with the arrow symbol (↓) facing downwards, to prevent noise and reduce effectiveness.
- Always be sure that the front trunk cover is firmly closed after replacing the cabin air filter.
Otherwise it may cause interior damage in the motor compartment, noise trouble, or entrance of foreign substances.

Wiper blades

Blade inspection

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers.

Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with glass cleaner or mild detergent, and rinse thoroughly with clean water. Replace blades as needed.

NOTICE

To prevent damage to the wiper blades, arms, or other components, do not:

- Use gasoline, kerosene, paint thinner, or other solvents on or near them.
- Attempt to move the wipers manually.

Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked. Replace the wipers with new ones.

NOTICE

To prevent damage:

- Never use non-specified wiper blades.
- Lift the wiper arms when in the top wiping position.
- Always return the wiper arms to the windshield before driving.

Front windshield wiper blade replacement



[A] Type A
[B] Type B

Within 20 seconds of turning off the vehicle, lift up (or push down) and hold the wiper lever to the MIST (or 1x) position for about 2 seconds until the wipers move to the top wipe position.

At this time you can lift the wipers off the windshield.

Type A

1. Lift up the wiper blade clip. Then lift up the wiper blade.
2. While pushing the lock (1), pull down the wiper blade (2).



3. Remove the wiper blade from the wiper arm.



4. Install a new wiper blade assembly in the reverse order of removal.
5. Return the wiper arm on the windshield.

Type B

1. Lift up the wiper blade clip (1). Then pull down the wiper blade (2). Remove the wiper blade from the wiper arm.



2. Install a new wiper blade assembly in the reverse order of removal.



3. Gently put down the wiper back onto the windshield.
4. With the Start/Stop button in the ON position, turn the wiper switch to any ON position to return the wipers to the bottom resting position.

Rear window wiper blade replacement

1. Raise the wiper arm and then rotate the wiper blade assembly (1).
2. Pull out the wiper blade assembly (2).



3. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place (3).



4. If the replacement is complete, put down the wiper arm onto the rear windshield, and turn the vehicle ON and operate the wipers to check the blade is installed correctly.

Battery (12 V)

WARNING

To prevent **SERIOUS INJURY** or **DEATH** to you or bystanders, always follow these precautions when working near or handling the battery:

Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.



- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.
- NEVER attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition switch works with high voltage. NEVER touch these components with the **READY** indicator ON or when the Start/Stop button is in the ON position.

NOTICE

Always follow these instructions when handling your vehicle's battery to prevent damage to your battery:

- When you do not use the vehicle for a long time in a low temperature area, disconnect the battery and keep it indoors.
- Always charge the battery fully to prevent battery case damage in low temperature areas.
- Prevent liquids from wetting the battery terminals. The performance of the battery may be degraded, and may cause injury. Be cautious when loading liquids in the tailgate.
- Do not tilt the battery.
- If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

For best battery service



- Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

Battery capacity label



i Information

The actual battery label in the vehicle may differ from the illustration.

1. MF60L-DIN: The HYUNDAI model name of battery
2. 12 V: The nominal voltage
3. 60 Ah (20 HR): The nominal capacity (in Ampere hours)
4. RC 92min: The nominal reserve capacity (in min.)
5. CCA 550A (SAE/EN): The cold-test current in amperes by SAE

Battery recharging

By battery charger

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged over a short time (because, for example, the headlamps or interior lights were left on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electrical load while the vehicle is being used, recharge it at 20-30 A for two hours.

WARNING

Always follow these instructions when recharging your vehicle's battery to avoid the risk of **SERIOUS INJURY** or **DEATH** from explosions or acid burns:

- Before performing maintenance or recharging the battery, turn off all accessories and stop the vehicle.
- Keep all flames, sparks, or smoking materials away from the battery.
- Always work outdoors or in an area with plenty of ventilation.
- Wear eye protection when checking the battery during charging.
- The battery must be removed from the vehicle and placed in a well ventilated area.
- Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin boiling violently.

- The negative battery cable must be removed first and installed last when the battery is disconnected. Disconnect the battery charger in the following order:
 1. Turn off the battery charger main switch.
 2. Unhook the negative clamp from the negative battery terminal.
 3. Unhook the positive clamp from the positive battery terminal.

We recommend that you use batteries for replacement from an authorized HYUNDAI dealer.

CAUTION

Do not open or remove the cap on top of the battery. This may cause leaks of internal electrolyte that could result in severe injury.

NOTICE

AGM battery

Absorbent Glass Mat (AGM) batteries are maintenance-free and we recommend to be serviced by an authorized HYUNDAI dealer. Only charge using fully automatic battery chargers that are specifically for AGM batteries.

By jump starting

After a jump start from a good battery, drive the vehicle for 20-30 minutes before it is shutoff. The vehicle may not restart if you shut it off before the battery had a chance to adequately recharge. See "Jump starting (12 V battery)" in chapter 8 for more information on jump starting procedures.

Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose of the battery according to your local law(s) or regulation.

Reset items

The following items may need to be reset after the battery has been discharged or the battery has been disconnected.

- Drive info/After recharging/Accumulated info (refer to chapter 4)
- Integrated memory system (refer to chapter 5)
- Power window (refer to chapter 5)
- Vision roof (refer to chapter 5)
- Power tailgate (refer to chapter 5)
- Climate control system (refer to chapter 5)
- Clock (refer to Infotainment system manual)
- Infotainment system (refer to Infotainment system manual)

Tires and wheels



WARNING

Tire failure may cause loss of vehicle control resulting in an accident. To reduce risk of **SERIOUS INJURY** or **DEATH**, take the following precautions:

- Inspect your tires monthly for proper inflation as well as wear and damage.
- The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the driver's side center pillar. Always use a tire pressure gauge to measure tire pressure. Tires with too much or too little pressure wear unevenly causing poor handling.
- Check the pressure of the spare every time you check the pressure of the other tires on your vehicle.
- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, or traction.
- ALWAYS replace tires with the same size, type, construction and tread pattern as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.

Tire care

For proper maintenance, safety, and maximum electric energy economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.



All specifications (sizes and pressures) can be found on a label attached to the driver's side center pillar.

Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold tires" means the vehicle has not been driven for at least 3 hours or driven less than 1.6 km (1 mi.).

Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). Do not release air from warm tires to adjust the pressure or the tires will be under-inflated. For recommended inflation pressure, refer to "Tires and wheels" section in chapter 2.

WARNING

Recommended pressures must be maintained for the best ride, vehicle handling, and minimum tire wear.

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that could result in loss of vehicle control resulting in an accident.

Severe under-inflation can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control resulting in an accident. This risk is much higher on hot days and when driving for long periods at high speeds.

CAUTION

- Under-inflation results in excessive wear, poor handling and reduced electric energy economy. Wheel deformation is also possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, we recommend it be checked by an authorized HYUNDAI dealer.
- Over-inflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

Check tire inflation pressure

Check your tires, including the spare tire, once a month or more.

How to check

Use a good quality tire pressure gauge to check tire pressure. You can not tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated when they are under-inflated.

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary. If the pressure is low, add air until you reach the recommended pressure. Make sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

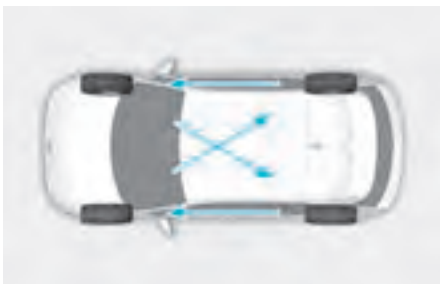
If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

Tire rotation

To equalize tread wear, HYUNDAI recommends that the tires be rotated every 10,000 km (6,000 mi.) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of the tire. Replace the tire if you find any of these conditions. Replace the tire if fabric or cord is visible. After rotation, be sure to bring the front and rear tire pressures to specification and check wheel lug nut tightness (proper torque is 11~13kgf·m [79~94 lbf·ft]).



Disc brake pads should be inspected for wear whenever tires are rotated.

Information

The outside and inside of the unsymmetrical tire is distinguishable. When installing an unsymmetrical tire, be sure to install the side marked "outside" face the outside. If the side marked "inside" is installed on the outside, it will have a negative effect on vehicle performance.

WARNING

- Do not use the compact spare tire for tire rotation.
- Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.

Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

NOTICE

Incorrect wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

Tire replacement



[A] Tread wear indicator

If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1.6 mm (1/16 in.) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.

WARNING

To reduce the risk of DEATH or SERIOUS INJURY:

- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, and traction.
 - Always replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.
 - When replacing tires (or wheels), it is recommended to replace the two front or two rear tires (or wheels) as a pair. Replacing just one tire can seriously affect your vehicle's handling.
 - Tires degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tires be replaced after 6 years of normal service.
 - Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. Failure to follow this warning may cause sudden tire failure, which could lead to a loss of vehicle control resulting in an accident.
-

WARNING

The original tire should be repaired or replaced as soon as possible to avoid failure of the spare and loss of vehicle control resulting in an accident. The compact spare tire is for emergency use only. Do not operate your vehicle over 80 km/h (50 mph) when using the compact spare tire.

Wheel replacement

When replacing the metal wheels for any reason, make sure the new wheels are equivalent to the original factory units in diameter, rim width and offset.

Tire traction

Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. To reduce the possibility of losing control, slow down whenever there is rain, snow or ice on the road.

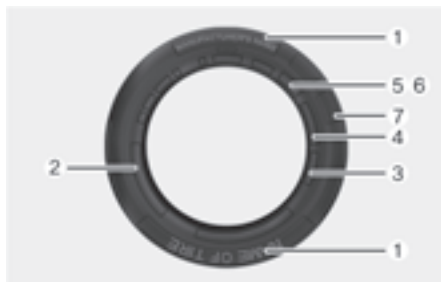
Tire maintenance

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have your dealer check the wheel alignment.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.

Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



1. Manufacturer or brand name

Manufacturer or brand name is shown.

2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your car. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation:

(These numbers are provided as an example only; your tire size designator could vary depending on your vehicle.)

235/55R19 105W

235 - Tire width in millimeters.

55 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

19 - Rim diameter in inches.

105 - Load Index, a numerical code associated with the maximum load the tire can carry.

W - Speed Rating Symbol. See the speed rating chart in this section for additional information.

Wheel size designation

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation:

7.5J X 19

7.5 - Rim width in inches.

J - Rim contour designation.

19 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger vehicle tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	180 km/h (112 mph)
T	190 km/h (118 mph)
H	210 km/h (130 mph)
V	240 km/h (149 mph)
W	270 km/h (168 mph)
Y	300 km/h (186 mph)

3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

DOT: XXXX XXXX 0000

The front part of the DOT shows a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 5026 represents that the tire was produced in the 50th week of 2026.

4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREADWEAR 200

TRACTION AA

TEMPERATURE A

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times ($1\frac{1}{2}$) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the sidewalls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicle may vary with respect to grade.

Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.



WARNING

The traction grade assigned to this tire is based on straight ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature - A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, over-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This may cause loss of vehicle control resulting in an accident.

Low aspect ratio tires

 if equipped

The aspect ratio is lower than 50 on low aspect ratio tires.

Because low aspect ratio tires are optimized for handling and braking, their sidewall is a little stiffer than a standard tire. Also low aspect ratio tires tend to be wider and consequently have a greater contact patch with the road surface. In some instances they may generate more road noise compared with standard tires.

⚠ CAUTION

The side wall of a low aspect ratio tire is shorter than the normal one. Thus, the low-aspect wheel and tire are easily damaged. Follow the below instructions.

- When driving on a rough road or driving off a road, be careful not to damage the tires and wheels. After driving, inspect the tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, drive the vehicle slowly so as not to damage the tires and wheels.
- When there is an impact on a tire, inspect the tire condition. We recommend that you contact an authorized HYUNDAI dealer.
- Inspect the tire condition and pressure every 3,000 km (1,800 mi.) to prevent tire damage.
- It is difficult to recognize a tire damage only with your eyes. When there is a slight hint of a tire damage, check and replace the tire to prevent the damage caused by air leakage.
- When a tire is damaged while driving on a rough road, off a road, or over obstacles, such as a pothole, manhole, or curb stone, your warranty does not cover the damage.
- The tire information is specified on the tire side wall.

Fuses

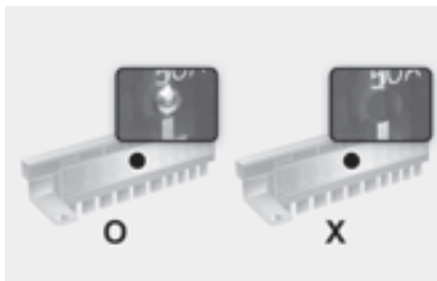
Blade type



Cartridge type



Multi type



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the other in the motor compartment.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse will be melted or broken.

If the electrical system does not work, first check the driver's side fuse panel. Before replacing a blown fuse, turn the vehicle and all switches off, and then disconnect the negative battery cable. Always replace a blown fuse with one of the same rating.

If the replacement fuse blows, this indicates an electrical problem. Avoid using the system involved. We recommend that you immediately consult an authorized HYUNDAI dealer.

WARNING

NEVER replace a fuse with anything but another fuse of the same rating.

- A higher capacity fuse could cause damage and possibly cause a fire.
- Do not install a wire or aluminum foil instead of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and possibly a fire.

NOTICE

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

Instrument panel fuse replacement

1. Turn the vehicle off.
2. Turn all other switches off.
3. Open the fuse panel cover.

Driver's side



4. Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.
5. Pull the suspected fuse straight out. Use the removal tool provided in the motor compartment fuses panel cover.



6. Check the removed fuse and replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the motor compartment fuse panel).
7. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it is not tight, we recommend that you contact an authorized HYUNDAI dealer.

In an emergency, if you do not have a spare fuse, use a fuse of the same rating from a circuit you may not need for operating the vehicle.

If the headlights or other electrical components do not work and the fuses are undamaged, check the fuse panel in the motor compartment.

Motor compartment panel fuse replacement

Blade fuse / Cartridge fuse

Blade type fuse



Cartridge type fuse



1. Turn off the vehicle.
2. Turn off all other switches.
3. Remove the fuse panel cover by pressing the tap and pulling up.
4. Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.
5. Pull the suspected fuse straight out. Use the removal tool provided in the motor compartment fuses panel cover.

6. Check the removed fuse and replace it if it is blown. To remove or insert the fuse, use the fuse puller in the motor compartment fuse panel.
7. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it is not tight, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

NOTICE

Always securely install the fuse panel cover. Water may contact the fuse and cause an electrical failure.

Multi fuse

Multi type



If the multi fuse or midi fuse is blown, we recommend to contact an authorized HYUNDAI dealer.

Fuse/relay panel description

Instrument panel fuse panel



Inside the fuse panel cover, you can find the panel label describing fuse names and ratings.

i Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. When you inspect the fuse panel on your vehicle, refer to the fuse panel label.



Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
USB CHARGER 2	² USB CHARGER	15A	FRT CONSOLE USB Charger Connector
AAF	AAF	10A	Active Air Flap Unit LH/RH, Active Air Flap Unit (Upper)
A/C1	¹ A/C	7.5A	A/C Control Module
Stop Switch	BRAKE SWITCH	7.5A	BDC, Stop Light Switch
MEMORY	MEMORY	10A	ADP Unit, Head-Up Display, Mood Lamp Unit, A/C Control Module, CCNC USB Jack, BDC, Cluster Unit, ADAS Unit (Parking), Rear Corner Radar LH/RH, Rear Door Mood Lamp LH/RH, Driver/Passenger Door Speaker Mood Lamp, Driver/Passenger Door Armrest Mood Lamp, Smart Phone Wireless Charger
AIRBAG IND.	^{IND} 	7.5A	Overhead Console
E-SHFTER3	³ E-SHIFTER	10A	SCU, SBW Shift Lever
IG3 9	⁹ IG3	10A	BMU, Rear Inverter
MODULE7	⁷ MODULE	10A	ICC Unit, Driver/Passenger Door Outside Handle, Driver Door Module
E-SHFTER2	² E-SHIFTER	10A	SBW Shift Lever
CCU	CCU	10A	CCU
BDC2	² BDC	7.5A	BDC2

Fuse Name	Symbol	Fuse Rating	Circuit Protected
MODULE2	² MODULE	10A	CCU, Stop Light Switch
IG3 8	⁸ IG3	10A	Front Console Switch, ICCU, V2L Unit, Electronic Oil Pump (Rear), VCMS, SCU, CCU
DCU	wireless DCU	10A	DCU
CHILD LOCK		15A	Child Lock/Unlock Relay

Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
MULTIMEDIA	MULTIMEDIA	25A	CCNC Head Unit
MODULE4	⁴ MODULE	10A	AMP, Headlight LH/RH, IFS ECU, ICC Unit, CCNC Head Unit, Smart Phone Wireless Charger, Electro Chromic Mirror, Data Link Connector, Rear Power Seat LH/RH Module, Crash Pad Switch, ADP Unit, Driver Power Seat Module, Passenger Power Seat Module
CLUSTER	CLUSTER	7.5A	Cluster Unit, Head-Up Display
IG3 7	⁷ IG3	10A	CCNC Head Unit, Incar Temperature Sensor, PM Sensor, A/C Heater, A/C Control Module
SBCM DRV	SBCM DRV	20A	Driver SBCM
SBCM PASS	SBCM PASS	20A	Passenger SBCM
T/GATE		10A	Tailgate Release Relay
V/ROOF1	¹ VISION ROOF	20A	Sunroof Unit
MODULE8	⁸ MODULE	10A	Multifunction Switch, Driver Door Module
MODULE1	¹ MODULE	10A	ADP Unit, AMP, CCNC Head Unit, ADAS Unit (Parking), CCNC Keyboard, BDC, CCU, DCU, P/R Junction Block (RLY.11)

Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
PS P/SEAT		30A	Passenger Power Seat Switch, Passenger Power Seat Module
FR SEAT HT		25A	Front Air Ventilation Seat Control Module, Front Seat Heater Control Module
WASHER		15A	Multifunction Switch
MODULE9		10A	Data Link Connector, Power Tailgate Unit, Rear Power Seat LH/RH Module, Driver/Passenger Power Seat Module, Driver/Passenger Power Seat Switch, Charging Connector LED Module, Front/Rear Seat Heater Control Module, Rear Seat LH/RH Slide Switch, Front Air Ventilation Seat Control Module, Multifunction Switch, Rain Sensor
BDC1		10A	BDC, Bluetooth Unit #1-#2, UWB Sensor (Front/Rear LH/RH)
EPCU2		10A	Rear Inverter
AIR BAG1		10A	SRS Control Module
USB CHARGER		15A	Front/Rear Console USB Charger #1-#2
RR P/SERT RH		20A	Rear Power Seat RH Module
P/WDW RH		25A	Passenger Power Window Switch, Driver(LHD)/Passenger(RHD) Safety Power Window Module, Rear Power Window Switch LH, Rear Safety Power Window Module LH

Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
MODULE5	⁵ MODULE	7.5A	BDC
BMS	BMS	10A	BMU
2ND FOLDING RH	 BRAKE	25A	Rear Seat RH Remote Folding Actuator
AMP	AMP	25A	AMP
V/ROOF2	² VISION ROOF	20A	Not Used
MODULE3	³ MODULE	10A	Front Corner Radar LH/RH, Rear Corner Radar LH/RH, Front/Rear Inverter, Smart Cruise Control Radar, Driver/Passenger Door DSM Monitor, Crash Pad Switch, ADAS Unit (Parking), Front View Camera (ADAS)
DR P/SEAT		30A	Driver Power Seat Switch, Driver Power Seat Module
P/WDW LH	^{LH} 	25A	Driver(LHD)/Passenger(RHD) Safety Power Window Module, Rear Power Window Switch LH, Rear Safety Power Window Module LH
AIR BAG2	² 	10A	SRS Control Module
DR LOCK		20A	Door Lock/Unlock Relay, Dead Lock Relay
2ND FOLDING LH	^{2nd} 	25A	Rear Seat LH Remote Folding Actuator
E-SHIFTER4	⁴ E-SHIFTER	10A	SCU

Fuse Name	Symbol	Fuse Rating	Circuit Protected
RR P/SERT LH		20A	Rear Power Seat LH Module
RR SEAT HT		25A	Rear Seat Heater Control Module

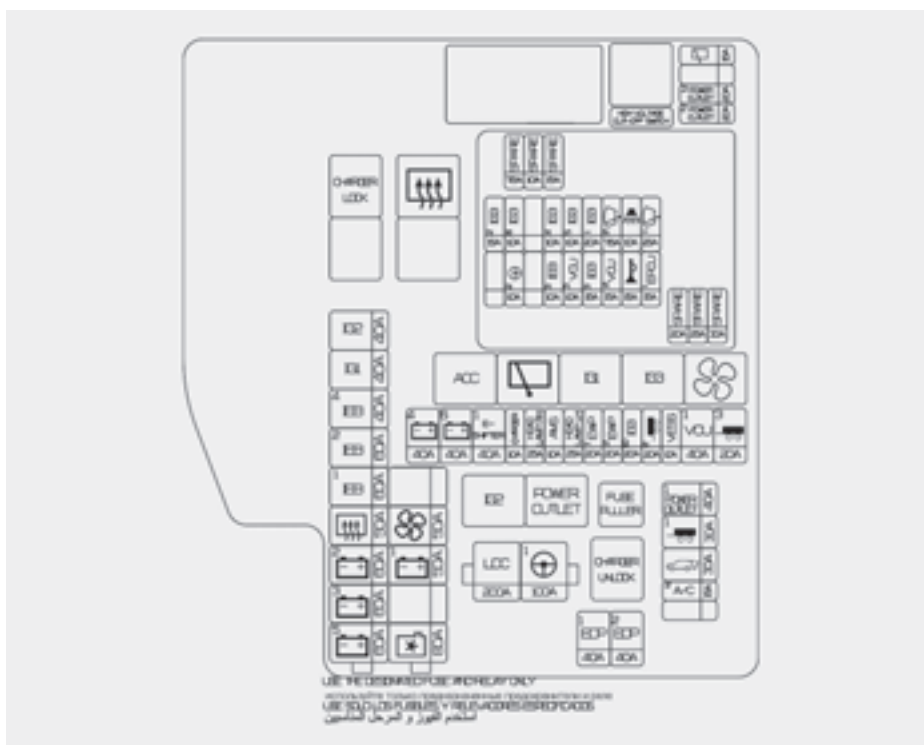
Motor compartment fuse panel



Inside the fuse panel cover, you can find the panel label describing fuse names and ratings.

i Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. When you inspect the fuse panel on your vehicle, refer to the fuse panel label.



Motor compartment fuse panel

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
MULTI FUSE-1	LDC	LDC	200A	P/R Junction Block (Fuse : F10, SB7, SB8, SB9, SB10), ICCU (LDC)
	MDPS1	¹ 	100A	MDPS Unit
MULTI FUSE-2	C/FAN		80A	Cooling Fan Motor
	B+1	¹ 	50A	PDC (Fuse : F6, F7, F14, F15, F22, F23, F30, F40, F50)
	BLOWER		50A	P/R Junction Block (RLY.9)

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
MULTI FUSE-3	B+5	⁵ 	60A	PCB Block (IG3 Main Relay, Fuse : F1, F2, F3, F4, F6)
	B+3	³ 	60A	PDC (IPS14, Fuse : F2, F9, F10, F17, F18, F25, F26, F33, F34, F43, F44, F51, F52, F58, F59)
	B+2	² 	60A	PDC (Long Term Load Latch Relay, IPS13, Fuse : F4, F12, F20, F28, F37, F47, F54, F55)
	RR HTD		50A	P/R Junction Block (RLY.3)
	IEB1	¹ IEB	60A	IEB Unit
	IEB2	² IEB	60A	IEB Unit
	IEB4	⁴ IEB	40A	Multipurpose Check Connector
	IG1	IG1	40A	P/R Junction Block (RLY.5, RLY.7)
	IG2	IG2	40A	P/R Junction Block (RLY.10)

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	CHARGER	CHARGER	10A	P/R Junction Block (RLY1, RLY12), ICCU, VCMS
	HEAD LAMP RH	HEAD LAMP RH	25A	Head Lamp RH
	AMS	AMS	10A	12V Battery Sensor
	HEAD LAMP LH	HEAD LAMP LH	25A	Head Lamp LH
	EWP1	¹ EWP	20A	Electronic Water Pump #1 (HV Battery)
	EWP2	² EWP	20A	Electronic Water Pump #2 (HV Battery)
	IG3 10	¹⁰ IG3	20A	P/R Junction Block (RLY.8)
	TRAILER2	² 	20A	Trailer Connector
	VESS	VESS	10A	VESS Unit
	TRAILER2	³ 	20A	Trailer Connector
	A/C2	² A/C	15A	A/C Control Module
	RR WIPER		15A	P/R Junction Block (RLY.6), Rear Wiper
	P/OUTLET3	³ POWER OUTLET	20A	Rear Power Outlet

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	P/OUTLET1	¹ POWER OUTLET	40 A	PE ROOM J/B (RELAY: P/OUTLET)
	TRAILER1	¹ 	30A	Trailer Connector
	POWER TAILGATE		30 A	POWER TAILGATE MODULE
	P/OUTLET2	² POWER OUTLET	20A	Front Power Outlet

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	B/A HORN		10 A	PCB BLOCK (RLY: B/A HORN RLY)
	WIPER1	¹ 	25A	PCB Block (Wiper Main Relay)
	EPCU1	¹ EPCU	15A	Front Inverter
	HORN		15A	PCB Block (Horn Relay)
	WIPER2	² 	7.5A	BCM
	VCU2	² VCU	15A	VCU
	IG3 1	¹ IG3	20A	PDC (Fuse - F8, F16, F24)
	IG3 3	³ IG3	15A	Electronic Water Pump (Rear PE)
	IG3 5	⁵ IG3	10A	BSA Coolant 3Way Valve
	VCU3	³ VCU	10A	VCU
	IG3 4	⁴ IG3	10A	Front Charging Lamp Module, Front Inverter, Coolant Valve, Electronic Water Pump #1~#2, Electronic A/C Compressor
	IEB3	³ IEB	10A	IEB Unit, Multipurpose Check Connector
	IG3 6	⁶ IG3	10A	Cooling Fan Motor, Electronic Oil Pump (Front)

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	MDPS2	² 	10A	MDPS Unit
	IG3 2	² IG3	15A	VCU

Light bulbs

We recommend that you contact an authorized HYUNDAI dealer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlight assembly to get to the bulb(s).

Removing/installing the headlight assembly may result in damage to the vehicle.

WARNING

- Prior to replacing a light bulb, depress the brake pedal, shift to P (Park), apply the parking brake, press the Start/Stop button to the OFF position and take the key with you when leaving the vehicle to avoid sudden movement of the vehicle and to prevent possible electric shock.
- Be aware the bulbs may be hot and may burn your fingers.

NOTICE

Be sure to replace the burned-out bulb with one of the same wattage to prevent damage to the fuse or electrical wiring system.

NOTICE

To prevent damage, do not clean the headlight lens with chemical solvents or strong detergents.

Information

This vehicle may be equipped with desiccant to reduce fogging inside the headlight due to moisture. The desiccant is consumable and its performance may change based on the used period or environment. If fogging inside the headlight due to moisture continues for a long time, we recommend that you consult an authorized HYUNDAI dealer.

i Information

The headlight and tail light lenses could appear to have condensation inside if the vehicle is washed after driving or if the vehicle is driven in wet weather. This condition is caused by a higher temperature inside the light and a cooler outside temperature. Moisture that condenses in the light is removed after driving with the light on. If the moisture is not removed, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

i Information

- A normally functioning light may flicker momentarily to stabilize the vehicle's electrical control system. If the light goes out, or continues to flicker, we recommend that you have the system inspected by an authorized HYUNDAI dealer.
 - The position light may not turn on when the position light switch is turned on, but the position light and headlight switch may turn on when the headlight switch is turned on. This may be caused by network failure or vehicle electrical control system malfunction. If this occurs, we recommend that you have the system inspected by an authorized HYUNDAI dealer.
-

i Information

Adjust the headlight aim after an accident or the headlight is replaced.

i Information

Traffic Change (for Europe)

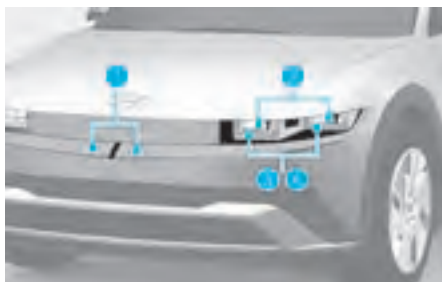
The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demand several technical solutions (for example, automatic change system, adhesive sheet, down aiming). This headlamps are designed not to dazzle opposite drivers. So, you need not change your headlamps in a country with opposite traffic direction.

Headlight, position light, turn signal light, daytime running light (DRL) replacement

Type A



Type B



- (1) Garnish hidden lighting (if equipped)
- (2) Headlight (High/Low)
- (3) Position light/Daytime running light
- (4) Turn signal lamp (Type A: Bulb, Type B: LED (if equipped))

If the LED light does not operate, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

Turn signal light (bulb type)

1. Engage the parking brake and disconnect the negative battery cable.
2. Remove wheel guard clips (under the front bumper).
3. Push the wheel guard aside and remove the bulb socket by turning it counterclockwise.
4. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
5. Install a new bulb by inserting it into the socket and rotating it until it locks into place.
6. Push the socket into the assembly and turn the socket clockwise.
7. Install the wheel guard in the reverse order.

⚠ WARNING

- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.
- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a turn signal lamp.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.
- Replacing the bulb may cause damage to the bulb relevant parts of the vehicle, and also may cause injuries. To replace the turn signal lamp, we recommend to visit an authorized HYUNDAI dealer.

Side repeater light replacement

Type A



Type B

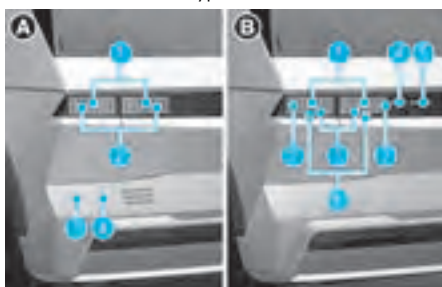


If the side repeater light (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

Rear combination light replacement

Type A/B



- (1) Stop light
- (2) Tail/Stop light
- (3) Turn signal light (Type A: Bulb, Type B: LED (if equipped))
- (4) Backup light (Type A: Bulb, Type B: LED (if equipped))
- (5) Rear fog light
- (6) Garnish tail (if equipped)

If the LED light does not operate, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

Turn signal light, Backup light (bulb type)

1. Disconnect the negative battery cable.
2. Loosen the retaining clips under the bumper and screws on the wheel house trim.
3. Prey trim under the bumper toward the vehicle.
4. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
5. Remove the bulb by pulling it straight out.
6. Insert a new bulb in the socket.
7. Reinstall the light assembly to the body of the vehicle.

WARNING

- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.
- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a turn signal lamp.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.
- Replacing the bulb may cause damage to the bulb relevant parts of the vehicle, and also may cause injuries. To replace the turn signal lamp, we recommend to visit an authorized HYUNDAI dealer.

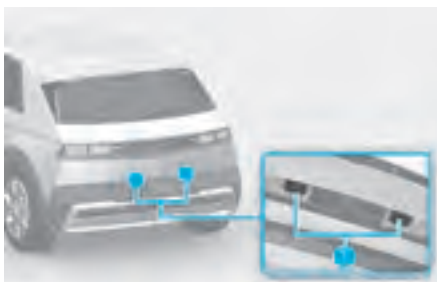
High mounted stop lamp replacement



If the LED light (1) does not operate, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

License plate lamp replacement



If the LED lamp (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamps have to be replaced with the unit.

A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

Front trunk lamp replacement



If the LED lamp does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamps have to be replaced with the unit.

A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

Interior light replacement

Map lamp (if equipped)



Room lamp (without vision roof)



Personal lamp (with vision roof)



Vanity mirror lamp



Mood lamp (if equipped)



Glove box lamp



Cargo area lamp



If the LED lamp (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamps have to be replaced with the unit.

A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

Appearance care

Exterior care

NOTICE

If you park your vehicle near a stainless steel sign or glass facade building, the vehicle's exterior plastic parts such as a bumper, spoiler, garnish, lamp or outside rearview mirror might be damaged due to sunlight reflected from the sign or building. To prevent damage of the exterior plastic parts, you should avoid parking in areas where light may be reflected or use a car cover. (The exterior plastic parts applied to your vehicle may vary.)

Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

Finish maintenance

Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, should be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

High-pressure washing

- When using high-pressure washers, make sure to maintain sufficient distance from the vehicle.

Insufficient clearance or excessive pressure can lead to component damage or water penetration.

- Do not spray the camera, sensors or its surrounding area directly with a high pressure washer. Shock applied from high pressure water may cause the device to not operate normally.
- Do not bring the nozzle tip close to boots (rubber or plastic covers) or connectors as they may be damaged if they come into contact with high pressure water.



WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water before getting on the road. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

NOTICE

- Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.
- Be careful when washing the side windows of your vehicle.
- Especially, with high-pressure water, water may leak through the windows and wet the interior.
- To prevent damage to the plastic parts, do not clean with chemical solvents or strong detergents.

NOTICE



- Water washing in the motor compartment including high pressure water washing may cause the failure of electrical circuits located in the motor compartment.
 - Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as water or other liquids may flow in to the motor compartment through the front trunk and damage electrical/electronic components.
-

NOTICE

Matte paint finish vehicle (if equipped)

Automatic car wash which uses rotating brushes should not be used as this can damage the surface of your vehicle. A steam cleaner which washes the vehicle surface at high temperature may result the oil to adhere and leave stains that is difficult to remove.

Use a soft cloth (e.g. microfiber towel or sponge) when washing your vehicle and dry with a microfiber towel. When you hand wash your vehicle, you should not use a cleaner that finishes with wax. If the vehicle surface is too dirty (sand, dirt, dust, contaminant, etc.), clean the surface with water before washing the car.

Waxing

A good coat of wax is a barrier between your paint and contaminate. Keeping a good coat of wax on your vehicle will help protect it.

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

NOTICE

- Wiping dust or dirt off the body with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

NOTICE

Matte paint finish vehicle (if equipped)

Do not use any polish protector such as a detergent, an abrasive and a polish. In case wax is applied, remove the wax immediately using a silicon remover and if any tar or tar contaminant is on the surface use a tar remover to clean. However, be careful not to apply too much pressure on the painted area.

Finish damage repair

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

NOTICE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

NOTICE

Matte paint finish vehicle (if equipped)

In case of matte paint finish vehicles, it is impossible to modify only the damaged area and repair of the whole part is necessary. If the vehicle is damaged and painting is required, we recommend that you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. Take extreme care, as it is difficult to restore the quality after the repair.

Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the frame and floor pan, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.



WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

- Do not use abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels.
- Clean the wheel when it has cooled.
- Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, clean the wheels after driving on salted roads.
- Do not wash the wheels with high-speed car wash brushes.
- Do not use any cleaners containing acid or alkaline detergents.

Corrosion protection**Protecting your vehicle from corrosion**

By using the most advanced design and construction practices to combat corrosion, HYUNDAI produces vehicles of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

Common causes of corrosion

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

High-corrosion areas

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed. For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

To help prevent corrosion

Keep your vehicle clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle is particularly important.

- If you live in a high-corrosion area — where road salts are used, near the ocean, areas with industrial pollution, acid rain, etc.—, you should take extra care to prevent corrosion. In winter, hose off the underside of your vehicle at least once a month and be sure to clean the underside thoroughly when winter is over.
- When cleaning underneath the vehicle, pay particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.
- When cleaning lower door panels, rocker panels and frame members, be sure that drain holes are kept open so that moisture can escape and not be trapped inside to accelerate corrosion.

Keep your garage dry

Don't park your vehicle in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

Keep paint and trim in good condition

Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

Interior care***Interior general precautions***

Prevent caustic solutions such as perfume and cosmetic oil, from contacting the interior parts because they may cause damage or discoloration. If they do contact the interior parts, wipe them off immediately. See the instructions for the proper way to clean vehicle interior surfaces.

NOTICE

- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.
- When cleaning leather products (steering wheel, seats etc.), use neutral detergents or low alcohol content solutions. If you use high alcohol content solutions or acid/ alkaline detergents, the color of the leather may fade or the surface may get stripped off.
- During window tinting, make sure window tinting solution does not flow into electronic devices inside the vehicle. It may cause breakdown and malfunction of devices.

Cleaning the upholstery and interior trim

Vehicle interior surfaces

 if equipped

Remove dust and loose dirt from interior surfaces with a whisk broom or a vacuum cleaner. If necessary, clean interior surfaces with a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use).

Fabric

 if equipped

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its color can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

NOTICE

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

Leather

 if equipped

- Features of seat leather
 - Leather is made from the outer skin of an animal, which goes through a special process to be available for use. Since it is a natural product, each part differs in thickness or density. Wrinkles may appear as a natural result of stretching and shrinking depending on the temperature and humidity.
 - The seat is made of stretchable fabric to improve comfort.
 - The parts contacting the body are curved and the side supporting area is high which provides driving comfort and stability.
 - Wrinkles may appear naturally from usage. It is not a fault of the products.

NOTICE

- Wrinkles or abrasions which appear naturally from usage are not covered by warranty.
 - Belts with metallic accessories, zippers or keys inside the back pocket may damage the seat fabric.
 - Make sure not to wet the seat. It may change the nature of natural leather.
 - Jeans or clothes which could bleach may contaminate the surface of the seat covering fabric.
-

- Caring for the leather seats
 - Vacuum the seat periodically to remove dust and sand on the seat. It will prevent abrasion or damage of the leather and maintain its quality.
 - Wipe the natural leather seat cover often with dry or soft cloth.
 - Use of proper leather protector may prevent abrasion of the cover and helps maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
 - Light colored (beige, cream beige) leather is easily contaminated and the stain is noticeable. Clean the seats frequently.
 - Avoid wiping with wet cloth. It may cause the surface to crack.
- Cleaning the leather seats
 - Remove all contaminations instantly. Refer to instructions below for removal of each contaminant.
 - Cosmetic products (sunscreen, foundation, etc.)

Apply cleansing cream on a cloth and wipe the contaminated spot. Wipe off the cream with a wet cloth and remove water with a dry cloth.
 - Beverages (coffee, soft drink, etc.)

Apply a small amount of neutral detergent and wipe until contaminations do not smear.
 - Oil

Remove oil instantly with absorbable cloth and wipe with stain remover used only for natural leather.
 - Chewing gum

Harden the gum with ice and remove gradually.

Cleaning the seat belt webbing

Clean the belt webbing with any mild soap solution recommended for cleaning upholstery or carpet. Follow the instructions provided with the soap. Do not bleach or re-dye the webbing because this may weaken the seat belt.

Cleaning the interior window glass

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with glass cleaner. Follow the directions on the glass cleaner container.

NOTICE

Do not scrape or scratch the inside of the rear window. This may result in damage to the rear window defroster grid.