

IONIQ 5

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.

If you use unauthorized electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire.

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

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 to 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 which, if not avoided, will result in death or serious injury.



WARNING

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



CAUTION

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

NOTICE

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

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1. Hyundai Warranty Policy

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HYUNDAI NEW VEHICLE WARRANTY

Hyundai Motor India Limited hereinafter 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 whichever 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 windstorms, 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.

Wireless Charger, 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 agent or employee is authorized to extend or enlarge this warranty and no dealer or its 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.

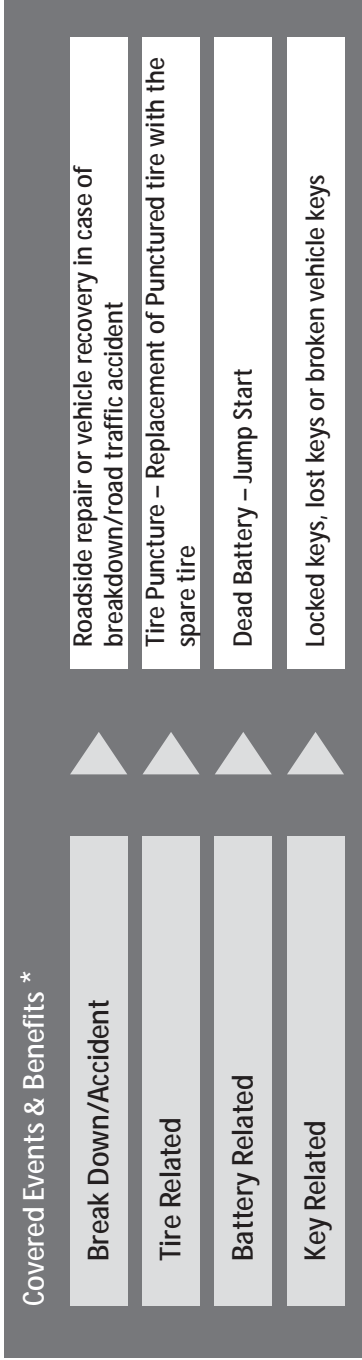
NOTICE :

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),
(0124)2564645 (call charges apply)**

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.



* Terms and Conditions apply.

Terms and Conditions

- 1) The Service is applicable for 3 years from the date of sale
- 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 Online retail RSA & Complete TnC's, kindly visit: <https://hyundai.aawassistance.in/>

**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 _____

2. Starting Your Electric Vehicle

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ELECTRIC VEHICLE

Electric vehicle

An electric vehicle is driven using a battery and an electric motor. While general vehicles use an internal combustion engine and gasoline as fuel, electric vehicles use electrical energy that is charged inside the high voltage battery. As a result, electric vehicles are eco-friendly in that they do not require fuel and do not emit exhaust gases.

Characteristics of electric vehicles

1. It is driven using the electrical energy that is charged inside the high voltage battery. This method prevents air pollution since fuel, like gasoline, is not required, negating the emission of exhaust gases.
2. A high performance motor is used in the vehicle as well. Compared to standard, internal combustion engine vehicles, engine noise and vibrations are much more minimal when driving.
3. When decelerating or driving downhill, regenerative braking is utilized to charge the high voltage battery. This minimizes energy loss and increases the distance to empty.
4. When the battery charge is not sufficient, AC charge, DC charge and trickle charge are available. (Refer to "Charge Types for Electric Vehicle" for details.)

Information

What does regenerative braking do?

It uses an electric motor when decelerating and braking and transforms kinetic energy to electrical energy in order to charge the high voltage battery. (Torque is applied in the opposite direction when decelerating to generate braking force and electric energy.)

Battery Information

- The vehicle is composed of a high voltage battery that drives the motor and air-conditioner, and an auxiliary battery (12 V) that drives the lamps, wipers, and audio system.
- The auxiliary battery is automatically charged when the vehicle is in the ready (**READY**) mode or the high voltage battery is being charged.

MAIN COMPONENTS OF ELECTRIC VEHICLE

Main components of electric vehicle

- On-Board Charger (OBC) : A device that charges the high voltage battery by converting AC power of the power grid to DC power.
 - Inverter : Transforms direct current into alternate current to supply power to the motor, and transforms alternate current into direct current to charge the high voltage battery.
 - LDC : Transforms power from the high voltage battery to low voltage (12 V) to supply power to the vehicle (DC-DC).
 - VCU : Control the various controls on the vehicle.
 - Motor : Uses electrical energy stored inside the high voltage battery to drive the vehicle (functions like an engine in a standard vehicle).
 - Reduction gear : Delivers 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 (12 V auxiliary battery provides power to the vehicle features such as lights and wipers).
- * OBC : On-Board Charger
* LDC : Low Voltage DC-DC Converter
* VCU : Vehicle Control Unit



WARNING

- **Do not intentionally remove or disassemble high voltage components and high voltage battery connectors and wires. Also, be careful not to damage high voltage components and the high voltage battery. It may cause serious injury and significantly impact the performance and durability of the vehicle.**
- **When inspection and maintenance is required for high voltage components and the high voltage battery, we recommend that you contact an authorized HYUNDAI dealer.**

High voltage battery (lithium-ion battery)

- The charge amount of the high voltage battery may gradually decrease when the vehicle is not being driven.
- The battery capacity of the high voltage battery may decrease when the vehicle is stored in high/low temperatures.
- Distance to empty may vary depending on the driving conditions (such as outside temperature), even if the charge amount is the same. The high voltage battery may expend more energy when driving at high-speed or uphill. These actions may reduce the distance to empty.
- The high voltage battery is used when using the air-conditioner / heater. This may reduce the distance to empty. Make sure to set moderate temperatures when using the air-conditioner/heater.

- 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 the charge capacity and distance to empty keep falling, we recommend that you contact an authorized HYUNDAI dealer for inspection and maintenance.
- If the vehicle will not be in use for an extended period of time, charge the high voltage battery once every three months to prevent it from discharging. Also, if the charge amount is not enough, immediately charge to full and store the vehicle.
- AC charge is recommended to keep the high voltage battery in optimal condition.

If the high voltage battery charge amount is below 20%, you can keep the high voltage battery performance in optimal condition if you charge the high voltage battery to 100%. (Once a month or more is recommended.)

The value of the high voltage battery charge level may vary according to the charging conditions (state of charger, outside temperature, battery temperature, etc.). In order to fully charge the battery, the current of the high voltage battery will be gradually decreased, so that the longevity and safety of the battery can be secured.



CAUTION

- If the vehicle is kept with insufficient charge for a long period, it may damage the high voltage battery and the high voltage battery may have to be replaced depending on the level of degradation.
- If the vehicle is in a collision, we recommend that you contact an authorized HYUNDAI dealer to inspect whether the high voltage battery is still connected.
- Using the V2L function may reduce the mileage due to the use of high voltage battery energy, and repeated use of the V2L function may cause a decrease in the life of the high voltage battery.

High voltage battery warmer system

The high voltage battery warmer system prevents reduction of battery output when battery temperature is low. If the charging connector is connected, the warmer system automatically operates according to the battery temperature.

Charging time may shorten compare to vehicles without the high voltage battery warmer system. But, electricity charge may increase because of high voltage battery warmer system operation.



CAUTION

The high voltage battery warmer system operates when the charging connector is connected to the vehicle.

However, the high voltage warmer system may not operate when battery temperature drops below -35°C (-31°F).

EV MODE



If you select the “EV” menu at the home screen you can enter EV mode.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

EV mode screen



1. Energy Information
2. Next Departure
3. Charging and Climate

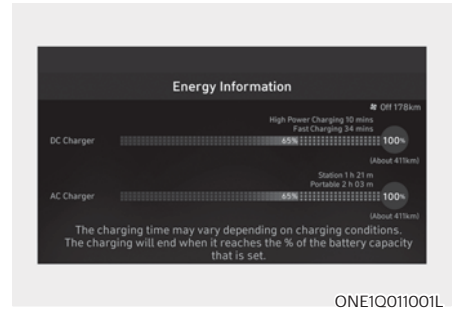
4. Vehicle to Load (V2L)
5. Nearby Stations
6. EV Settings

Energy information



Select 'EV → Vehicle image' on the screen.
You can check battery information and energy consumption.

Battery information



You can check the reachable range, total battery power remaining, and expected charging time for each charge type.

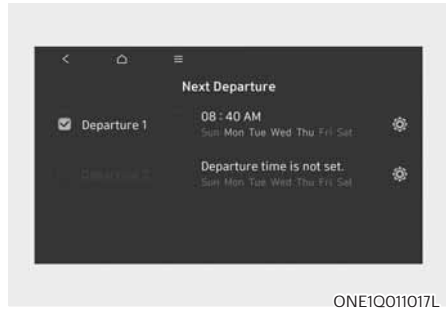
- The distance to empty is calculated based on the real-time electric energy efficiency while driving. The distance may change if the driving pattern changes.
- The distance to empty may vary according to the change of the driving pattern even if the same target battery charge level is set.

Next departure



Select 'EV → Next Departure' on the screen. You can set the date and time of when to charge the battery, climate control temperature, and other various functions.

Departure time



1. Set anticipated departure time for scheduled charging and target temperature.
2. Select the day of the week to activate scheduled charging and target temperature for departure time.

Charging and climate

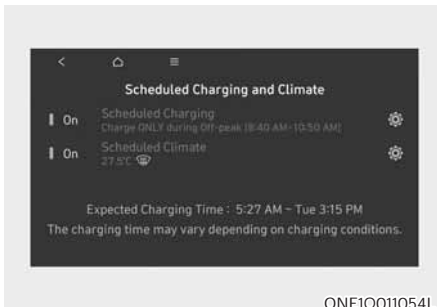


ONE1Q011019L

Select 'EV → Charging and Climate' on the screen.

i Information

Vehicle must be connected with the charging connector at the time pre-scheduled time for the scheduled charging.



ONE1Q011054L

You can set the date and time of when to charge the battery and the climate control temperature. Also, you may select the time to start charging using the off-peak time setting.

Off-peak time settings



ONE1Q011055L

1. If selected, starts charging only on the designated off-peak time.
2. Set the most inexpensive time to complete charging.
3. You may select:
 - Prioritize Off-peak Charging : If selected, starts charging at off-peak time (may keep on charging pass off-peak time to charge 100%).
 - Charge only during Off-peak: If selected, charges only within off-peak time(may not charge 100%).

Target temperature settings



1. Set target temperature.
 - If the target temperature (1) is set with the cable connected, the cabin temperature will be adjusted to the target temperature at departure time (without loss of high voltage battery charging level). In cold weather, preschedule heating helps enhance electric vehicle performance by heating the vehicle in advance.

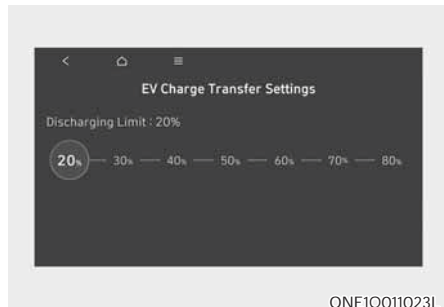
Vehicle to load (V2L)

V2L is the system that provides AC power using the high voltage battery for driving to operate several electronic products.



Select 'EV → Vehicle to Load (V2L)' on the screen.

You can set the battery discharging limit for high voltage battery for driving.



If the vehicle reaches to the limit, it automatically cut supply of electricity.

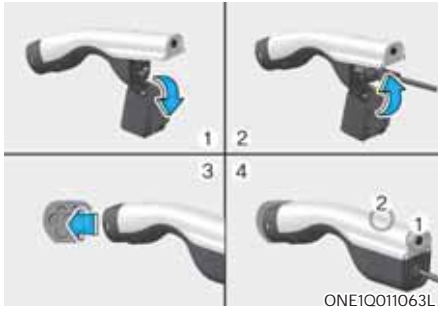
Energy information

Select 'EV → Vehicle image' on the screen.

You can check battery discharging level.

How to connect

Outdoor



1. Open the cover of the V2L connector.
2. Close the cover after connecting home appliances and electrical products to the power outlet.

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. Connect the V2L connector to the charging inlet on the vehicle.
4. Press the switch (1) of the V2L connector and check whether the light (2) is on or off. The light (2) may not turn on normally when:
 - See the battery discharging limit for high voltage battery for driving in 'Electricity Use' menu on the screen. If it is higher than the current amounts of high voltage battery, the light (2) does not turn on.
 - Check whether the light of V2L connector or indoor power outlet turns on or not.
 - If the warning message for V2L appears on the cluster, refer to the message entirely.
 - If V2L does not operate previously when you connects another home appliances, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.
5. Press the switch (1) to turn off the light (2) the the V2L will be off. You can disconnect the V2 connector when the light (2) turns off or the charging connector lock is deactivated pressing the door unlock button on the smart key.

i Information

Please connect the V2L connector to the charging inlet within 60 seconds after the charging cover opens. To prevent theft after connecting, it is changed to auto lock automatically so that it is impossible to disconnect.

When using V2L, cancel the scheduled air conditioning setting. V2L operation may be blocked by scheduled air conditioning operation conditions.

Indoor



1. Connect to the power outlet located in bottom of the rear seat with the Vehicle Stop/Start button in the ON position.



2. Use the smart key to unlock the power outlet cover.



3. Check the operation status through the front indicator of the power outlet.
 - Blue: Standby
 - Red: No power supply even the power outlet is connected
 - Green: Normal power supply through the normal connection of the power outlet.

Information

- V2L discharging mode will shut 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 will shut 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.

CAUTION

- Be well-informed of the manual to prevent accidents.
- 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 proper level after it is left unattended, you can use it again. Use proper home appliances.)
- Do not remodel or disassemble the provided V2L connector. The failure caused by remodeling or disassembling is not covered by the warranty.
- Do not drop the V2L connector or give a strong impact to it.
- Do not place objects on the V2L connector.
- Be sure to disconnect the V2L connector from the vehicle when you are finished using V2L.
- When the high voltage battery charge reaches the set discharging limit(%), the operation stops, and a warning message is displayed on the instrument panel. If you want V2L operation, set the discharging limit(%) lower than the current battery charge.
- When using various electric products, use them below the maximum power capacity that can be supplied by the vehicle.
- If you use an electrical appliance that exceeds the maximum power capacity that the vehicle can supply, the operation will stop and a warning message will be displayed on the instrument panel. Make sure the total power consumption of the electrical appliance you use exceeds the V2L maximum power capacity.
- Some of the electric products may not operate normally even if the product has power consumption less than the maximum power capacity provided by the vehicle.
 - Electrical products that require high power during initial operation.
 - Measuring devices that need to process accurate data.
 - Electric products sensitive to inverter type AC power supply (Inverter: A device that converts DC power into AC power)
- 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.
- Put the power plug fully and use the qualified plug that meets the standard. If you use worn, corroded or broken plug or improper plug, it might be a cause of malfunction.

- Use a power plug with ground connection.
- Do not use high power home appliances such as air conditioning, washing machine or dryer.
- Do not hang the home appliances on to the wire.
- For various devices connected to an power outlet, use only products that have obtained national safety certification. For usage and precautions, refer to the manual of the device. (Electrical appliances, multi-outlets, cord extension cables, etc.)
- For devices used outdoors in a vehicle, use a product with a waterproof function or use it in a waterproof environment. Do not use in environments with rain or high humidity. (Electrical appliances, multi-outlets, cord extension cables, etc.)
- If there is a risk of lightning, do not use the V2L function outside the vehicle.
- Do not connect multiple portable multi-outlets.
- When using an extension cable, if the cable is twisted or overlapped by itself may cause a fire. Be sure to use the cable without twisting it.
- 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.
- 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.



WARNING

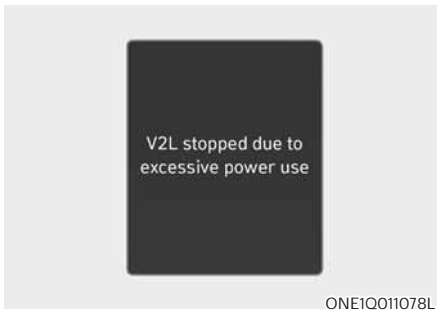
- Do not touch the V2L connector of the terminal of the vehicle charging inlet.
- Do not put metal objects to the V2L connector or charging inlet. It might be a cause of electric shock.
- Do not touch the V2L connector, charging inlet or power plug with a wet hand. It might be a cause of electric shock. Please handle with a dry hand all the time.
- Confirm whether there is foreign substance such as water or dust on the V2L connector, charging inlet or power plug before connecting. If you connect it with foreign substances, it may be a cause of fire or electric shock.
- Do not remodel or disassemble the V2L connector. There is a risk of fire, electric shock or injury.
- 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.
- Do not charge in the following conditions. The accident might occur.
 - The V2L connector, charging inlet, power plug or cable is damaged, corroded or rusted.
 - The connection part is loose.
- Do not use if the sheath of home appliance cables is damaged or broken. There is a risk of fire, electric shock or injury.
- Never use an electric heating appliance like iron, coffee pot, and toaster in the vehicle. It may cause a fire and injury.

Cluster display messages



V2L has ended. Battery level has reached the set value

When the high voltage battery level reaches the discharging limit set level, the V2L will stop and the warning will be displayed. If you want to use the V2L continuously, make the discharging limit set level lower than the present battery level.



V2L stopped due to excessive power use

If you use an electrical appliance that exceeds the maximum power output the vehicle can supply, it will stop working and display a warning message. Make sure that the total power consumption of your electrical appliance exceeds the V2L maximum power output.



V2L conditions not met

If V2L is interrupted for any of the following reasons, a warning message is displayed.

- 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.

Nearby charging stations



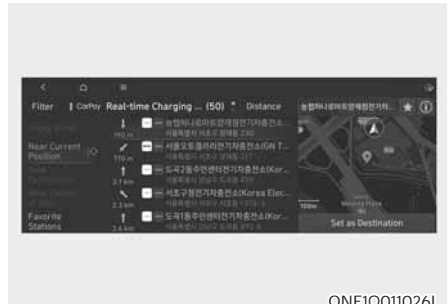
ONE1Q011024L

Select 'EV → Map' on the screen. Stations around the current location are searched.



ONE1Q011025L

Select 'Search for charging stations' on the screen.



ONE1Q011026L

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

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

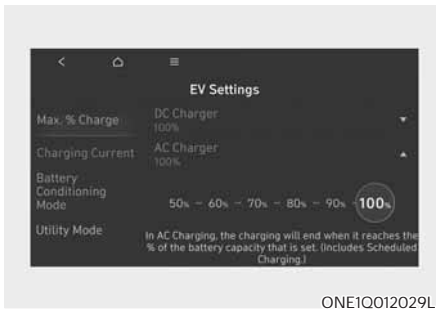
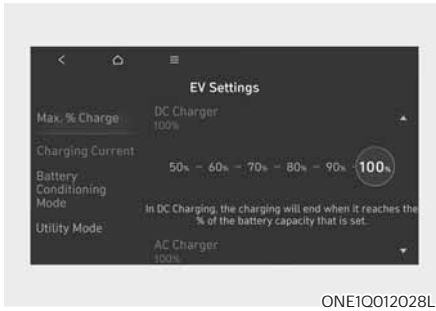
EV settings



ONE1Q011027L

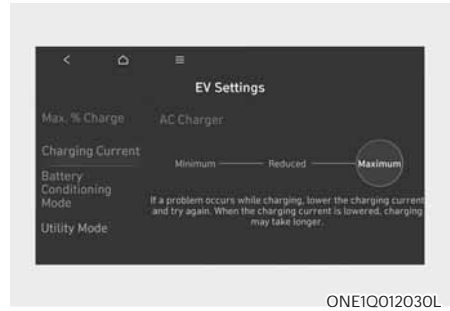
Select 'EV → EV Settings' on the screen. You can set the charging limit, charging current, winter mode and utility mode functions.

Charging limit (Max. % Charge)



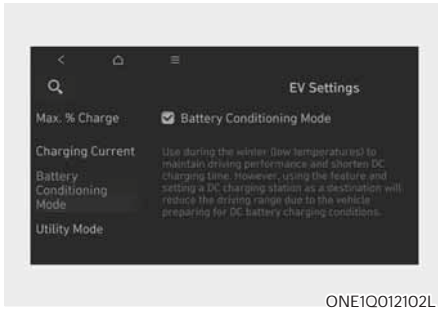
- The target battery charge level can be selected when charged with AC charger or DC charger.
- The charging level can be changed by 10%.
- If the target battery charge level is lower than the high voltage battery charge level, the battery will not be charged.

Charging current



- You can adjust the charging current for an AC charger. Select an appropriate charging current.
- If the charging process does not start or abruptly stops in the middle, reselect another proper current and re-try charging the vehicle.
- Charging time varies depending on which charging current is selected.

Battery conditioning mode



You can select or deselect the Battery conditioning mode.

The Battery conditioning mode is efficient during the winter time when the high voltage battery temperature is low.

This mode is recommended to improve driving and DC charging performances during winter by raising the battery temperature to an adequate level.

However, the driving distance may be reduced as the energy is required to increase battery temperature.

Also, if the battery temperature is low during driving or when the scheduled air conditioner/heater is activated, this mode is operated to improve driving performance.

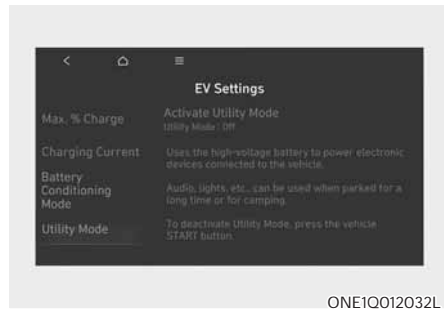
However, the mode is not operated to ensure driving distance when the battery level is low.

Information

This mode is available for the vehicles equipped with the battery heater.

Utility Mode

The high voltage battery is used instead of the 12V auxiliary battery for operating the convenient features of the vehicle. When driving is not necessary such as while camping or when stopping the vehicle for a long time, it is possible to use the electrical devices (audio, lights, air conditioner, heater, etc.) for long hours.



System Setting and Activation

System setting

The driver can activate the Utility mode function when the following conditions are satisfied.

- The vehicle is in the ready (**READY**) mode and the gear is shifted to P (Park).
- The EPB (Electronic Parking Brake) is not a malfunction.
- 'EV settings → Utility mode' is selected on the infotainment system screen.

System Activation

When the system is activated:

- The **(READY)** indicator will turn off, and the **(UTIL)** indicator will illuminate on the cluster and the EPB is applied.
- All electric devices are usable but the vehicle cannot be driven.
- The EPB can be cancelled by pressing the EPB switch.

Gear cannot be shifted out of P (Park). If a shift attempt is made, a message "Shifting conditions not met" will be displayed on the infotainment system screen.

System Deactivation

The Utility mode can be deactivated by pressing the START/STOP button to the OFF position. The function cannot be deactivated from the EV settings.

CHARGE TYPES FOR ELECTRIC VEHICLE

Charging Information

- AC Charge: The electric vehicle is charged by plugging into a AC charger installed at your home or a public charging station. (For further details, refer to the 'AC Charge'.)
- 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.
 Battery performance and durability can deteriorate if the DC charger is used constantly.
 Use of DC charge should be minimized in order to help prolong high voltage battery life.
- Portable Charge: The Electric vehicle can be charged by using household electricity. The electrical outlet at your home must comply with regulations and can safely accommodate the Voltage / Current (Amps) / Power (Watts) ratings specified on the portable charge.










Charging time information

Charging type		Standard battery type	Extended battery type
AC charge		Takes approx. 5 hours 55 minutes at room temperature when charged to 100%	Takes approx. 7 hours 20 minutes at room temperature when charged to 100%.
DC charge	350 kW charger	Takes about 18 minutes at room temperature when charged from 10% to 80%. Can be charged to 100%.	Takes about 18 minutes at room temperature when charged from 10% to 80%. Can be charged to 100%.
	50 kW charger	Takes about 63 minutes at room temperature when charged from 10% to 80%. Can be charged to 100%.	Takes about 66 minutes at room temperature when charged from 10% to 80%. Can be charged to 100%.
Portable charge		Takes approx. 24 hours 40 minutes at room temperature when charged to 100%.	Takes approx. 32 hours 45 minutes at room temperature when charged to 100%.

Information

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.

Charging types

Category	AC Charge	DC Charge	Portable Charge
Charging Inlet (Vehicle)	 ONE1Q011056L	 ONE1Q011057L	 ONE1Q011056L
Charging Connector	 ONE1Q011088L	 OAEEQ016022L	 ONE1Q011088L
Charging Outlet	 OSQCEQ019001	 OSQCEQ019005	 ONX4EPHQ011019L
How to Charge	Use AC charger installed at home or public charging stations	Use the DC charger at public charging stations	Use household current

- Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.
- Actual charger image and charging method may vary in accordance with the charger manufacturer.





CHARGE INDICATOR LAMP FOR ELECTRIC VEHICLE

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

Charging status

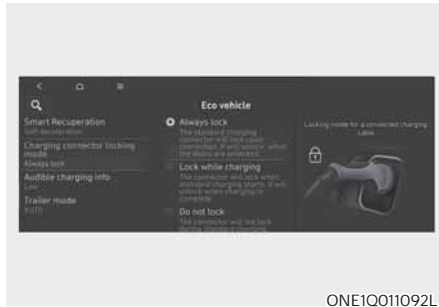
Electric charging door



Lamp status	Battery SOC [%]
	0 ~ 24
	25 ~ 49
	50 ~ 74
	75 ~ 100

CHARGING CONNECTOR LOCK

Locking charging cable



You may select when the charging connector can be locked and unlocked in the charging inlet.

Select 'Settings → ECO Vehicle → Charging Connector Locking Mode' in the infotainment.

When the Charging Connector Is Locked

	Always lock	Lock while charging	Do not lock
Before charging	O	X	X
While charging	O	O	X
Finished charging	O	X	X

- 'Always lock' mode :

The connector locks when the charging connector is plugged into the charging inlet. The connector is locked until all doors are unlocked by the driver. This mode can be used to prevent charging cable theft.

- If the charging connector is unlocked when all doors are unlocked, but the charging cable is not disconnected within 15 seconds, the connector will be automatically locked again.
- If the charging connector is unlocked when all doors are unlocked, but all doors are locked again, immediately, the connector will be automatically locked again.

- 'Lock while charging' mode :

The connector locks when charging starts. The connector unlocks when charging is complete. This mode can be used when charging in a public charging station.

- 'Do not lock' mode :

The connector unlocks regardless of the state of charging.

Press the charging connector release button, disconnect the connector.

Be careful to theft of the charging cable.

SCHEDULED CHARGING

Scheduled charging (if equipped)

- You can set-up a charging schedule for your vehicle using the Infotainment system or Blue Link application.
Refer to the infotainment system manual or the Blue Link application for detailed information about setting scheduled charging.
- Scheduled charging can only be done when using a AC charger or the portable charger (ICCB: In-Cable Control Box).



- When scheduled charging is set and the AC charger or the portable charger (ICCB: In-Cable Control Box) is connected for charging, the indicator lamp blinks from the first level to the last for about 3 minutes to indicate that scheduled charging is set.

- When scheduled charging is set, charging is not initiated immediately when the AC charger or portable charger (ICCB: In-Cable Control Box) is connected. When immediate charging is required, press the charging door open button in the smart key for 2 seconds or deactivate the scheduled charge setting with the infotainment system or Blue Link application.

Refer to “AC Charge (Station) or Trickle Charge” for details about connecting the AC charger and the portable charger (ICCB: In-Cable Control Box).

CHARGING ELECTRIC VEHICLE

Electric charging door

The electric charging door will open and close as follows.



Methods	Open	Close
Touch and Push	<p>ONE1Q011064</p>	<p>ONE1Q011067</p>
Smart Key	<p>ONE1Q011066</p>	
Voice Recognition	<p>WNE1-208</p> <p>(Limited to areas where voice recognition is applied)</p>	

i Information

- **The charging door automatically closes when:**
 - The charging connector is disconnected
 - The charging procedure has not done for a certain amount of time while the charging door is opened.
 - The gear is in **D** (drive), **N** (neutral), or **R** (Reverse).
- After replacing battery (12 volt), open and close the charging door once to check that the charging door automatic opening mechanism is functioning properly.
- When replacing the charging door, be sure to disconnect the vehicle-side wiring connector of the charging door module and reconnect it to ensure normal operation of the charging door.

Charging precautions

■ AC Charger



■ DC Charger



Actual charger image and charging method may vary in accordance with the charger manufacturer.

WARNING

- Electromagnetic waves that are generated from the charger can seriously impact medical electric devices such as an implantable cardiac pacemaker.

If you are fitted with any electronic medical implants (for example, cardiac pacemaker), make sure to ask the medical team and manufacturer whether charging your electric vehicle will impact the operation of electronic medical implants.

- Check to make sure there is no water or dust on the charging cable connector and plug before connecting to the charger and charging inlet. Connecting while there is water or dust on the charging cable connector and plug may cause a fire or electric shock.

WARNING

- Be careful not to touch the charging connector, charging plug, and the charging inlet when connecting the cable to the charger and the charging inlet on the vehicle.
- Comply with the following in order to prevent electrical shock when charging:
 - Use a waterproof charger.
 - Do not touch the charging connector and charging plug with your hands wet, or do not stand in water or snow while connecting the charging cable.
 - Be careful when there is lightning.
 - Be careful when the charging connector and plug are wet.

WARNING

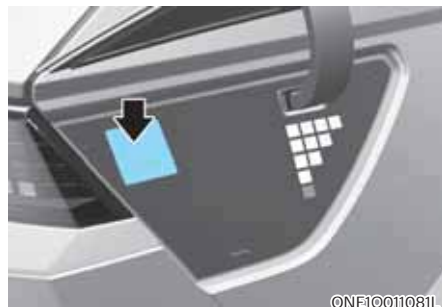
- Immediately stop charging when you find abnormal symptoms (odor, smoke).
- Replace the charging cable if the cable coating is damaged to prevent electrical shock.
- When connecting or removing the charging cable, make sure to hold the charging connector handle and charging plug.

If you pull the cable itself (without using the handle), the internal wires may be disconnected or get damaged. This may lead to electric shock or fire.

CAUTION

- Always keep the charging connector and charging plug in clean and dry condition. Be sure to keep the charging cable in a condition where there is no water or moisture.
- Be sure to use only certified electric vehicle charger. Using uncertified charger may cause the damage to the vehicle.
- Before charging the battery, turn the vehicle OFF.
- When the vehicle is switched OFF while charging, the cooling fan inside the motor compartment may automatically operate. Do not touch the cooling fan while charging.
- Be careful not to drop the charging connector. The charging connector can be damaged.

How to check the symbol on the charging label (For Europe)



Charging label is located near charging inlet and you can find the suitable symbol for your vehicle type in the charging connector outlet.

Precautions for AC and portable charger charging

1. After opening the charging door, check the charging symbol at the bottom of the warning label.
2. Check the charging connector symbol of the AC and Trickle charger cable.
3. After checking the alphabet letter of the charging symbol, proceed the charging step (Refer to "Electric charging label symbol table" in this chapter).

Precautions for DC charging

1. After opening the charging door, check the charging symbol at the bottom of the warning label.
2. Check the charging connector symbol at the high speed charging station.
3. After checking the alphabet letter of the charging symbol, proceed the charging step (Refer to Electric charging label symbol table in this chapter).

WARNING

Risk of failure, fire, injury, etc., are expected when using the charging connector with unmatched symbol.

Electric charging label




ONE1Q011080L



1. Warning for high voltage
2. Symbol for charging door
3. For further details, refer to "How to check the symbol on the charging label" in this chapter.
4. Charging voltage and current
~ : AC single phase
≡ : AC 3 phase
- 5, 6, 7. Symbols for charging type. Refer to "Electric charging label symbol table".

Electric charging label symbol table

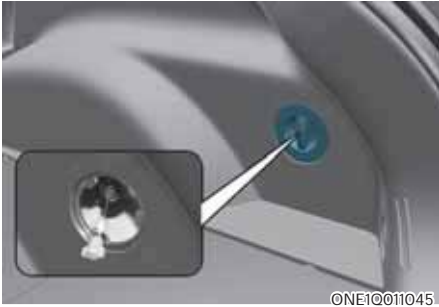
AC and portable charger charging

Supply Type	Configuration	Type of accessory	Voltage range	Symbol
AC	7P	Vehicle connector and vehicle inlet	≤480V RMS	

DC charging

Supply Type	Configuration	Type of accessory	Voltage range	Symbol
DC	7P COMBO	Vehicle connector and vehicle inlet	200 V to 920 V	
			200 V to 920 V	

Disconnecting charging connector in emergency



©NE1Q011045

If the charging connector does not disconnect from the charging inlet due to battery discharge and failure of electric wires, open the tailgate and slightly pull the emergency cable in the cargo area. The charging connector will be disconnected from the charging inlet.

AC charge

■ AC Charger



OLFP0Q5007K

Actual charger image and charging method may vary in accordance with the charger manufacturer.

How to Connect AC Charger

1. Depress the brake pedal and apply the parking brake.
2. Turn OFF all switches, shift to P (Park), and turn OFF the vehicle.

If charging is initiated without the gear in P (Park), the charging will start after the gear is automatically shifted to P (Park).



©NE1Q011040

3. Open the charging door.

For more details, refer to 'Electric charging door' in this chapter.

i Information

If you cannot open the charging door due to freezing weather, tap lightly or remove any ice near the charging door. Do not try to forcibly open the charging door.

4. Check if there is dust on the charging connector and charging inlet.
5. Hold the charging connector handle and connect it to the vehicle charging inlet. Push the connector all the way in. If the charging connector and charging terminal are not connected properly, this may cause a fire.
6. Connect the charging plug to the electric outlet at an AC charging station to start charging.

i Information

Locking Charging Cable

Select 'Settings → ECO Vehicle → Charging Connector Locking Mode' in the infotainment system menu. The charging connector is locked in the inlet at a different period according to which mode is selected.

- **Always mode** : The connector locks when the charging connector is plugged into the charging inlet.
- **While charging mode** : The connector locks when charging starts.

For more details, refer to "Locking Charging Cable" in this chapter.



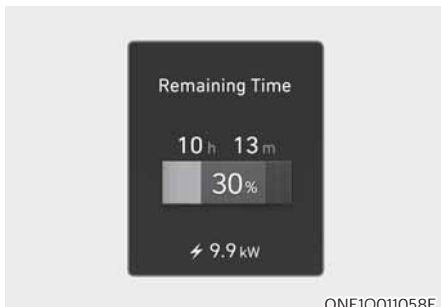
ONE1Q011041

7. Check if the charging connector indicator light (☞) of the high voltage battery on the instrument cluster is turned ON. charging connector is not active when the charging indicator light (☞) is OFF.

When the charging connector and charging plug are not connected properly, reconnect the charging cable to charge.

i Information

- **Even though charging is possible with the Start/Stop button in the ON/START position, for you safety, start charging when the Start/Stop button is in the OFF position and the vehicle shifted to P (Park). After charging has started, you can use electrical components such as the radio by pressing the Start/Stop button to the ACC or ON position.**
- **During AC charging, the radio reception may be poor.**
- **During charging, the gear cannot be shifted from P (Park) to any other gear.**



8. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.

If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute. When scheduled charging or scheduled air conditioning/heating is set, the estimated charging time is displayed as "--".

Information

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.

Checking Charging Status

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

For more details, refer to 'Charge Indicator Lamp for Electric Vehicle' in this chapter.

How to Disconnect AC Charger

■ AC Charger



1. When charging is complete, remove the charging plug from the electrical outlet of the AC charging station.



2. Hold the charging connector handle and pull it out.

i Information

To prevent charging cable theft, the charging connector cannot be disconnected from the inlet when the doors are locked or the charging connector is in the LOCK mode. Unlock all doors to disconnect the charging connector from the inlet.

However, if the vehicle is in the charging connector AUTO mode, the charging connector automatically unlocks from the inlet when charging is completed.

If you attempt to disconnect the charging connector without pressing the release button, the connector and the inlet may be damaged. For more details, refer to “Charging Connector AUTO/ LOCK Mode” in this chapter.

If the release button does not work even after the all doors are unlocked, pull the emergency lift cable in the motor room and press the release button in the connector to disconnect it from the vehicle. If the release button still does not work, we recommend to consult an authorized HYUNDAI dealer.

3. Make sure to completely close the charging door.
4. Close the protection caps of the charging connector and the charging plug to protect them from foreign substances.
5. If the personal charging connector is used, store the connector in the cable compartment.

DC charge

■ DC Charger



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.

Battery performance and durability can deteriorate if the DC charger is used constantly.

Use of DC charge should be minimized in order to help prolong high voltage battery life.

Actual charger image and charging method may vary in accordance with the charger manufacturer.

i Information

If you use a DC charger when the vehicle is already fully charged, some DC chargers will send out an error message. When the vehicle is fully charged, do not charge the vehicle.

How to Connect DC Charger

1. Depress the brake pedal and apply the parking brake.
2. Turn OFF all switches, shift to P (Park), and turn OFF the vehicle.



3. Open the charging door.

For more details, refer to 'Electric charging door' in this chapter.

i Information

If you cannot open the charging door due to freezing weather, tap lightly or remove any ice near the charging door. Do not try to forcibly open the charging door.

4. Check whether there is dust or foreign substances inside the charging connector and charging inlet.
5. Hold the charging connector handle and connect it to the vehicle charging inlet. Push the connector all the way in. If the charging connector and charging terminal are not connected properly, this may cause a fire.

Refer to the manual for each type of DC charger for how to charge and remove the charger.



6. Check if the charging indicator light (⚡) of the high voltage battery on the instrument cluster is turned ON. Charging is not active when the charging indicator light (⚡) is OFF.

When the charging connector is not connected properly, reconnect the charging cable to charge it again.

During cold weather, DC charging may not be available to prevent high voltage battery degradation.

i Information

To control the temperature of the high voltage battery while charging, the air conditioning is used to cool down the battery. This may generate noise or vibration from operation of the air conditioning compressor and cooling fan, but it is a normal condition when charging the high voltage battery. Also, the air conditioning's performance may be degraded due to operation of the cooling system to charge the high voltage battery. This is a normal condition.

i Information

Even though charging is possible with the Start/Stop button in the ON/START position, for your safety, start charging when the Start/Stop button is in the OFF position and the vehicle shifted to P (Park). After charging has started, you can use electrical components such as the radio by pressing the Start/Stop button to the ACC or ON position.

During charging, the gear cannot be shifted from P (Park) to any other gear.



- After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.
If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute.

i Information

- Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.
- In rare cases, you might hear high frequency noise (very little beep sound) outside the vehicle when charging with 400V fast charger that is 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 fast charging as possible.

Do not worry about this little beep noise, because it is the intentional operation of the car that does not affect any charging performance or the vehicle itself at all.

Checking Charging Status

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

For more details, refer to 'Charge Indicator Lamp for Electric Vehicle' in this chapter.

How to Disconnect DC Charger

- Remove the charging connector when DC charging is completed, or after you stop charging using the DC charger. Refer to each respective DC charger manual for details about how to disconnect the charging connector.
- Make sure to completely close the charging door.

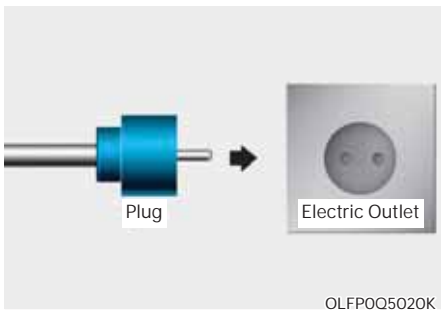
Portable charge



- (1) Code and Plug (Code set)
- (2) Control Box
- (3) Charging Cable and Charging Connector

Portable Charge can be used when AC Charge or DC Charge is not available by using household electricity.

How to Set the Charge Level of the Portable Charger




- 1. Check the rated current of the electric outlet prior to connecting the plug to the outlet.
- 2. Connect the plug to a household electric outlet.
- 3. Check the display window on the control box.



- 4. Press the button (1) on the front of the control box for 2 to 8 seconds to adjust the charge level. (Refer to charging cable type and example for setting the charge level.)
- 5. The charge level on the display window of the control box changes every time you press the button (1).
- 6. When setting the charge level is complete, start charging according to the portable charge instructions.

* Example for setting the ICCB charge level

The example is only for reference and may vary according to the surrounding environment.

Outlet current	ICCB charge level	Control box display window
14-16A	12A	
13-12A	10A	
11-10A	8A	
9-8A	6A	

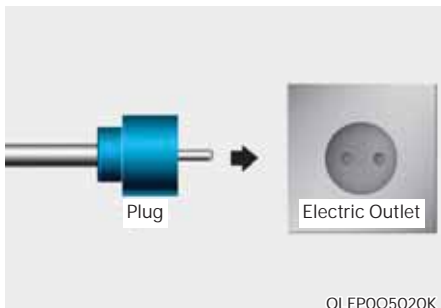
ONX4EPHQ011007L



CAUTION

Please make sure that charge level selection matches the capacity of your circuit breaker to avoid blown fuse.

How to Connect Portable Charger (ICCB: In-Cable Control Box)

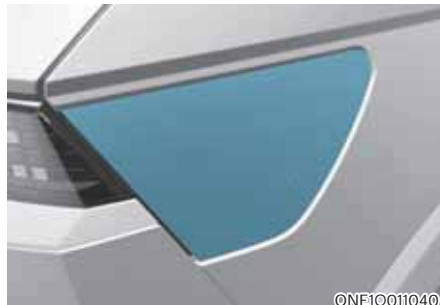


1. Connect the plug to a household electric outlet.



2. Check if the power lamp (green) illuminates on the control box.
3. Depress the brake pedal and apply the parking brake.
4. Turn OFF all switches, shift to P (Park), and turn OFF the vehicle.

If charging is initiated without the gear in P (Park), the charging will start after the gear is automatically shifted to P (Park).



5. Open the charging door.

For more details, refer to 'Electric charging door' in this chapter.

i Information

If you cannot open the charging door due to freezing weather, tap lightly or remove any ice near the charging door. Do not try to forcibly open the charging door.

6. Open the protection caps of the charging connector and the charging plug. Check if there are any foreign substances or dust.
7. Hold the charging connector handle and connect it to the vehicle charging inlet. Push the connector all the way in. If the charging connector and charging terminal are not connected properly, this may cause a fire.

i Information

Locking Charging Cable

Select 'Settings → ECO Vehicle → Charging Connector Locking Mode' in the infotainment. The charging connector is locked in the inlet at a different period according to which mode is selected.

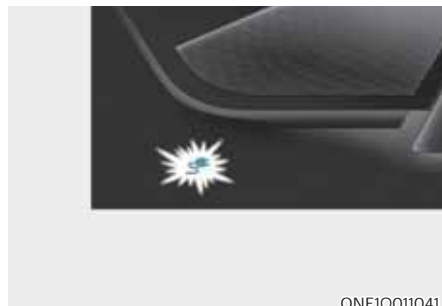
- **Always mode :** The connector locks when the charging connector is plugged into the charging inlet.
- **While charging mode :** The connector locks when charging starts.

For more details, refer to "Locking Charging Cable" in this chapter.



ONX4EPHQ011006L

8. Charging starts automatically (charging lamp illuminates).



ONE1Q011041

9. Check if the charging indicator light (⚡) of the high voltage battery on the instrument cluster is turned ON. Charging is not active when the charging indicator light (⚡) is OFF. When the charging connector is not connected properly, reconnect the charging cable to charge it again.

i Information

To control the temperature of the high voltage battery while charging or when the battery temperature is high, the air conditioning is used to cool down the battery. This may generate noise or vibration from operation of the air conditioning compressor and cooling fan, but it is a normal condition when charging the high voltage battery. Also, the air conditioning's performance may be degraded due to operation of the cooling system to charge the high voltage battery. This is a normal condition.

i Information

Even though charging is possible with the Start/Stop button in the ON/START position, for your safety, start charging when the Start/Stop button is in the OFF position and the vehicle shifted to P (Park). After charging has started, you can use electrical components such as the radio by pressing the Start/Stop button to the START or ON position.

During charging, the gear cannot be shifted from P (Park) to any other gear.



ONE1Q011058E

10. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.

If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute. When scheduled charging or scheduled air conditioner/heater is set, the estimated charging time is displayed as "--" .

i Information

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.

Checking Charging Status

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

For more details, refer to 'Charge Indicator Lamp for Electric Vehicle' in this chapter.


Charging Status Indicator Lamp for Portable Charger






■ Control Box



ONX4EPHQ011008L

Indicator		Details
POWER		On : Power on
CHARGE		On : Charge Blink : Current limit due to high plug temperature or high internal temperature
FAULT		Blink : Charging interrupted

Indicator		Details		
Error code		On : Error while charging/ Error during self-diagnosis		
		Error code	Item	Cause
		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		

Indicator	Details	
	12 A	
	10 A	
	8 A	
	6 A	
CHARGE LEVEL	<p data-bbox="256 667 732 764">The charging current changes whenever the button (1) is pressed for less than 1 sec with the charger plugged into an electrical outlet but not the vehicle.</p> <p data-bbox="743 581 919 602">* The control box</p>  <p data-bbox="893 846 1042 862">ONX4EPHQ011024L</p>	

Status / Diagnosis / Countermeasure



- Charging connector plugged into vehicle (POWER Green ON)
- Plug connected to an electric outlet (POWER Green ON)



While charging

- Charge indicator (POWER Green ON / CHARGE Blue ON)
- Charging current



Before plugging charging connector into vehicle (POWER Green ON, FAULT Red blink)

- Abnormal temperature
- ICCB (In-Cable Control Box) failure

We recommend that you contact an authorized HYUNDAI dealer.



Plugged into vehicle (POWER Green ON, FAULT Red Blink)

- Diagnostic device failure
- Current leakage
- Abnormal temperature

We recommend that you contact an authorized HYUNDAI dealer.



Power saving mode

- 7-segment display is turned off if there is no status change for more than 1 minute.



- Leakage current failure (POWER Green ON, FAULT Red Blink)
- After disconnecting and reconnecting the power plug, press and release the button for 2 seconds or longer to clear the error.

We recommend that you contact an authorized HYUNDAI dealer.

How to Disconnect Portable Charger (ICCB: In-Cable Control Box)



1. Hold the charging connector handle and pull it out.

i Information

To prevent charging cable theft, the charging connector cannot be disconnected from the inlet when the doors are locked or the charging connector is in the LOCK mode. Unlock all doors to disconnect the charging connector from the inlet.

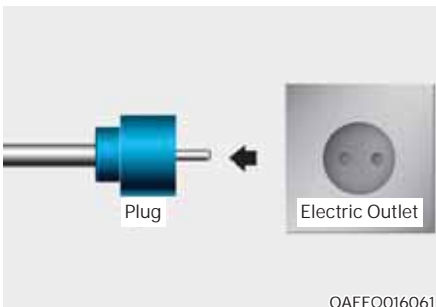
However, if the vehicle is in the charging connector AUTO mode, the charging connector automatically unlocks from the inlet when charging is completed.

If you attempt to disconnect the charging connector without pressing the release button, the connector and the inlet may be damaged.

For more details, refer to “Charging Connector AUTO/ LOCK Mode” in this chapter.

If the release button does not work even after the all doors are unlocked, pull the emergency lift cable in the motor room and press the release button in the connector to disconnect it from the vehicle. If the release button still does not work, we recommend to consult an authorized HYUNDAI dealer.

2. Make sure to completely close the charging door.



3. Disconnect the plug from the household electric outlet. Do not pull the cable when disconnecting the plug.
4. Close the protection caps of the charging connector and the charging plug to protect them from foreign substances.
5. If the personal charging connector is used, store the connector in the cable compartment.


Precautions for Portable Charger (ICCB: In-Cable Control Box)

- Use the portable charger that is certified by HYUNDAI Motors.
- Do not try to repair, disassemble, or adjust the portable charger.
- Do not use an extension cord or adapter.
- Stop using immediately when failure occurs.
- Do not touch the plug and charging connector with wet hands.
- Do not touch the terminal part of the AC charging connector and the AC charging inlet on the vehicle.
- Do not connect the charging connector to voltage that does not comply with regulations.
- Do not use the portable charger if it is worn out, exposed, or there exists any type of damage on the portable charger.
- If the ICCB case and AC charging connector is damaged, cracked, or the wires are exposed in any way, do not use the portable charger.
- Do not let children operate or touch the portable charger.
- Keep the control box free of water.
- Keep the normal charging connector or plug terminal free of foreign substances.
- Do not step on the cable or cord. Do not pull the cable or cord and do not twist or bend it.
- Do not charge when there is lightning.
- Do not drop the control box or place a heavy object on the control box.
- Do not place an object that can generate high temperatures near the charger when charging.
- Charging with the worn out or damaged household electric outlet can result in a risk of electric shock. If you have doubts about the condition of a household electric outlet, have it checked by a licensed electrician.
- Stop using the portable charger immediately if the household electric outlet or any components is overheated or you notice burnt odors.

CHARGING THE ELECTRIC VEHICLE (ABRUPT STOP)

Action to be taken when charging stops abruptly

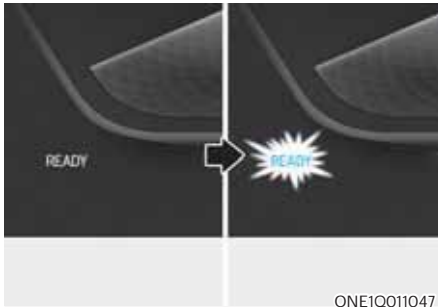
When the high voltage battery does not charge, check the followings:

1. Check the charging setting for the vehicle. Refer to "Charge Management", in this chapter (for example, When scheduled charging is set, charging is not initiated immediately when the AC charger or portable charger (ICCB: In-Cable Control Box) is connected.)
2. Check the operation status of AC charger, portable charger and DC charger.
(Charging Status Indicator Lamp for Portable Charger, refer to "Checking Charging Status" for trickle charge in this chapter.)
- * Actual method for indicating the charging status may vary in accordance with the charger manufacturer.
3. When the vehicle does not charge and a warning message appears on the cluster, check the corresponding message. Refer to "Cluster Display Messages", in this chapter.
4. If the vehicle is properly charged when charged with another normally working charger, contact the charger manufacturer.
5. If the vehicle does not charge when charged with another normally working charger, we recommend that you contact an authorized HYUNDAI dealer for inspection.
6. If charging fails and the service warning light () is lit in the cluster, we recommend that you contact an authorized HYUNDAI dealer.

DRIVING ELECTRIC VEHICLE

How to start the vehicle

1. Holding the smart key, sit in the driver's seat.
2. Fasten the seat belt before starting the vehicle.
3. Make sure to engage the parking brake.
4. Turn OFF all electrical devices.
5. Make sure to depress and hold the brake pedal.
6. While depressing the brake pedal, shift to P (Park).
7. Depress and hold the brake pedal while pressing the Start/Stop button.



8. When the "READY" indicator is ON, you can drive the vehicle. When the "READY" indicator is OFF, you cannot drive the vehicle. Start the vehicle again.
9. Depress and hold the brake pedal and shift to the desired position.

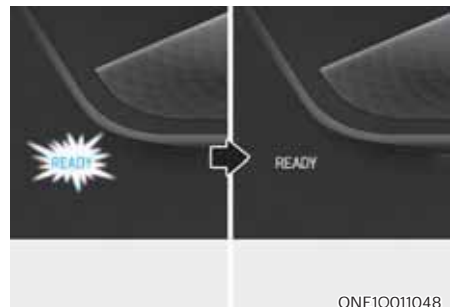
i Information

While the charging cable is connected, the gear cannot be shift from P (Park) to any other gear for safety reasons.

10. Release the parking brake and slowly release the brake pedal. Check if the vehicle slowly moves forward, then depress the accelerator pedal.

How to stop the vehicle

1. Hold down the brake pedal while the vehicle is parked.
2. While depressing the brake pedal, shift to P (Park).
3. While depressing the brake pedal, engage the parking brake.
4. While depressing the brake pedal, press the Start/Stop button and turn off the vehicle.



5. Check if the "READY" indicator is turned OFF on the instrument cluster. When the "READY" indicator is ON and the gear is in a position other than P (Park), the driver can accidentally depress the accelerator pedal, causing the vehicle to move unexpectedly.

Virtual engine sound system

The Virtual Engine Sound System generates engine sound for pedestrians to hear vehicle sound because there is no sound while the Electric Vehicle (EV) is operating.

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

CAUTION

- The vehicle is much quieter while driving than a conventional gasoline-powered vehicle. Be aware of your surroundings and always drive safely.
- After you park the vehicle or while you are waiting at a traffic light, check whether there are children or obstacles around the vehicle.
- Check if there is something behind the vehicle when driving in reverse. Pedestrians may not hear the sound of the vehicle.

Distance to empty



The distance to empty is displayed differently according to the selected drive mode in the Drive Mode Integrated Control System.

For more information, refer to “Drive Mode Integrated Control System” in chapter 6.

When destination is not set

- On average, a vehicle can drive about 320 km (Standard type) / 400 km (Extended type).
- Under certain circumstances where the air conditioner/heater is ON, the distance to empty is impacted, resulting in a possible distance range from 170~460 km (Standard type) / 210~570 km (Extended type). When using the heater during cold weather or driving at high speed, the high voltage battery consumes a lot more electricity. This may reduce the distance to empty significantly.
- After ‘0 km’ has been displayed, the vehicle can drive an additional 3~8 km (2~5 miles) depending on driving speed, heater/air conditioner, weather, driving style, and other factors.

- Distance to empty that is displayed on the instrument cluster after completing a recharge may vary significantly depending on previous operating patterns.

When previous driving patterns include high speed driving, resulting in the high voltage battery using more electricity than usual, the estimated distance to empty is reduced. When the high voltage battery uses little electricity in ECO mode, the estimated distance to empty increases.

- Distance to empty may depend on many factors such as the charge amount of the high voltage battery, weather, temperature, durability of the battery, geographical features, and driving style.

When the ambient temperature is low such as in winter, the actual driving distance may reduce due to degradation of the battery.

- 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 destination is set

When the destination is set, the distance to empty may change. The distance to empty is recalculated using the information of the destination. However, the distance to empty may vary significantly based on traffic conditions, driving habits, and condition of the vehicle.

Tips for improving distance to empty

- If you operate the air conditioner / heater too much, the driving battery uses too much electricity. This may reduce the distance to empty. Therefore, it is recommended that you set the cabin temperature to 22°C AUTO. This setting that has been certified by various assessment tests to maintain optimal energy consumption rates while keeping the temperature fresh.
Turn OFF the heater and air conditioner if you do not need them.
- When the heater or air conditioning system is on the energy consumption is reduced if recirculation mode is selected instead of selecting the fresh mode. The fresh mode requires large amount of energy consumption as the outside air has to be re-heated or cooled.
- When using the heater or air conditioning system use the DRIVER ONLY or scheduled air conditioner/ heater function.
- Depress and hold the accelerator pedal to maintain speed and drive economically.
- Gradually depress and release the accelerator pedal when accelerating or decelerating.
- Always maintain specified tire pressures.
- 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.

ECO driving



In order to check the ECO driving history, select 'Menu → ECO Driving' on the screen.

Electric energy economy history

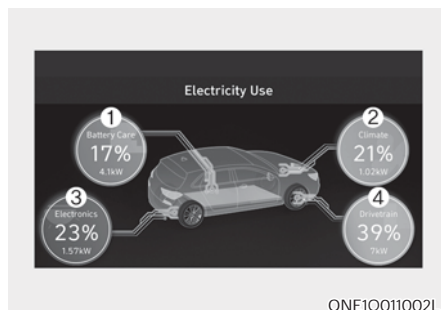


It is possible to check the history of electric energy economy with the date and distance of previous driving. The icon is displayed on the most efficient electric energy economy record.

Electricity use



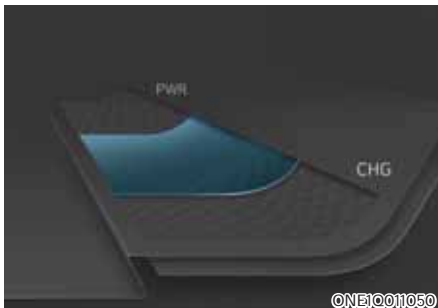
In order to check the current energy consumption for each system of the vehicle, select 'Menu → Electricity Use' on the screen.



1. 'Battery care' shows the momentary power and energy consumption which are used when:
 - Operating the winter mode to increase the battery temperature during winter to improve the driving performance.
 - Cooling down the battery temperature during summer to prevent over temperature of the battery.
2. 'Climate' shows the power and energy consumption which are used by the heater or air conditioner.

3. 'Electronics' shows the power and energy consumption which are used by the vehicle systems including the cluster, infotainment system (speaker and navigation), headlamp, vehicle control unit, etc.
4. 'Driving' shows the total power and energy consumption of the driving motor's driving energy and regenerative energy.

Power/Charge Gauge



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.



ONE10011011

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 miles) 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 ON.

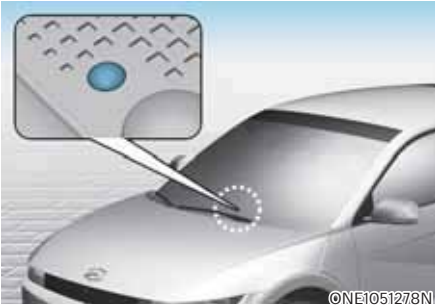
Aux. Battery Saver+

The Aux. Battery Saver+ is a function that monitors the charging status of the 12 V auxiliary battery.

If the auxiliary battery level is low, the main high voltage battery charges the auxiliary battery.

i Information

- **The Aux. Battery Saver+ activates maximum of 20 minutes. If the Aux. Battery Saver+ function activates more than 10 times consecutively, in the Automatic Mode the function will stop activating, judging that there is a problem with the auxiliary battery. In this case, drive the vehicle for some period of time. The function will start activating if the auxiliary battery returns to normal.**
- **The Aux. Battery Saver+ function cannot prevent battery discharge if the auxiliary battery is damaged, worn out, used as a power supply or unauthorized electronic devices are used.**
- **If the Aux. Battery Saver+ function was activated the high voltage battery level may have decreased.**

 **WARNING**


When the function is activating the indicator lamp will illuminate and high voltage electricity will be flowing in the vehicle. Do not touch the high voltage electric wire (orange), connector, and all electric components and devices. This may cause electric shock and lead to injuries. Also, do not modify your vehicle in any way. This may affect your vehicle performance and lead to an accident.

Warning and Indicator lights (related to electric vehicle)

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 approximately 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 Start/Stop button is in the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- 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. (Unless both Service Warning Light and Power Down Indicator Light illuminate at the same time, it is not a failure.)
 - 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.**
- **When the power is limited for the safety of the high-powered parts of an electric vehicle, the power down indicator light illuminates. 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.**

Charging Indicator Light



This warning light illuminates:

- When charging the high voltage battery.

High Voltage Battery Level Warning Light



This warning light illuminates:

- When the high voltage battery level is low.
- When the warning light turns ON, charge the battery immediately.

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.

In this case, 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 can increase.

Cluster display messages

Shift to P to start charging

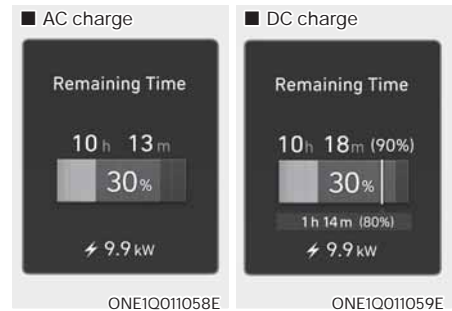


OOSEV040497L

This message is displayed if you connect the charging cable without the gear in the P (Park) position.

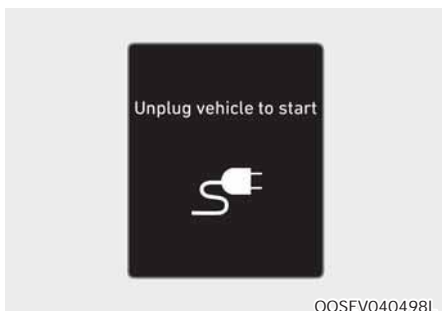
Shift to P (Park) before connecting the charging cable.

Remaining time

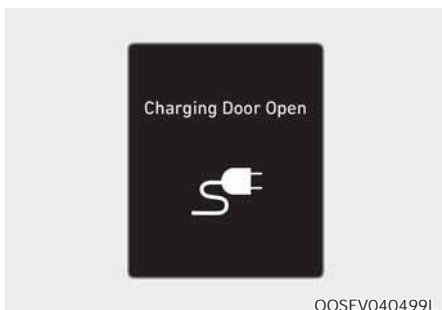


This message displays how much time remains until the battery is charged to the selected target battery charge level.

Unplug vehicle to start

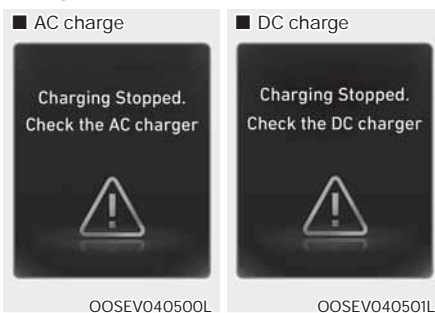


This message is displayed when you start the vehicle without unplugging the charging cable. Unplug the charging cable, and then turn on the vehicle.



This message is displayed when the vehicle is driven with the charging door opened. Close the charging door and then start driving.

Charging Stopped. 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 charging
 - The charging cable is damaged

In this case, check whether there is any problem with the external AC or DC charger and charging cable. If the same problem occurs when charging the vehicle with a normally operating AC charger or genuine HYUNDAI portable charger, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

Charging Stopped. Check the cable connection



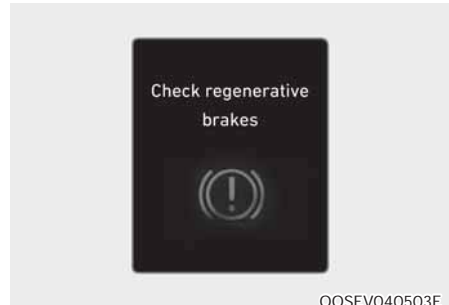
OOSEV040502L

This warning message is displayed when charging is stopped because the charging connector is not correctly connected to the charging inlet.

In this case, separate the charging connector and re-connect it and check whether there is any problem (external damage, foreign substances, etc.) with the charging connector and charging inlet.

If the same problem occurs when charging the vehicle with a replaced charging cable or genuine HYUNDAI portable charger, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

Check regenerative brakes

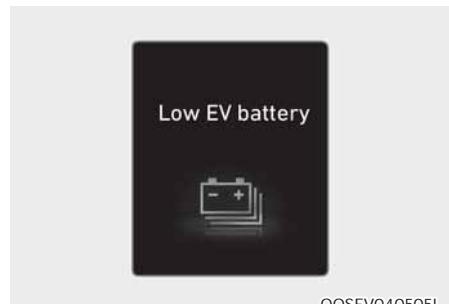


OOSEV040503E

This warning message is displayed when the regenerative brake system does not work properly.

In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Low EV battery



OOSEV040505L

When the high voltage battery level reaches below approximately 10%, this warning message is displayed.

The warning light on the instrument cluster (⚠️) will turn ON simultaneously.

Charge the high voltage battery immediately.

Charge immediately. Power limited



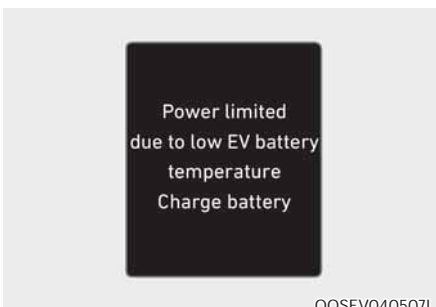
OOSEV040506L

When the high voltage battery level reaches below approximately 5%, this warning message is displayed.

The warning light on the instrument cluster (🔋) and the power down warning light (🔌) will turn on simultaneously.

The vehicle's power will be reduced to minimize the energy consumption of the high voltage battery. Charge the battery immediately.

Power limited due to low EV battery temperature. Charge battery



OOSEV040507L

Both warning messages are displayed to protect electric vehicle system when outside temperature is low. If the high voltage battery charging level is low and parked outside in low temperature for a long time, vehicle power could be limited.

Charging the battery before driving helps increase power.

NOTICE

If these warning messages are still displayed even after the ambient temperature has increased, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

EV Battery Overheated! Stop vehicle

This warning message is displayed to protect battery and electric vehicle system when the high voltage battery temperature is too high.

Turn off the Start/Stop button and stop the vehicle so that the battery temperature decreases.

Power limited

This warning message is displayed:

- When the START/STOP button is in the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- 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. (Unless both Service Warning Light and Power Down Indicator Light illuminate at the same time, it is not a failure.)
 - 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

- When this warning message is displayed, do not accelerate or start the vehicle suddenly.
- When the power is limited for the safety of the high-powered parts of the electric vehicle, the warning message is displayed. Your vehicle may not be driven, or may roll back on a slope with the warning message displayed due to the limitation of vehicle power.

Stop vehicle and check power supply



This warning message is displayed when a failure occurs in the power supply system.

In this case, park the vehicle in a safe location and we recommend that you have your vehicle towed to the nearest authorized HYUNDAI dealer and have the vehicle inspected.

Check electric vehicle system



This warning message is displayed when there is a problem with the electric vehicle control system.

Refrain from driving when the warning message is displayed.

In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

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.

SAFETY PRECAUTIONS FOR ELECTRIC VEHICLE

If an accident occurs



WARNING

- When a vehicle accident occurs, move the vehicle to a safe place, turn OFF the vehicle and disconnect the high voltage cut-off switch from the auxiliary battery (12V) to prevent high voltage electricity from flowing.
- If electric wires are exposed from inside or outside the vehicle, do not touch the wires.

Also, do not touch the high voltage electric wire (orange), connector, and all electric components and devices. This may cause electric shock and lead to injuries.



WARNING

- When a vehicle 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 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.



WARNING

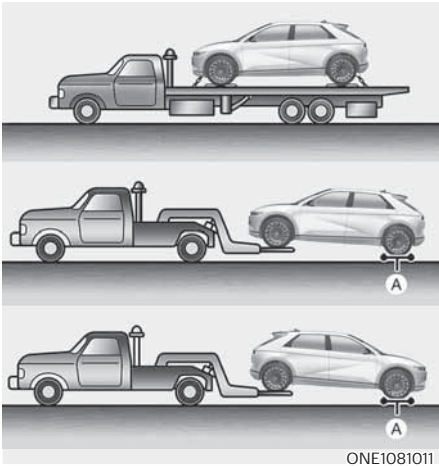
- If a small scale fire occurs, use a fire extinguisher (ABC, BC) that is meant for electrical fires. If it is impossible to extinguish the fire in the early stage, maintain a safe distance from the vehicle and immediately call your local fire emergency responders. Also, advise them that an electric vehicle is involved.
- If the fire spreads to the high voltage battery, large amount of water is needed to put out the fire. Using small amount of water or fire extinguishers not meant for electrical fires could cause serious injury or death from electrical shocks.



WARNING

- If you cannot put out the fire immediately, the high voltage battery may explode. Evacuate to a safe place and do not let other people approach the site. Contact the fire department and notify them of an electric vehicle fire.
- If the vehicle is flooded with water, immediately turn off the vehicle and evacuate to a safe place. We recommend to contact the fire department or an authorized HYUNDAI dealer.

WARNING



[A] : Dollies

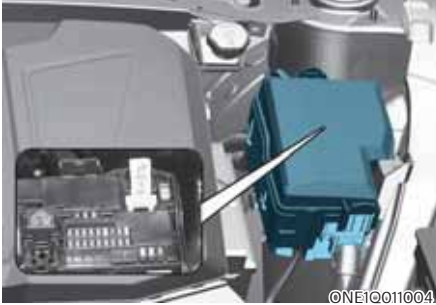


- If towing is required, lift all four wheels off the ground and tow the vehicle. If you must tow the vehicle using only two wheels, lift the rear wheels off the ground and tow the vehicle.
- If you tow the vehicle while the rear wheels are touching the ground, the vehicle motor may generate electricity and the motor components may be damaged or a fire may occur.
- When a vehicle fire occurs due to the battery, there is a risk of a second fire. Contact the fire department when towing the vehicle.

Other precautions for electric vehicle

- 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.
- When you clean the motor compartment, do not use high pressure water to wash. This may cause an electric shock due to a discharge in high voltage electricity, or damage the vehicle's electric system.
- We recommend that you use or install genuine Hyundai part or the equivalent (of the genuine part) specified for your vehicle.

High voltage cut-off switch



Pull down the yellow lever in the high voltage cut-off switch to shut down high voltage battery.



WARNING

Never disconnect the high voltage cut-off switch except in an emergency situation.

Serious problems may occur, such as the vehicle will not start.

NOTICE

Putting the excessive force to the switch lever while shutting down the high voltage battery may severely damage the high voltage cut-off switch.

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EXTERIOR OVERVIEW (I)

■ Front view

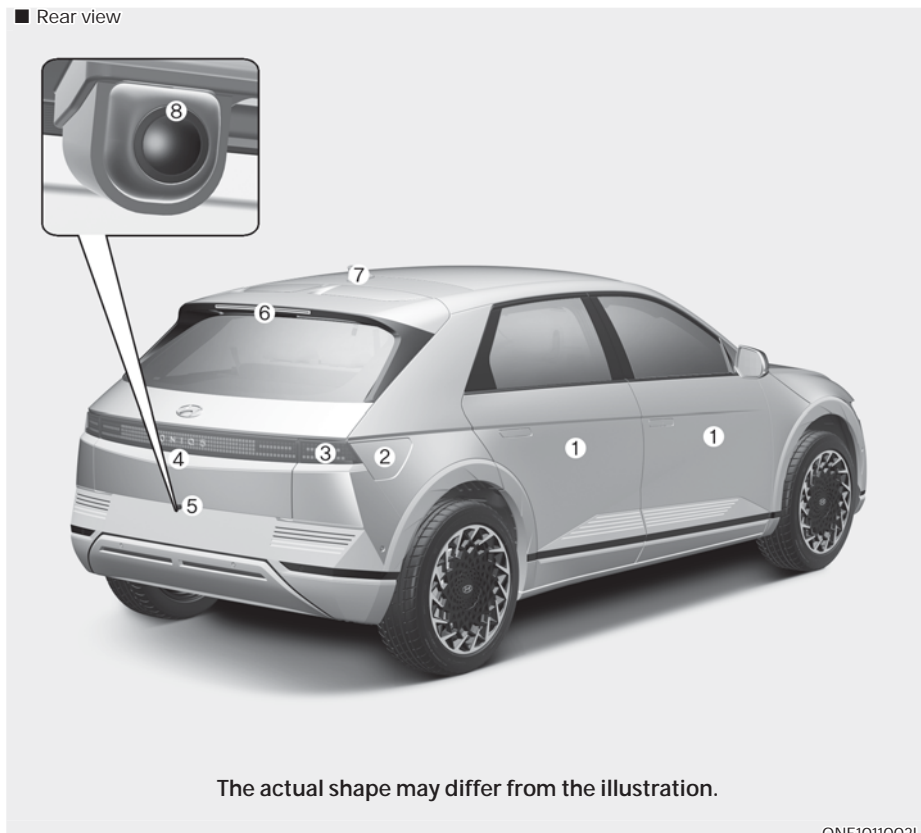


ONE1011027L

- | | | | |
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EXTERIOR OVERVIEW (II)

■ Rear view



ONE1011002L

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■ Right-hand drive



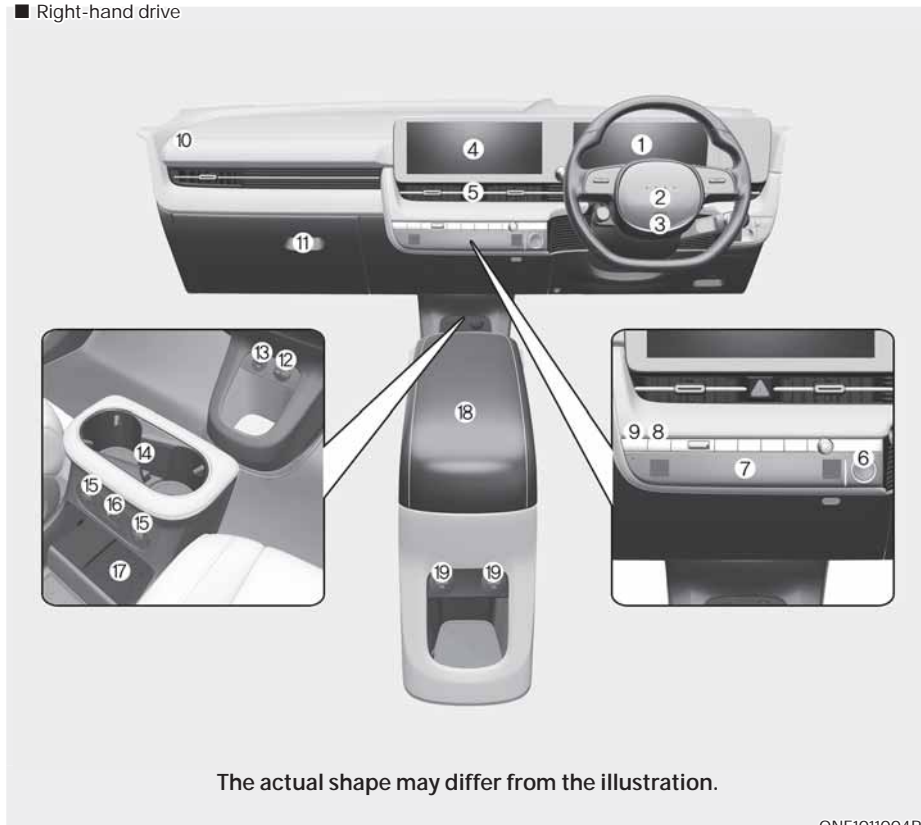
The actual shape may differ from the illustration.

ONE1011003R

- | | |
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INSTRUMENT PANEL OVERVIEW (I)

■ Right-hand drive

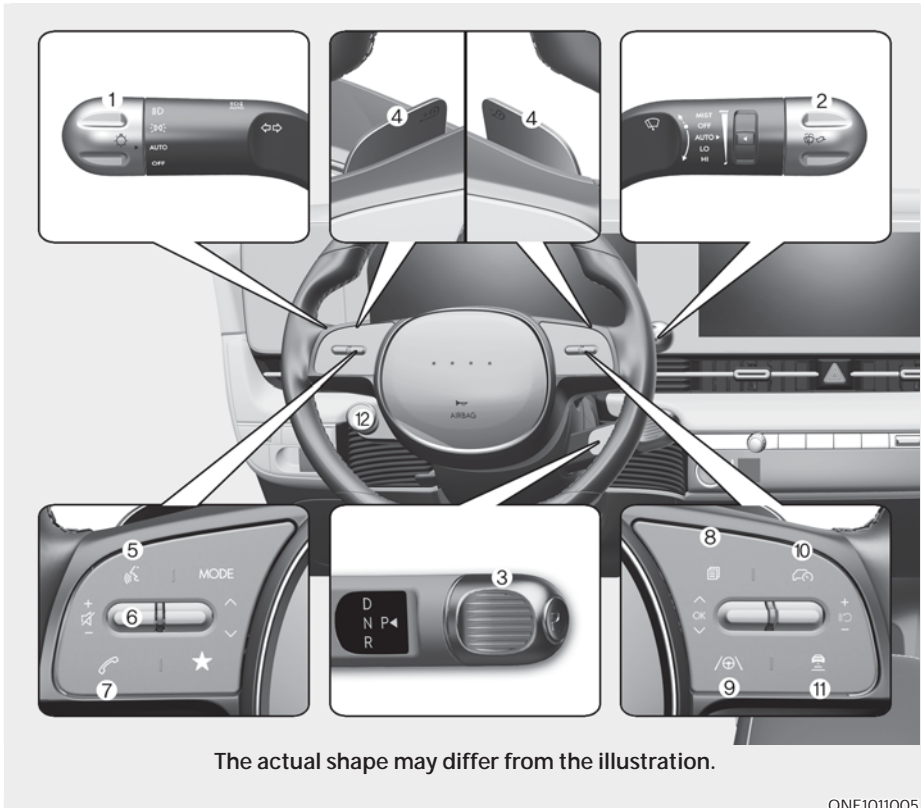


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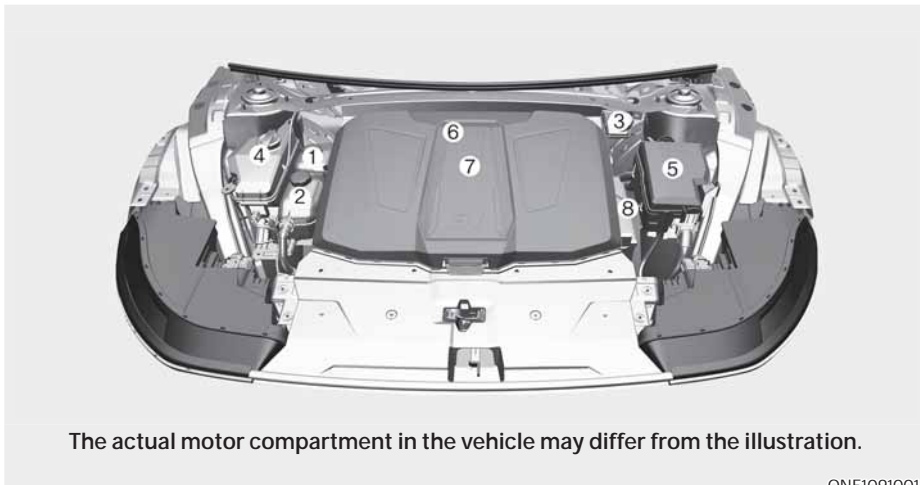
- | | | | |
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ONE1091001

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4. Windshield washer fluid reservoir	10-14	8. Battery (12 volt)	10-19

DIMENSIONS

Items	mm (in)	
Overall length	4,635 (182.48)	
Overall width	1,890 (74.41)	
Overall height	1,625 (63.98)/1,665 (65.55)*	
Tread	Front	Rear
	1,625 (63.98)	1,635 (64.37)
Wheelbase	3,000 (118.11)	

* : if equipped with shark fin antenna

ELECTRIC VEHICLE SPECIFICATIONS

Items	Specifications	
Motor	Max. output (kW)	160
	Max. torque (Nm)	346.2
Battery (Lithium-ion)	Capacity (kWh)	72.6
	Power output (kW)	160
	Voltage (V)	650
Charger (OBC)	Max. output (kW)	10.5

OBC : On-Board Battery Chargers

BULB WATTAGE

Light bulb		Bulb type	Wattage	
Front	Headlamp	Low	LED	
		High	LED	
	Turn signal lamp		STD:PY21W OPT:LED	STD:21W OPT:LED
	Position lamp		LED	LED
	Daytime Running Lamp (DRL)		LED	LED
	Front garnish lamp		LED	LED
	Front trunk lamp		LED	LED
Rear	Stop lamp		LED	LED
	Tail lamp		LED	LED
	Turn signal lamp		STD:PY21W OPT:LED	STD:21W OPT:LED
	Reverse lamp		STD: P21W OPT:LED	STD:21W OPT:LED
	License plate lamp		LED	LED
	Fog lamp		LED	LED
	High mounted stop lamp		LED	LED
Interior	Front seat map and room lamp		LED	LED
	Rear seat room lamp (without vision roof and solar roof)		LED	LED
	Rear seat personal lamp (with vision roof and solar roof)		LED	LED
	Vanity mirror lamp		FESTOON 5W	5W
	Glove box lamp		LED	LED
	Door mood lamp		LED	LED
	Luggage compartment lamp		FESTOON 10W	10W

TIRES AND WHEELS

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

NOTICE

- Ambient temperature affects the tire pressure (about 7kPa (psi) for every 7°C (12°F) change). If colder temperatures are anticipated, it is permissible to increase cold tire inflation pressure by up to 20 kPa (3 psi) over the specification. If extreme temperature changes are expected, be sure to check and adjust tire pressure accordingly.
- Tire inflation pressure decreases with higher elevation, and increases with lower elevation (about 10 kPa (2.4 psi) for every kilometer (or mile) elevation change). Be sure to check and adjust tire pressure accordingly when driving through changing elevations.
- 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	R-1234yf
		Without heat pump	
	Type B	Heat pump	R-134a
		Without heat pump	
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 type	Extended type	
2WD: 2370 kg (5225 lbs.) 4WD: 2480 kg (5467 lbs.)	2WD: 2430 kg (5357 lbs.) 4WD: 2540 kg (5600 lbs.)	527ℓ (18.6 cu ft)

AVAILABLE FRONT TRUNK WEIGHT

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

Available front trunk weight depends on the specifications.

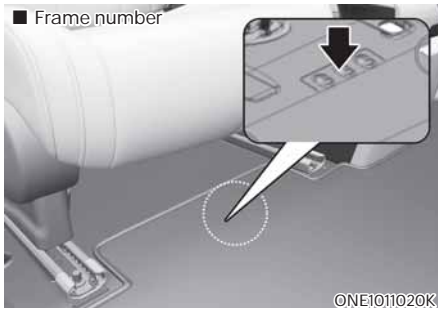
RECOMMENDED LUBRICANTS AND CAPACITIES

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
Reduction gear fluid	3.4 + 0.1 ℓ	HK ATF 65 SP4M-1
Coolant (Electric Devices & Motor)	Approx. 6.4 ℓ	Designated coolant water for electric vehicles
LCW Coolant (High Voltage Battery)	Approx. 11.2 ℓ	Designated coolant water for electric vehicles
Brake fluid	As required	DOT 4

VEHICLE IDENTIFICATION NUMBER (VIN)



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.



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



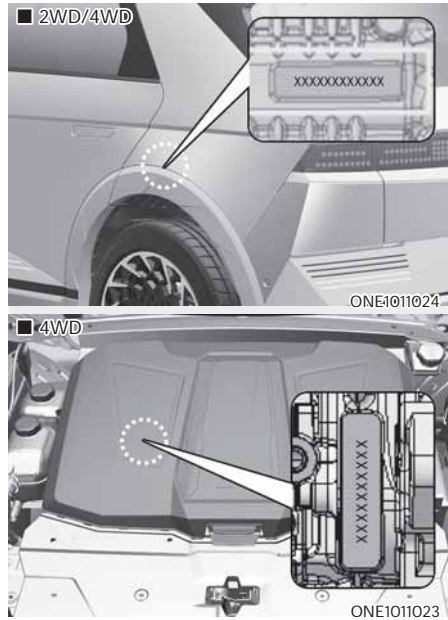
The vehicle certification label attached on the driver's (or front passenger's) side center pillar gives the vehicle identification number (VIN).

TIRE SPECIFICATION AND PRESSURE LABEL



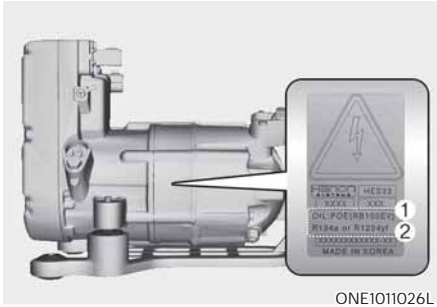
The tires supplied on your new vehicle are chosen to provide the best performance for normal driving. The tire label located on the driver's side center pillar gives the tire pressures recommended for your vehicle.

MOTOR NUMBER



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

CE CE 0678

CE0678

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>

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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. Air bags are designed to supplement seat belts, not to replace them. So even though your vehicle is equipped with air bags, 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.

Air bag hazards

While air bags 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 air bag. 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 mobile 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 mobile devices (for example, MP3 players, phones, navigation units, etc.) ONLY when your vehicle is parked or safely stopped.
- ONLY use your mobile 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 mobile 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.

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.

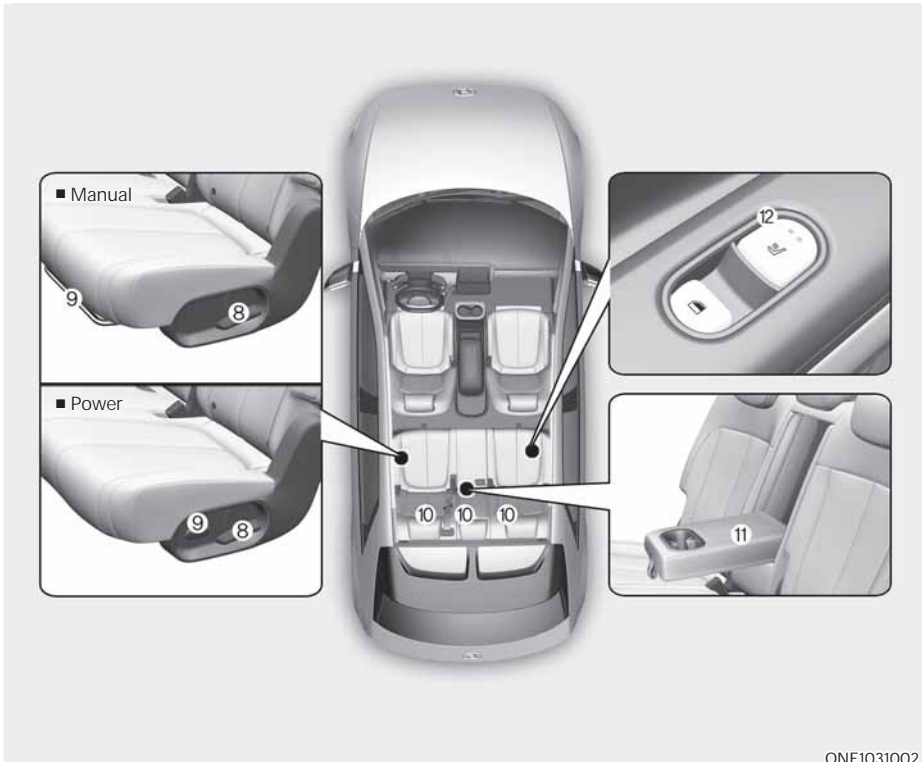
SEATS

**Front seat**

- (1) Seat sliding forward or rearward/Cushion height/Seat cushion(Relaxation comfort) angle
- (2) Seatback angle
- (3) Lumbar support

- (4) Relaxation comfort seat switch
- (5) Rear seat control switch
- (6) Leg support
- (7) Headrest

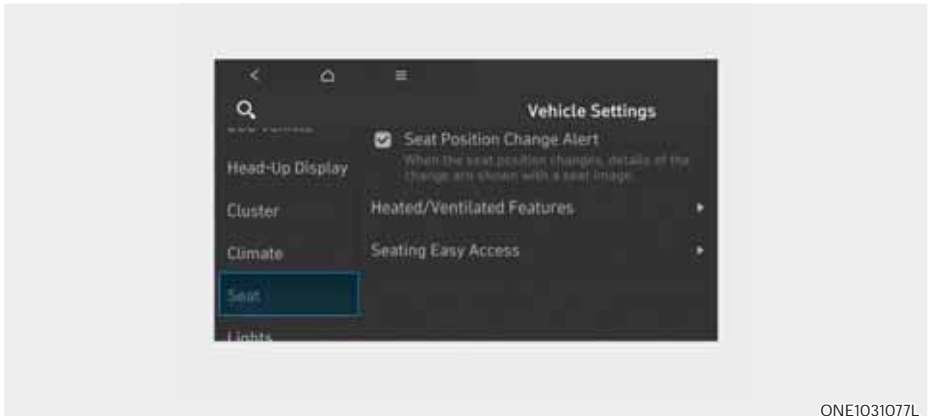
* Relaxation: Relax + Position



Rear seat

- (8) Seatback angle / Seatback folding lever
- (9) Seat slide forward or rearward

- (10) Headrest
- (11) Armrest
- (12) Seat warmer



ONE1031077L

Infotainment system

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

- Seat position change alert : When the seat position changes, details of the change are shown with a seat image.
- Heated/Ventilated features
 - Auto. Controls That Use Climate Control Settings (for driver's seat) : The seat temperature is automatically controlled.
- Seating easy access
 - Steering wheel easy access : Moves the steering wheel when the driver enters or leaves the vehicle.
 - Driver seat easy access : The distance (Normal/Extended/Off) the seat automatically moves when the driver enters or leaves the vehicle may be selected.

Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

 **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 air bags 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.

Air bags

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

 **WARNING**

To reduce the risk of serious injury or death from an inflating air bag, 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 air bag.
- 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.

Manual adjustment (if equipped)

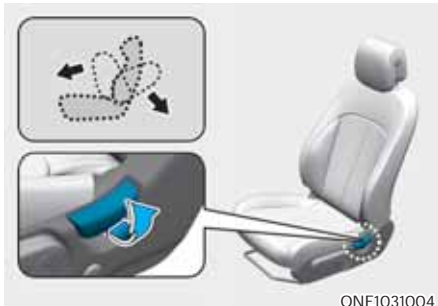
The front seat can be adjusted by using the levers located underneath the seat cushion. Before driving, adjust the seat to the proper position so that you can easily control the steering wheel, foot pedals and controls on the instrument panel.



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.



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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 protections of your restraint system (seat belts and/or air bags) is greatly reduced by reclining your seatback.

WARNING

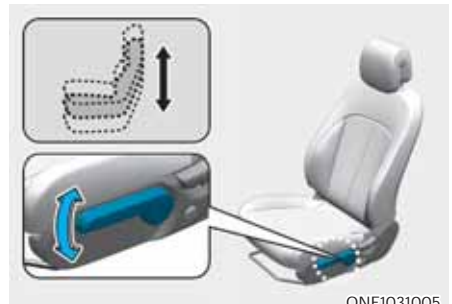
NEVER ride with a reclined seatback when the vehicle is moving.

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.



ONE1031005

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

To adjust the lumbar support:

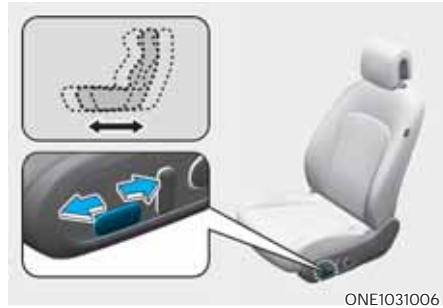
- Press the front portion of the switch (1) to increase the support or the rear portion of the switch (2) to decrease the support.

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)

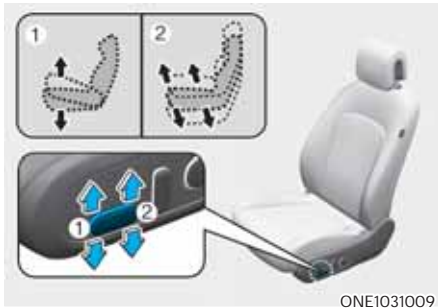
The front seat can be adjusted by using the control switches located on the outside of the seat cushion. Before driving, adjust the seat to the proper position so that you can easily control the steering wheel, foot pedals and controls on the instrument panel.



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.

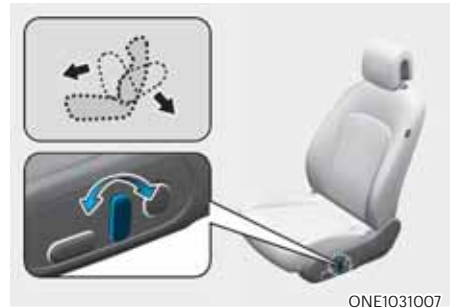
Release the switch once the seat reaches the desired position.

- 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 protections of your restraint system (seat belts and air bags) 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.

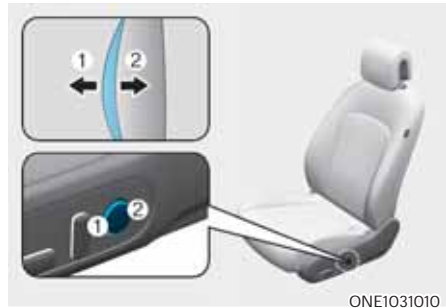
Seat belts must be snug against your hips and chest to work properly. When the seatback is reclined, the shoulder belt cannot do its job because it will not be snug against your chest. Instead, it will be in front of you. During an accident, you could be thrown into the seat belt, causing neck or other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

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.



ONE1031011

Relaxation comfort seat (for Driver's seat, passenger's 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.



ONE1031012

- Driver/passenger relaxation comfort seat switch



ONE1031013

To activate relaxation comfort seat
Press the switch (1) more than 0.5 seconds, an alarm appears on the infotainment screen. Then, press the switch (1) 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.

When relaxation comfort seat is activated:

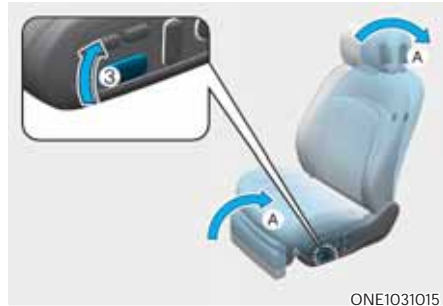
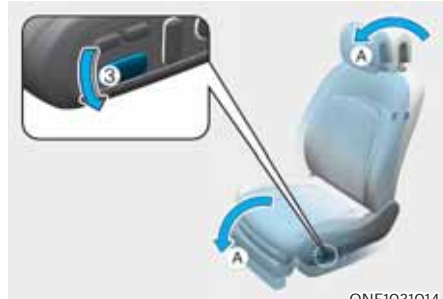
1. The seat cushion will be moved forward or rearward automatically.
2. The seat cushion, seatback angle and leg support will be adjusted.

In the following cases, an alarm appears on when the infotainment screen is on 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

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.



[A] : Moves simultaneously

You can adjust moves simultaneously the seat directly by using the seat adjustment switches (3).

Push down the forward part of the switch (3) to move back the chair to the original position.

Pull up the forward part of the switch (3) to adjust the seat to the relaxation comfort position.

Even when the relaxation comfort seat is operated by others, the additional adjustment is possible by pressing relaxation comfort seat switches.

- To deactivate relaxation comfort seat If you press the front portion of the switch (2) while the seat is in the relaxation comfort seat position, the seat return backs to the original position.

When relaxation comfort seat is deactivated:

- The driver seat will return to the position which the gear was in P (Park).
- Passenger seat will return to the original position.

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

- When the gear is not in P (Parking).
- When the vehicle is moving more than 3 km/h(1.8 mph).

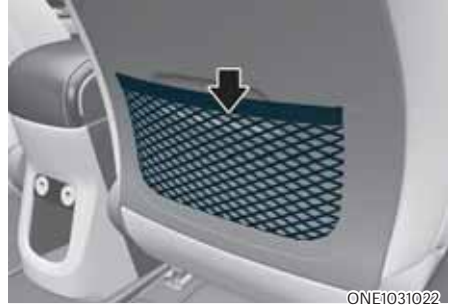
Information

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

Rear seat control switch (if equipped)



The front and rear seat passengers may use the switches to control the rear seats.

- Sliding forward or rearward:
Press the switch (1) or (2) to move the second row right side seat forward or rearward.
Press the switch (3) or (4) to move the second row left side seat forward or rearward.



WARNING

Take the following precautions:

- Adjusting the seats
 - NEVER attempt to adjust the seat while the vehicle is moving. The seat may suddenly move and may injure the passenger.
 - Make sure that the seat is locked in place after the adjustment. If not, the seat might move unexpectedly resulting in an accident.
- Folding the seats
 - Do not fold the seatback when the seat is occupied (for example, passenger, pets or luggage). It may injure the passenger or pet, or damage the luggage.
 - 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 case of an accident or sudden stop.
 - Objects carried on the folded down seatback should not extend higher than the top of the front seatbacks. This could allow cargo to slide forward and cause injury or damage during sudden stops.
 - When returning the rear seatback from a folded to an upright position, hold the seatback and return it slowly. Ensure that the seatback is completely locked into its upright position by pushing on the top of the seatback. In an accident or sudden stop, the unlocked seatback could allow cargo to move forward with great force and enter the passenger compartment, which could result in serious injury or death.
 - When folding the seatback, slightly pushing the seatback or headrest against the folding direction to control the folding speed. Without the push, the seatback may abruptly fold down and cause injuries when the lever is pulled.

- **Loading cargo**
 - Make sure the vehicle is off, the gear shifted to P (Park), and the parking brake is securely applied whenever loading or unloading cargo. Failure to take these steps may allow the vehicle to move if the shift button or shift dial is inadvertently pressed or rotated to another position.
 - When cargo is loaded through the rear passenger seats, ensure the cargo is properly secured to prevent it from moving while driving.
- Do not place objects in the rear seats, since they cannot be properly secured and may hit vehicle occupants in a collision causing serious injury or death.



CAUTION

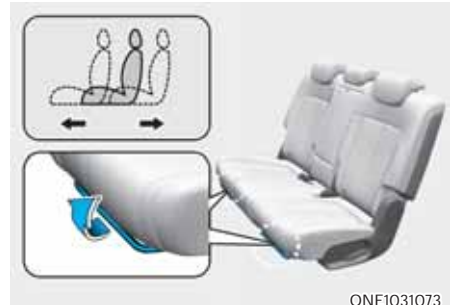
Do not allow your hands or fingers to get caught in the seat mechanisms while adjusting the seats.

NOTICE

To prevent damage to the vehicle:

- **Rear seat belts**
Before folding the seatback, insert the seat belt buckle in the holder between the seatback and cushion. And insert the seat belt webbing in the guide to prevent the seat belt from being damaged.
- **Cargo**
Be careful when loading cargo through the rear passenger seats to prevent damage to the vehicle interior.

Manual adjustment



Forward and rearward

To move the seat forward or rearward:

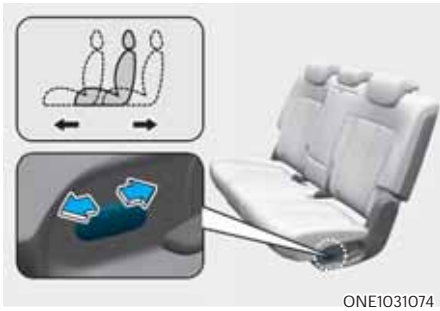
1. Pull the seat slide adjustment lever up and hold it.
2. Slide the seat to the position you desire.
3. Release the lever and make sure the seat is locked in place.



Information

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

Power adjustment (if equipped)



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.



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.

Folding the rear seats

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

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.

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

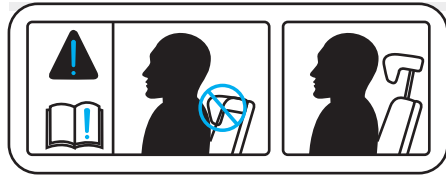
To reduce the risk of serious injury or death in an accident, take the following precautions when adjusting your headrests:

- 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

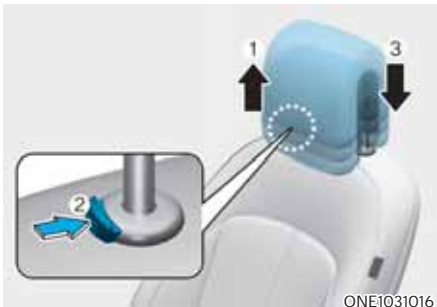
To prevent damage, **NEVER** hit or pull on the headrests.

Front seat headrests



ONE1031076L

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



ONE1031016

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).



ONE1031017

Forward and rearward adjustment

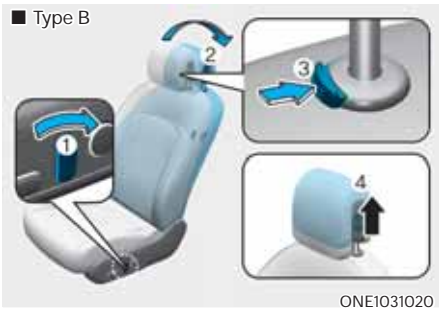
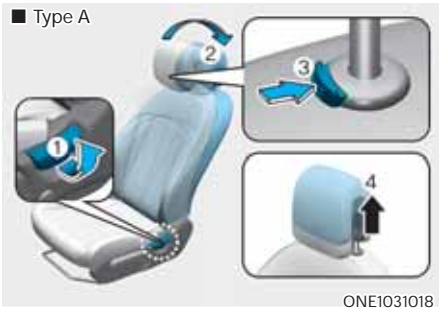
The headrest may be adjusted forward by pulling the headrest forward to the desired detent. To adjust the headrest to it's furthest rearwards position, pull it fully forward to the farthest position and release it.

NOTICE



OH1038136

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

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

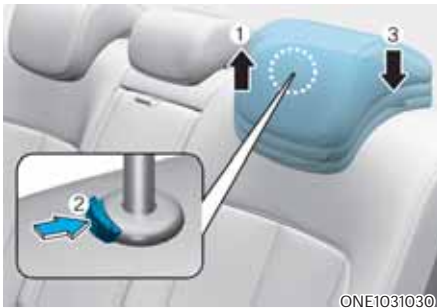
Always make sure the headrest locks into position after reinstalling and adjusting it properly.

Rear seat headrests



ONE1031029

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



ONE1031030

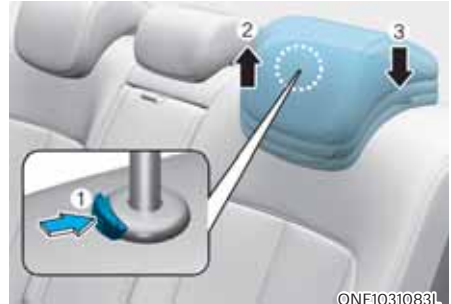
Adjusting the height up and down

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).



ONE1031083L

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 a **SERIOUS BURN**, 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 consumes 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



While the vehicle is running, touch Heating/Ventilation icon in the infotainment home screen.



Press WARMER in the front climate control panel.



To activate seat warmer of each front seats, touch ^ icon on the infotainment screen. Adjust the temperature by pressing either ^ or v icons.

The seat warmer will automatically stop when the seat temperature reaches certain level and will automatically reactivate when the seat temperature drops below certain temperature.

- Manual temperature control
Refer to the infotainment system web manual for manual temperature control.
- Automatic temperature control
The seat warmer starts to automatically control the seat temperature in order to prevent low temperature burns after being manually turned on.

OFF → HIGH (3) → MEDIUM (2) → LOW (1)

30 min 60 min

You may manually touch the icon to increase seat temperature. However, the seat temperature is automatically adjusted again.

- Auto. Controls That Use Climate Control Settings (for driver's seat)

The seat warmer automatically controls the seat temperature depending on the ambient temperature when the vehicle is running.

To use this function, it must be enabled from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Seat → Heated/Ventilated Features → Auto. Controls That Use Climate Control Settings → Seat Warmer/Ventilation

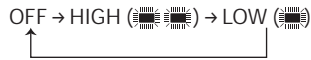
- The seat warmer defaults to the OFF position whenever the Start/Stop button is pressed to the ON position. However, if the Auto. Controls That Use Climate Control Settings function is On, the driver's seat warmer will turn on and off depending on the ambient temperature.

Rear seat warmers (if equipped)

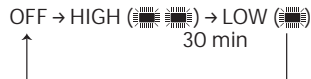


- While the vehicle is running, press seat warmer switches located in each seat to warm the rear seat.
- The seat warmer will automatically stop when the seat temperature reaches certain level and will automatically reactivate when the seat temperature drops below certain temperature.

- Manual temperature control
Each time you press the switch, the temperature setting of the seat is changed as follows :



- Automatic temperature control
The seat warmer starts to automatically control the seat temperature in order to prevent low temperature burns after being manually turned on.



You may manually push the switch to increase seat temperature. However, the seat temperature is automatically adjusted again.

- The seat warmer defaults to the OFF position whenever the Start/Stop button is pressed to the ON position.

- The rear seat warmers can be adjusted from the infotainment screen.



ONE1031082L

- Touch rear heat icon in the Heating/Ventilation infotainment screen.



ONE1031078L

To activate seat warmer of each rear seats, touch \wedge icon on the infotainment screen. Adjust the temperature by pressing either \wedge or \vee icons.

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)

■ Infotainment system



ONE1031085L

While the vehicle is running, touch Heating/Ventilation icon in the infotainment home screen.

■ Climate control panel



ONE1031081

Press WARMER in the front climate control panel.



ONE1031080L

To activate air ventilation of each front seats, touch ∨ icon on the infotainment screen. Adjust the airflow by pressing either ^ or ∨ icons.

- If the air ventilation seat is positioned at HIGH, the airflow speed will increase according to vehicle speed.
- Use the air ventilation seat with the air conditioning on for more effective ventilation.
- It may take 3-5 minutes after switch operation to feel the temperature change.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

- Auto. Controls That Use Climate Control Settings (for driver's seat)

The air ventilation seat automatically controls the seat temperature depending on the ambient temperature when the vehicle is running.

To use this function, it must be enabled from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Seat → Heated/Ventilated Features → Auto. Controls That Use Climate Control Settings → Seat Warmer/Ventilation
- The air ventilation seats defaults to the OFF position whenever the Start/Stop button is pressed to the ON position. However, if the Auto. Controls That Use Climate Control Settings function is on, the driver's seat warmer will turn on and off depending on the ambient temperature.

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. Air bags 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 air bag 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 use a seat belt if the webbing or hardware is damaged.
- 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.



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



As a reminder to the driver, the driver'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 seatbelt is not fastened, the warning chime will sound for about 6 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) or stop, the corresponding warning light will illuminate.

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive 20 km/h (12 mph) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

When the seat belt is unfastened during driving, the warning light will illuminate when the speed is under 20 km/h (12 mph).

When the speed is 20 km/h (12 mph) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

Front passenger's seat belt warning

As a reminder to the front passenger, the front passenger's seat belt warning lights will illuminate for approximately 6 seconds each time the START/STOP button is turned on regardless of belt fastening.

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) or stop, the corresponding warning light will illuminate.

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive 20 km/h (12 mph) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

When the seat belt is unfastened during driving, the warning light will illuminate when the speed is under 20 km/h (12 mph). When the speed is 20 km/h (12 mph) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.



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 will illuminate for approximately 6 seconds each time the START/STOP button is in the ON position regardless of belt fastening.
- 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 until you fasten the seat belt.
- If you continue to drive without the seat belt fastened or you unfasten the seat belt when you drive 20 km/h (12 mph) and faster, the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.
- When the seat belt is unfastened during driving, the warning lights will illuminate when the speed is under 20 km/h (12 mph).
- When the speed is 20 km/h (12 mph) and faster, the warning light will blink and warning chime will sound for approximately 35 seconds.

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 10km/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). There will be an audible “click” when the tab locks into the buckle.



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.

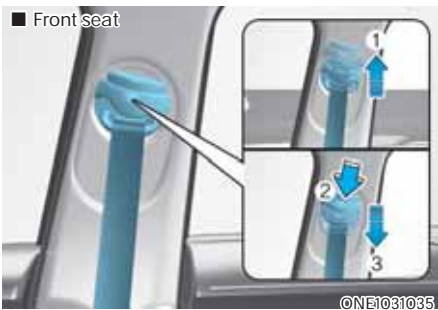
NOTICE

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.



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)



When using the rear center seat belt, the buckle with the “CENTER” mark must be used.

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



[1] : Retractor pre-tensioner seat belt
Front seat and rear outboard seat

Your vehicle is equipped with driver's and front passenger's and rear passengers 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 air bags.

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 or passenger's 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

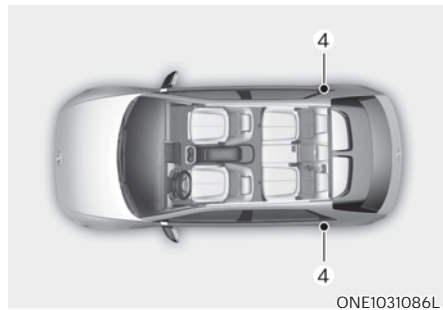
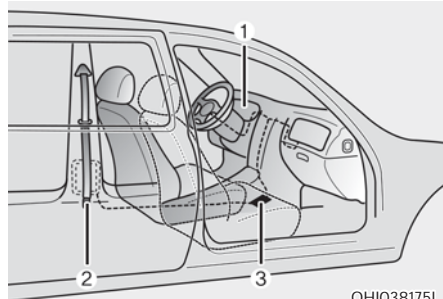
- Always wear your seat belt and sit properly in your seat.
- Do not use the seat belt if it is loose or twisted. A loose or twisted seat belt will not protect you properly in an accident.
- Do not place anything near the buckle. This may adversely affect the buckle and cause it to function improperly.
- 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 air bag warning light
- (2) Retractor pre-tensioner
- (3) SRS control module
- (4) Rear Retractor pre-tensioner

NOTICE

The sensor that activates the SRS control module is connected with the pre-tensioner seat belts. The SRS air bag 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 air bag 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.

**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**

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 travelling. Infant and Child Restraint System must be properly placed and installed in a rear seat.

For more information refer to the "Child Restraint Systems" 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 Systems" 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 air bags) 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 air bag 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 travelling.

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 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

A rearward-facing Child Restraint System provides restraint with the seating surface against the back of the child. The harness system holds the child in place, and in an accident, acts to keep the child positioned in the Child Restraint Systems and reduce the stress to the fragile neck and spinal cord.

All children under the age of one year must always ride in a rearward-facing Child Restraint System. There are different types of rearward-facing Child Restraint Systems: infant-only Child Restraint Systems can only be used rearward-facing. 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.

Keep using Child Restraint Systems in the rearward-facing position as long as children fit within the height and weight limits allowed by the Child Restraint System's manufacturer.



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.

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 (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 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	-	Yes	Yes	Yes	No	Yes
Booster Seat – full Width	ISO CRF : B3	-	Yes	Yes	Yes	No	Yes

* **F** : Forward facing, **R** : Rearward facing

Note¹⁾ : To install Universal CRS, 1st row passenger seat height should be at its highest position.

- * Never place a rearward facing Child Restraint System on the front passenger seat, unless the air bag is deactivated.
- * For semi-universal or vehicle specific CRS(ISOFIX or belted CRS), please see the vehicle list provided in the manual of CRS.
- * If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating position shall be readjusted or entirely removed.
- * 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	

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- * 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 air bag is deactivated.

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 Systems approved 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 holds a Child Restraint System during driving and in an accident. 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 will accommodate a Child Restraint System with lower attachments.

To use the ISOFIX system in your vehicle, you must have a Child Restraint System with ISOFIX attachments.

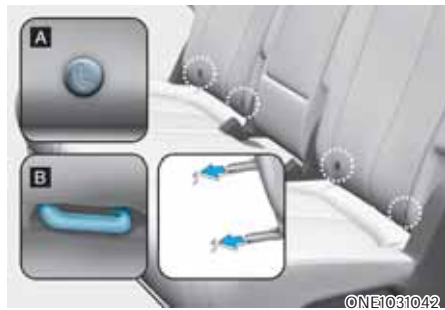
The Child Restraint System manufacturer will provide you with instructions on how to use the Child Restraint System with its attachments for the ISOFIX anchorages.



ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration.

⚠ 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. Using the outboard seat anchorages, for the CRS installation on the rear center seating position, can damage the anchorages.



[A] : ISOFIX Anchorage Position Indicator

(Type A- , Type B- ).

[B] : ISOFIX Anchorage

ISOFIX anchorages are located between the seatback and the seat cushion of the rear seat left and right outboard seating positions, indicated by the symbols.

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



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



1. Route the Child Restraint System top-tether strap over the seatback. Placing the top tether strap, follow the instructions of the Child Restraint System manufacturer.
2. Connect the top-tether strap to the top-tether anchorage, then tighten the top-tether strap according to the instructions of your Child Restraint System's manufacturer to firmly attach the Child Restraint System to the seat.



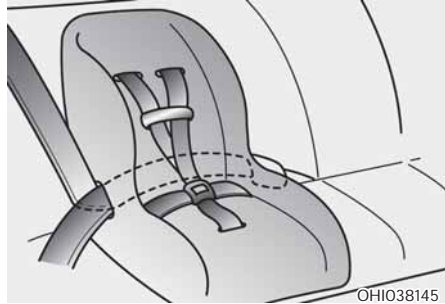
WARNING

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

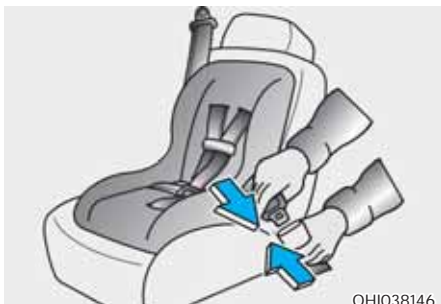
When not using the ISOFIX system, all Child Restraint Systems must be secured to a rear seat with the lap part of a lap/shoulder belt.



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 recommends the use of a top-tether with the lap/shoulder belt, see page 3-48.

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.

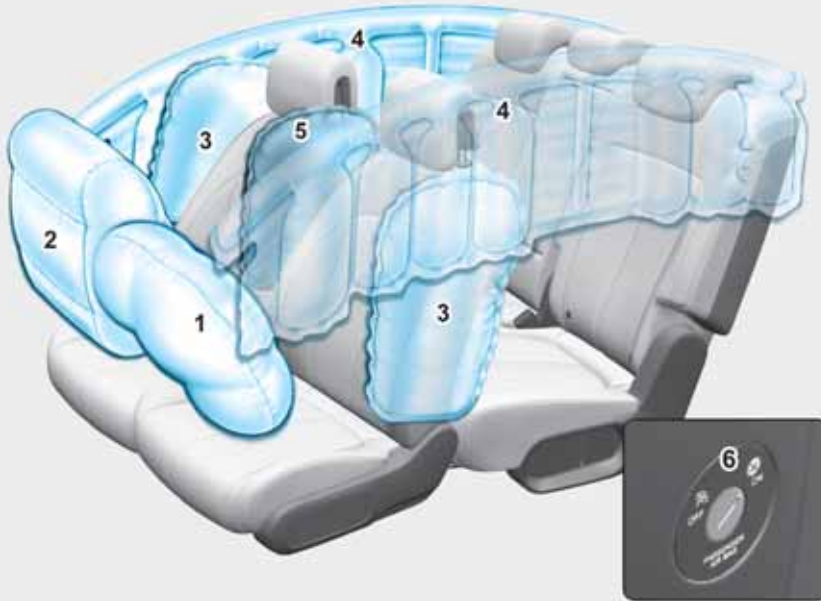
⚠ WARNING

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 air bag (if equipped with front center side air bag).

AIR BAG - SUPPLEMENTAL RESTRAINT SYSTEM

■ Left-hand drive

1.

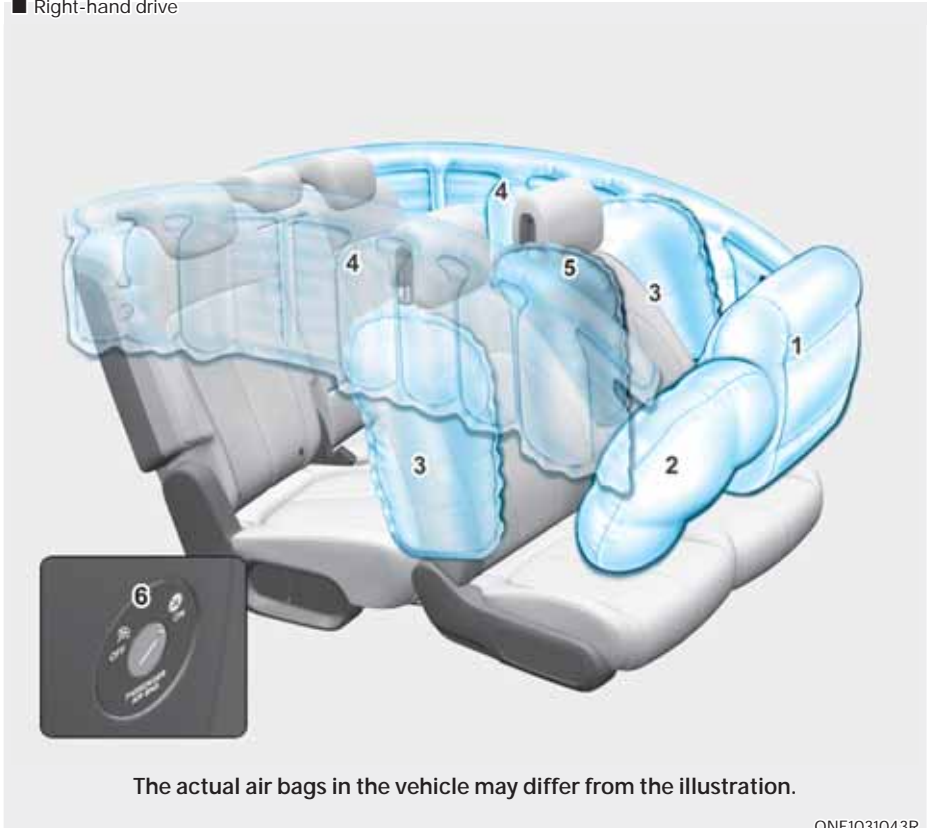


The actual air bags in the vehicle may differ from the illustration.

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- 1. Driver's front air bag
- 2. Passenger's front air bag
- 3. Side air bag
- 4. Curtain air bag
- 5. Front center side air bag
- 6. Front passenger air bag ON/OFF switch

■ Right-hand drive



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1. Passenger's front air bag
2. Driver's front air bag
3. Side air bag
4. Curtain air bag
5. Front center side air bag
6. Front passenger air bag ON/OFF switch

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

The front air bags are designed to supplement the three-point seat belts. For these air bags 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. Air bags are designed to supplement seat belts, but do not replace them. Also, air bags are not designed to deploy in every collision. In some accidents, the seat belts are the only restraint protecting you.



WARNING

AIR BAG SAFETY PRECAUTIONS

ALWAYS use seat belts and Child Restraint Systems - every trip, every time, everyone! Even with air bags, you can be seriously injured or killed in a collision if you are improperly belted or not wearing your seat belt when the air bag inflates.

NEVER place a child in any Child Restraint System or booster seat in the front passenger seat, unless the air bag is deactivated.

An inflating air bag 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.

All occupants should 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 air bag may forcefully contact the occupant causing serious or fatal injuries.

You and your passengers should never sit or lean unnecessarily close to the air bags or lean against the door or center console.

Move your seat as far back as possible from front air bags, while still maintaining control of the vehicle.

Where are the air bags?

Driver's and passenger's front air bags



Your vehicle is equipped with a Supplemental Restraint System (SRS) and lap/shoulder belts at both the driver and passenger seating positions.

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

The air bags are labeled with the letters "AIR BAG" 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 air bags, 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 air bags, while still maintaining control of the vehicle.
- Never lean against the door or center console.
- Do not allow the front passenger to place their feet or legs on the dashboard.
- No objects (such as crash pad cover, mobile phone holder, cup holder, perfume or stickers) should be placed over or near the air bag 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 air bags to deploy.
- Do not attach any objects on the front windshield and inside mirror.



Passenger's front air bag ON/OFF switch (if equipped)

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



To reactivate the passenger's front air bag:

Insert the key or a similar rigid device into the passenger's front air bag ON/OFF switch and turn it to the ON position. The passenger air bag ON indicator (Ⓚ) will illuminate.



To deactivate the passenger's front air bag:

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

i Information

The passenger's front air bag 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 air bag OFF indicator is illuminated. During a collision, the air bag will not inflate if the indicator is illuminated. Turn on the passenger's front air bag or have your passenger move to the rear seat.

**WARNING**

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

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

Side air bags and front center side air bag (if equipped)

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

The side air bags 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 air bags and pre-tensioners on both sides of the vehicle may deploy if a rollover or possible rollover is detected.

The side air bags and front center side air bag 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 air bag, 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.
 - 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 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 air bag is inflated.
- Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area the air bag 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 air bag inflates.
 - Do not install any accessories on the side or near the side air bags.
 - 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 air bags to inflate.
 - If the seat or seat cover is damaged, we recommend that the system be serviced by an authorized HYUNDAI dealer.

Curtain air bags



Curtain air bags 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 air bags 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 air bags and pre-tensioners on both sides of the vehicle may deploy if a rollover or possible rollover is detected.

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

WARNING

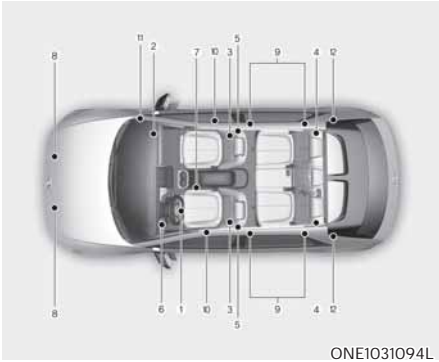
To reduce the risk of serious injury or death from an inflating curtain air bag, take the following precautions:

- 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 air bag. Also, do not attach any objects around the area the air bag 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 air bag be inspected by an authorized HYUNDAI dealer.

How does the air bags system operate?



The SRS consists of the following components:

- (1) Driver's front air bag module
 - (2) Passenger's front air bag module
 - (3) Side air bag modules
 - (4) Curtain air bag modules
 - (5) Front retractor pre-tensioner
 - (6) Air bag warning light
 - (7) SRS control module (SRSCM) / Rollover sensor
 - (8) Front impact sensors
 - (9) Side impact sensors (acceleration)
 - (10) Side impact sensors (pressure)
 - (11) Front passenger's air bag ON/OFF switch (if equipped)
 - (12) Rear retractor pre-tensioner
- * Front passenger's air bag ON/OFF lamp is located on the overhead console.

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 air bag deployment or pre-tensioner seat belt deployment.



SRS warning light

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

WARNING

If your SRS malfunctions, the air bag 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.

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 air bags, at the time and with the force needed.

The front air bags 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 air bags help provide protection in the event of a side impact or rollover by supporting the side upper body area.

- Air bags 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.
- Air bags inflate in the event of certain frontal or side collisions to help protect the occupants from serious physical injury.
- Generally, air bags 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 air bags will completely inflate and deflate in an instant. It is virtually impossible for you to see the air bags inflate during an accident. It is much more likely that you will simply see the deflated air bags 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 air bags and front center side air bag will inflate if the sensing system detects a rollover.

When a rollover is detected, curtain air bags 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 air bags must inflate rapidly. The speed of air bag inflation is a consequence of extremely short time in which to inflate the air bag 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 air bag design. However, the rapid air bag inflation can also cause injuries which can include facial abrasions, bruises and broken bones because the inflation speed also causes the air bags to expand with a great deal of force.
- There are even circumstances under which contact with the air bag can cause fatal injuries, especially if the occupant is positioned excessively close to the air bag.

You can take steps to reduce the risk of being injured by an inflating air bag. The greatest risk is sitting too close to the air bag. An air bag 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.



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



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

A fully inflated air bag, 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.



After complete inflation, the air bag 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 air bag 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 air bag 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 air bag inflates

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



WARNING

After an air bag 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 air bag.
- Do not touch the air bag storage area's internal components immediately after an air bag has inflated. The parts that come into contact with an inflating air bag may be very hot.
- Always wash exposed skin areas thoroughly with cold water and mild soap.
- We recommend that an authorized HYUNDAI dealer replace the air bag immediately after deployment. Air bags are designed to be used only once.

Noise and smoke from inflating air bag

When the air bags 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 air bag inflator. After the air bag inflates, you may feel substantial discomfort in breathing because of the contact of your chest with both the seat belt and the air bag, as well as from breathing the smoke and powder. The powder may aggravate asthma for some people. If you experience breathing problems after an air bag 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



OHI038169L

Never install a Child Restraint System in the front passenger seat, unless the air bag 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.

Why didn't my air bag go off in a collision?

There are certain types of accidents in which the air bag 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 air bag should have inflated.

Air bag collision sensors

WARNING

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

- Do not hit or allow any objects to impact the locations where air bags or sensors are installed.
- Do not perform maintenance on or around the air bag sensors. If the location or angle of the sensors is altered, the air bags may deploy when they should not or may not deploy when they should.
- Installing bumper guards with non-genuine Hyundai or non-equivalent parts may adversely affect the collision and airbag deployment performance.

To ensure correct function of the airbag system, we recommend to replace the bumper with genuine Hyundai part or the equivalent (of the genuine part) specified for your vehicle.

- Press the Start/Stop button to the OFF or ACC position and wait for 3 minutes when the vehicle is being towed to prevent inadvertent air bag deployment.
- We recommend that all air bag repairs are conducted by an authorized HYUNDAI dealer.



1. SRS control module / Rollover sensor
2. Front impact sensor
3. Side impact sensor (Pressure)

4. Side impact sensor (Acceleration)
5. Side impact sensor (Acceleration)

Air bag inflation conditions



Front air bags

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



Side and curtain air bags and front center side air bag

Side and curtain air bags 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 air bags 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 air bags 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 air bags 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 air bags may deploy. Drive carefully on unimproved roads or on surfaces not designed for vehicle traffic to prevent unintended air bag deployment.

Air bag non-inflation conditions



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



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

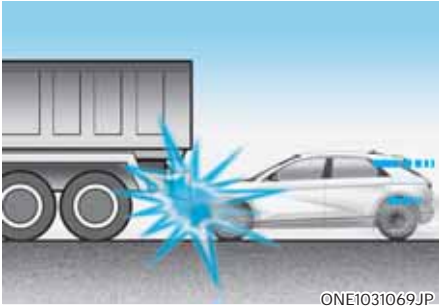


Front air bags may not inflate in side impact collisions, because occupants move in the direction of the collision, and thus in side impacts, front air bag deployment would not provide additional occupant protection.

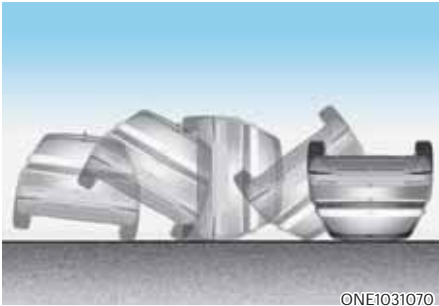
However, side and curtain air bags and front center side air bag may inflate depending on the severity of impact.



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



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. Air bags may not inflate in this “underride” situation because deceleration forces that are detected by sensors may be significantly reduced by such “underride” collisions.



Front air bags may not inflate in rollover accidents because front air bag deployment would not provide additional occupant protection.

i Information

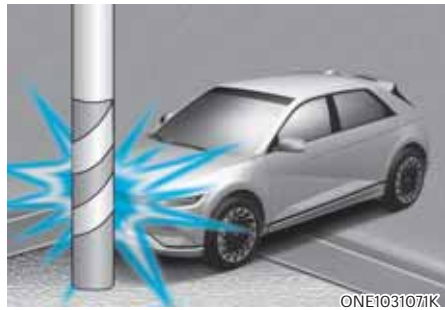
With rollover sensor

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

i Information

Without rollover sensor

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



Air bags 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 air bag 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 air bag modules on the steering wheel, instrument panel, and the front passenger's panel above the glove box.
- Clean the air bag pad covers with a soft cloth moistened with plain water. Solvents or cleaners could adversely affect the air bag covers and proper deployment of the system.
- We recommend that inflated air bags be replaced by an authorized HYUNDAI dealer.
- If components of the air bag 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 air bags.

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 air bags to inflate.

Adding equipment to or modifying your air bag 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 air bag system.

Air bag warning labels



Air bag warning labels are attached to alert the passengers of potential risks of the air bag system.

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

5. Instrument Cluster

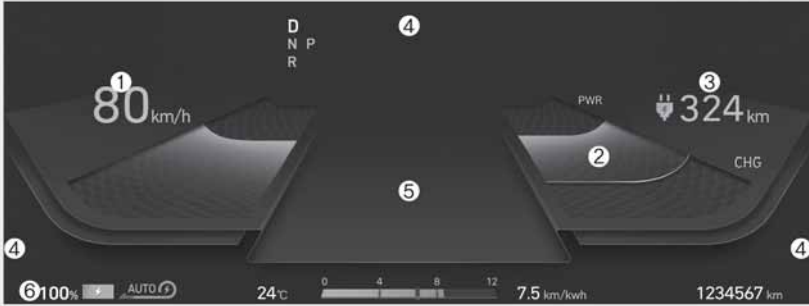
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5. Instrument Cluster

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INSTRUMENT CLUSTER



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

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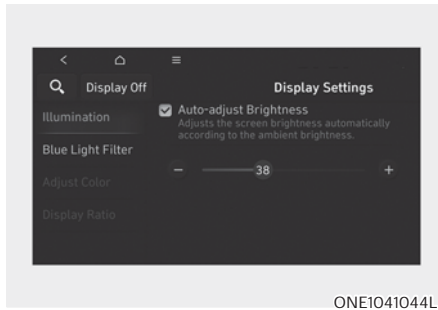
1. Speedometer
2. Power/Charge gauge
3. Distance to empty
4. Warning indicator light
5. LCD display
6. Battery SOC (State of Charge) gauge

Information

- **SNOW/NORMAL/ECO/SPORT mode by pressing the drive mode button will change the main theme of the cluster**

Instrument cluster control

Instrument panel illumination



The brightness of the instrument panel can also be adjusted from the infotainment system screen. When Start/Stop button is in the ON position, select 'Settings → Display → Illumination'.

- When 'Auto-adjust Brightness' is selected from the Settings menu, the brightness is automatically adjusted.
- When the brightness of the instrument panel illumination is adjusted, the interior switch illumination intensity is also adjusted.

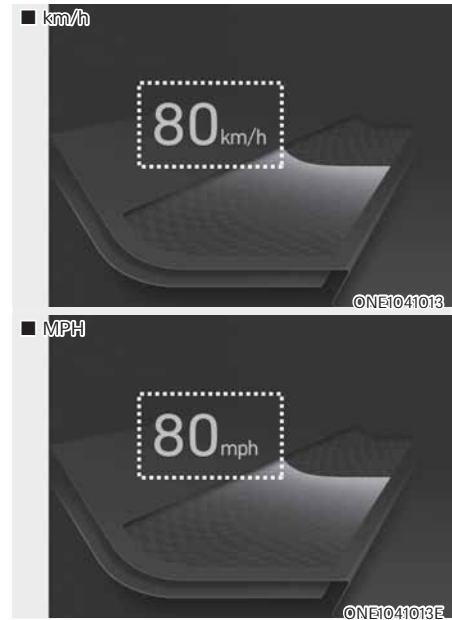


WARNING

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.

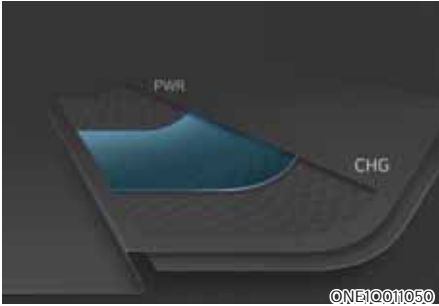
Gauges and meters

Speedometer



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



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.



ONE1Q011011

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

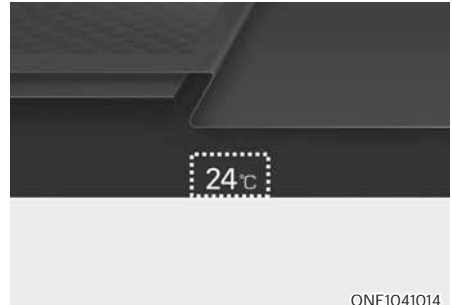
When the warning light (🔋⚡) turns ON, the vehicle can drive an additional 30 ~ 40 km (18 ~ 25 miles) depending on the driving speed, heater/air conditioner, weather, driving style, and other factors. Charging is required.

NOTICE

The output is limited as the remaining battery is low.

When the Power Down Indicator Light is on, the vehicle may be limited to a certain speed, it may be difficult to climb hills, or the vehicle may be pushed back, so charge it immediately.

Outside temperature gauge



ONE1041014

This gauge indicates the current outside air temperatures by 1°C (1°F).

Note that the temperature indicated on the LCD display may not change as quickly as the outside temperature (there may be a slight delay before the temperature changes.)

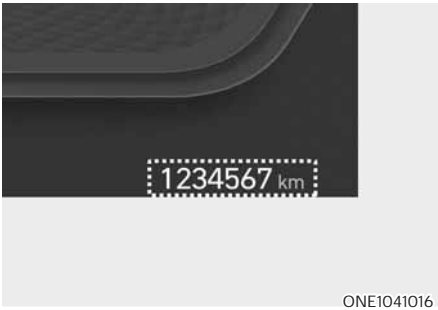
You can change the temperature unit from the Settings menu in the infotainment system screen. Select:

- General Settings → Unit → Temperature Unit → °C/°F

For detailed information, refer to the separately supplied infotainment system manual.

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

Odometer



The odometer indicates the total distance that the vehicle has been driven and should be used to determine when periodic maintenance should be performed.

Distance to empty



- The distance to empty is the estimated distance the vehicle can be driven with the remaining electric energy.
- The distance to empty varies depend on which drive mode is selected among ECO/NORMAL/SPORT mode.

For more detail information, refer to 'Distance to empty' in chapter 1.

i Information

- If the vehicle is not on level ground or the battery power has been interrupted, the distance to empty function may not operate correctly.
- 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 vary significantly based on driving conditions, driving habits, and condition of the vehicle.

Reduction gear shift indicator



The indicator displays which gear is selected.

Regenerative braking level indicator



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 "Regenerative Braking System" in chapter 6.

Warning and indicator lights

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 approximately 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 START/STOP button is in the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- 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. (Unless both Service Warning Light and Power Down Indicator Light illuminate at the same time, it is not a failure.)
 - 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.**
- **When the power is limited for the safety of the high-powered parts of an electric vehicle, the power down indicator light illuminates. 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.**

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 approximately 1 minute.

High voltage battery level warning light



This warning light illuminates:

- When the high voltage battery level is low.
- When the warning light turns ON, charge the 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.

Air bag warning light



This warning light illuminates:

- When you set the Start/Stop button to the ON position.
 - The air bag warning light illuminates for about 6 seconds and then turns off when all checks have been performed.
- The air bag warning light will remain illuminated if there is a malfunction with the Safety Restraint System (SRS) air bag operation.

If this occurs, we recommend that you have the vehicle 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.

In this case, 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 can increase.

Parking brake & brake fluid warning light



This warning light illuminates:

- When you set the START/STOP button in the ON position.
 - It illuminates for approximately 3 seconds.
 - It remains on if the parking brake is applied.
- 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.
- When the regenerative brake does not operate.

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 motor 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 working.

If the brakes fail while you are driving, shift to a lower gear for additional vehicle braking and stop the vehicle as soon as it is safe to do so.



WARNING

Parking Brake & Brake Fluid warning light

Driving the vehicle with a warning light ON is dangerous. If the Parking Brake & Brake Fluid warning light illuminates with the parking brake released, it indicates that the brake fluid level is low.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Anti-lock Brake System (ABS) warning light



This warning light illuminates:

- When you set the Start/Stop button to the ON position.
 - The ABS warning light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the ABS.

Note that the hydraulic braking system will still be operational even if there is a malfunction with the ABS.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Electronic Brake Force Distribution (EBD) system warning light



When the ABS warning and Parking Brake warning lights are on simultaneously, it may indicate a problem with the Electronic Brake Force Distribution system.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

**WARNING**

Electronic Brake Force Distribution (EBD) system warning light

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

If this occurs, avoid high speed driving and abrupt braking.

We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

NOTICE

Electronic Brake Force Distribution (EBD) system warning light

When the ABS warning light is on or both ABS and Parking Brake & Brake Fluid warning lights are on, the speedometer, odometer, or tripmeter may not work. Also, the EPS warning light may illuminate and the steering effort may increase or decrease.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

Electric Power Steering (EPS) warning light

This warning light illuminates:

- When you set the Start/Stop button to the ON position.
 - The electric powering steering warning light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the electric power steering.
 - If this occurs, we recommend that you have the vehicle 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 Warning malfunction (if equipped)
- Blind-Spot Collision Warning radar blocked (if equipped)
- LED headlamp malfunction (if equipped)
- High Beam Assist malfunction (if equipped)
- Smart Cruise Control malfunction (if equipped)
- Smart Cruise Control radar blocked (if equipped)
- Tire Pressure Monitoring System (TPMS) malfunction

To identify the details of the warning, look at the LCD display.

Electronic Parking Brake (EPB) warning light

EPB

This warning light illuminates:

- When you set the Start/Stop button to the ON position.
 - The EPB warning light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with EPB.
If this occurs, we recommend that you have the vehicle 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.

Low tire pressure warning light



This warning light illuminates:

- When you set the Start/Stop button to the ON position.
 - The low tire pressure warning light illuminates for approximately 3 seconds and then goes off.
- When one or more of your tires are significantly underinflated. (The location of the underinflated tires are displayed on the LCD display.)

For more details, refer to “Tire Pressure Monitoring System (TPMS)” section in chapter 8.

This warning light remains ON after blinking for approximately 60 seconds, or repeatedly blinks ON and OFF in 3 second intervals:

When there is a malfunction with the TPMS.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

For more details, refer to “Tire Pressure Monitoring System (TPMS)” section in chapter 8.

**WARNING****Safe Stopping**

- The TPMS cannot alert you to severe and sudden tire damage caused by external factors.
- If you notice any vehicle instability, immediately take your foot off the accelerator pedal, apply the brakes gradually with light force, and slowly move to a safe position off the road.

Forward safety warning light (if equipped)**This warning light illuminates:**

- When you set the Start/Stop button to the ON position.
 - The Forward Safety warning light illuminates for approximately 3 seconds and then goes off.
- Whenever there is a malfunction with Forward Collision-Avoidance Assist.

If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

Lane safety indicator light (if equipped)**This indicator light illuminates:**

- [Green] When the function operating conditions are satisfied.
- [White] When the function operating conditions are not satisfied.
- [Yellow] Whenever there is a malfunction with Lane Keeping Assist. If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

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 you set the Start/Stop button to the ON position.
 - The LED headlight warning light illuminates for approximately 3 seconds and then goes off.
- Whenever there is a malfunction with the LED headlight.

If this occurs, we recommend that you have the vehicle 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.

NOTICE

Continuous driving with the LED Headlight warning light on or blinking can 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:

- Setup → Vehicle Settings → Cluster → Content Selection → Icy Road Warning

For detailed information, refer to the separately supplied infotainment system manual.

***i* Information**

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.

Electronic Stability Control (ESC) indicator light



This indicator light illuminates:

- When you set the Start/Stop button to the ON position.
 - The Electronic Stability Control indicator light illuminates for about 3 seconds 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.

This indicator light blinks:

While ESC is operating.

For more details, refer to “Electronic Stability Control (ESC)” section in chapter 6.

Electronic Stability Control (ESC) OFF indicator light



This indicator light illuminates:

- When you set the Start/Stop button to the ON position.
 - The ESC OFF indicator light illuminates for approximately 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.

- Once the smart key is detected, 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.

- If the smart key is not detected, you cannot start the vehicle.

This indicator light illuminates for 2 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 indicator stalk.

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 headlamps are on and in 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 headlamps are on.

Light ON indicator light



This indicator light illuminates:

When the position lamps or headlamps are on.

**Rear fog indicator light
(if equipped)**



This indicator light illuminates:

When the rear fog lamps 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 there is a malfunction with the Auto Hold function.

If this occurs, we recommend that you have the vehicle 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 (if equipped)

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.

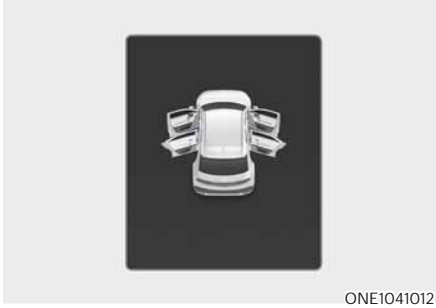
Shift to P to start vehicle

This message is displayed if you try to start the vehicle in any other position except P (Park).

Check 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

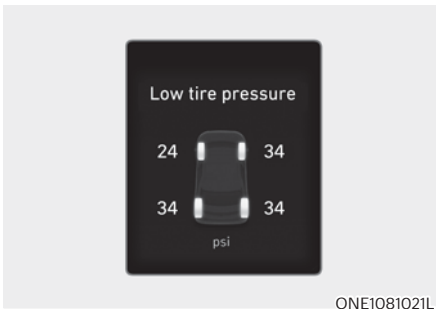


This warning is displayed if any door or hood or tailgate is left open. The warning will indicate which door is open in the display.

CAUTION

Before driving the vehicle, you should confirm that the door/ hood/tailgate are fully closed.

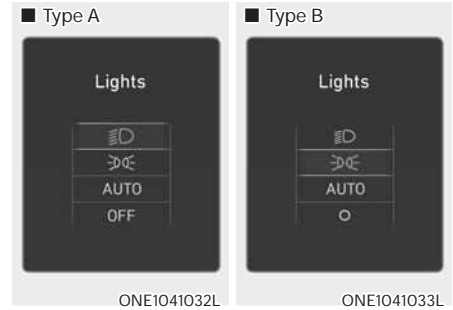
Low tire pressure



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



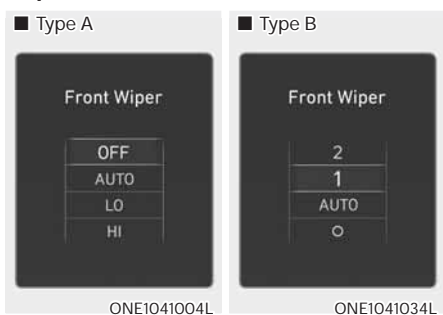
This indicator displays which exterior light is selected using the lighting control.

You can activate or deactivate Wiper/Lights display function from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Cluster
→ Content Selection → Wiper/Lights
Display

For detailed information, refer to the separately supplied infotainment system manual.

Wiper



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:

- Setup → Vehicle Settings → Cluster → Content Selection → Wiper/Lights Display

For detailed information, refer to the separately supplied 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 signal (if equipped)

This message is displayed if the turn signal lamps 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 headlamp LED (if equipped)

This message is displayed if there is a problem with the LED headlamp. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

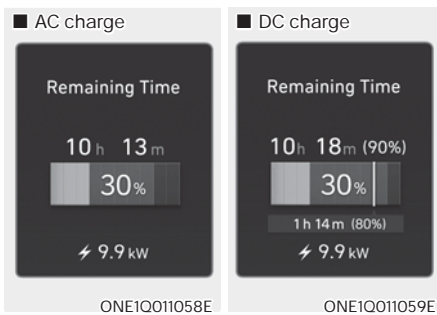
Shift to P to charge/Shift to P to start charging



This message is displayed if you connect the charging cable without the gear in the P (Park) position.

Shift to P (Park) before connecting the charging cable.

Remaining time



This message is displayed to notify the remaining time to charge the battery to the selected target battery charge level.

Unplug vehicle to start



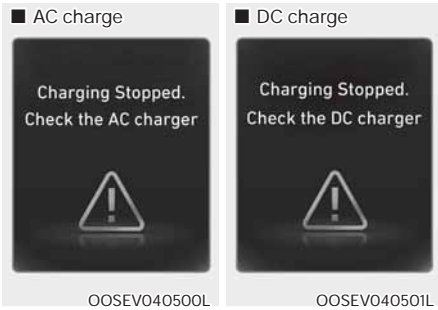
This message is displayed when you start the vehicle without unplugging the charging cable. Unplug the charging cable, and then turn on the vehicle.

Charging door open



This message is displayed when the vehicle is driven with the charging door opened. Close the charging door and then start driving.

Charging stopped. 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 charging
 - The charging cable is damaged

In this case, check whether there is any problem with the external AC or DC charger and charging cable.

If the same problem occurs when charging the vehicle with a normally operating AC charger or genuine HYUNDAI portable charger, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

Charging stopped. Check the cable connection



This warning message is displayed when charging is stopped because the charging connector is not correctly connected to the charging inlet

In this case, separate the charging connector and re-connect it and check whether there is any problem (external damage, foreign substances, etc.) with the charging connector and charging inlet.

If the same problem occurs when charging the vehicle with a replaced charging cable or genuine HYUNDAI portable charger, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

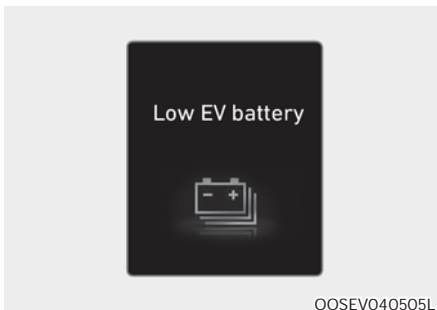
Check regenerative brakes



These warning messages are displayed when the regenerative brake system does not work properly.

In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Low EV battery



When the high voltage battery level reaches below approximately 10 %, this warning message is displayed.

The warning light on the instrument cluster (⚡) will turn ON simultaneously. Charge the high voltage battery immediately.

Charge immediately. Power limited

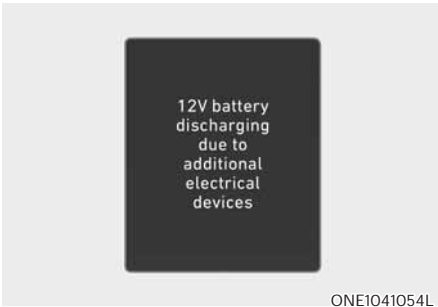


When the high voltage battery level reaches below approximately 5 %, this warning message is displayed.

The warning light on the instrument cluster (⚡) will turn on simultaneously.

The vehicle's power will be reduced to minimize the energy consumption of the high voltage battery. Charge the battery immediately.

12V battery discharging due to additional electrical devices

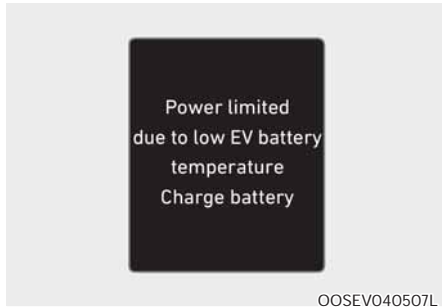


This warning message is displayed when a battery discharge due to excessive current is detected by mounting an unauthorized electrical device such as a black box.

Be careful as it may cause battery discharge problems.

If the warning message is not disappeared after the external electrical device is removed, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Power limited due to low EV battery temperature. Charge battery



Both warning messages are displayed to protect electric vehicle system when outside temperature is low. If the high voltage battery charging level is low and parked outside in low temperature for a long time, vehicle power could be limited.

Charging the battery before driving helps increase power.

NOTICE

If these warning messages are still displayed even after the ambient temperature has increased, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

EV battery overheated! Stop vehicle

This warning message is displayed to protect battery and electric vehicle system when the high voltage battery temperature is too high.

Turn off the START/STOP button and stop the vehicle so that the battery temperature decreases.

Power limited

This warning message is displayed:

- When the START/STOP button is in the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- 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. (Unless both Service Warning Light and Power Down Indicator Light illuminate at the same time, it is not a failure.)
 - 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

- When this warning message is displayed, do not accelerate or start the vehicle suddenly.
- When the power is limited for the safety of the high-powered parts of an electric vehicle, the warning message is displayed. Your vehicle may not be driven, or may roll back on a slope with the warning message displayed due to the limitation of vehicle power.

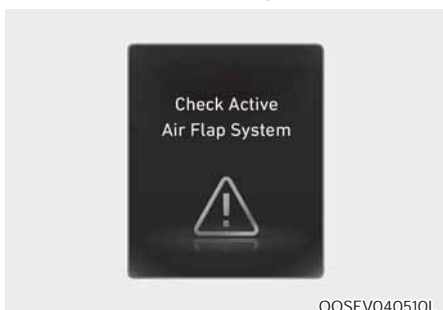
Stop vehicle and check power supply



This warning message is displayed when a failure occurs in the power supply system.

In this case, park the vehicle in a safe location and we recommend that you tow your vehicle to the nearest authorized HYUNDAI dealer and have the vehicle inspected.

Check active air flap system



This warning message is displayed 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 will disappear.

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.

Check electric vehicle system



This warning message is displayed when there is a problem with the electric vehicle control system.

Refrain from driving when the warning message is displayed.

In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

LCD DISPLAY

LCD display control



ONE1041018

The LCD display modes can be changed by using the control switches.

Switch	Operation	Function
	Press	MODE button for changing View modes
	Press	UP, DOWN switch for changing items in Utility view and Option menu
OK	Press	SELECT/RESET switch for entering Option menu
	Press and hold	SELECT/RESET switch for retrieving assist information or resetting the selected item

View modes

View modes	Explanation
Driving Assist	Driving Assist view displays the status of the vehicle's Driver Assistance systems.
Turn by Turn	Turn By Turn view displays the state of the navigation.
Utility	Utility view displays driving information such as the trip distance, electric energy economy and etc.

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



Driving Assist, Turn by Turn, Utility view modes are displayed in the center (A) of the instrument cluster.

Driving assist view



The status of Manual Speed Limit Assist, 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, distance/time to destination information is displayed when Turn by Turn view is selected.

Utility view

In the Utility view, using the \wedge , \vee (UP, DOWN) switch, you may change through items in the following order.

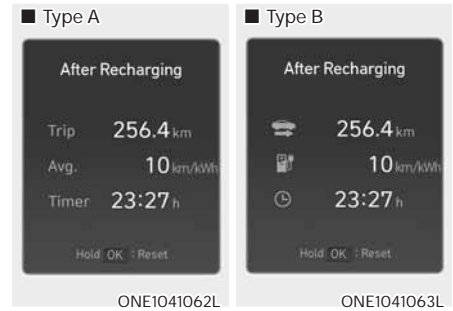


Drive info

Trip distance, average electric energy economy and total driving time are displayed.

The driver's door is opened after turning off the vehicle or the vehicle is turned on after 3 minutes have passed, the Drive Info screen will reset.

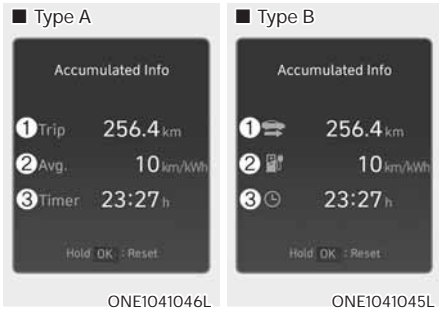
After Recharging



After Recharging

Trip distance, total driving time and average 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 recharging' is displayed.

Accumulated info



This display shows the accumulated trip distance (1), the average energy consumption (2), and the total driving time (3).

The information is accumulated starting from the last reset.

To manually reset the information, press and hold the OK button when viewing the Accumulated driving info. The trip distance, the average energy consumption, and total driving time will reset simultaneously.

The accumulated driving information will continue to be counted while the vehicle is in the ready (**READY**) mode (for example, when the vehicle is in traffic or stopped at a stop light).

Information

The vehicle must be driven for a minimum of 300 meters (0.19 miles) since the last ignition key cycle before the accumulated driving information is recalculated.

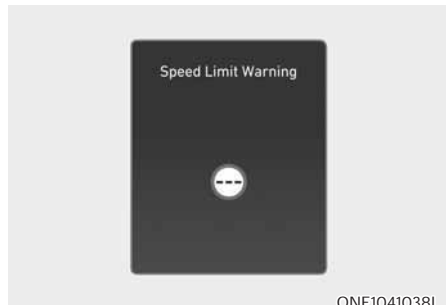


ONE1041059L

Attention level

The driver's attention level is shown based on the driver's driving pattern.

For more details, refer to "Driver Attention Warning (DAW)" section in chapter 7.



ONE1041038L

Speed limit warning (if equipped)

The driver can monitor the information provided from Intelligent Speed Limit Assist.

For more details, refer to "Intelligent Speed Limit Assist (ISLA)" section in chapter 7.



ONE1041010L

Tire pressure / Tyre pressure

The tire pressure of each tire is displayed.

For more details, refer to "Tire Pressure Monitoring System (TPMS)" section in chapter 8.



ONE1041011

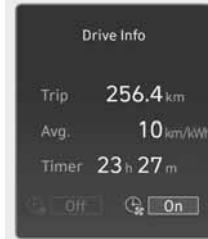
Energy flow / Driving force distribution (if equipped)

- 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 "Four Wheel Drive (4WD)" section in chapter 6.

Additional information display

■ Type A



ONE1041047L

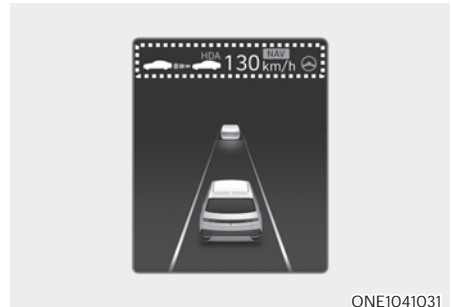
■ Type B



ONE1041048L

Drive info

Drive information is displayed for 4 seconds after the vehicle is turned off.



ONE1041031

Driving assist information

The current operation conditions of Manual Speed Limit Assist, Cruise Control, Smart Cruise Control, Lane Following Assist, Highway Driving Assist, etc., is displayed.

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

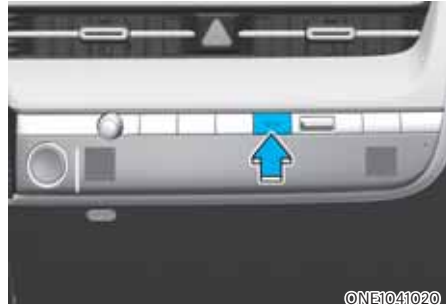
- Driver Assistance
- Drive Mode
- EV
- Head-Up Display
- Cluster
- Climate
- Seat
- Lights
- Door
- Convenience

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

WARNING

Do not operate the Vehicle Settings while driving. This may cause distraction resulting in an accident.

Setting your vehicle



1. Press the SETUP button on the main keyboard.
2. Select 'Vehicle' to change the Vehicle Settings.

Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

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ACCESSING YOUR VEHICLE

Smart key

■ Type A



■ Type B

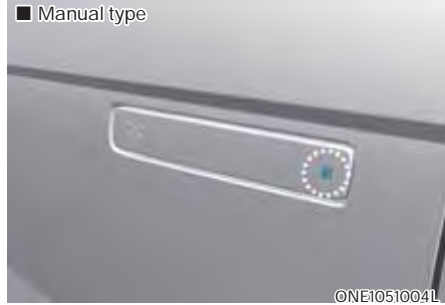


Your electric vehicle uses a Smart Key, which you can use to lock or unlock the driver and passenger doors, the charging door or the rear tailgate.

1. Door lock
2. Door unlock
3. Tailgate open/close
4. Charging door open/close
5. Remote Start
6. Forward
7. Backward

Locking your vehicle

■ 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.
3. 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 'Enable on Door Unlock' is selected from the Settings menu in the infotainment system screen. Select:
 - Setup → Vehicle Settings → Convenience → Welcome Mirror → Enable 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.

i Information

- To fold/unfold the rearview mirror simultaneously when the door is locked/unlocked, select ‘Settings → Vehicle → Convenience → Welcome Mirror → Enable on Door Unlock’ in the infotainment screen.
- The door handle button will only operate when the smart key is within 0.7~1 m (28~40 in.) from the outside door handle. Other people can also open the doors without the smart key in possession.
- After unlocking the doors, the doors will lock automatically after 30 seconds unless a door is opened.

For detailed information, refer to the separately supplied infotainment system manual.

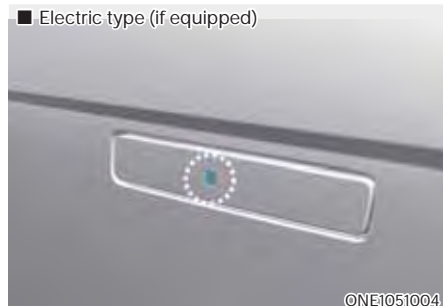
Unlocking your vehicle



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 doors 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.



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 'Enable on Door Unlock' is selected from the Settings menu in the infotainment system screen. Select:
 - Setup → Vehicle Settings → Convenience → Welcome Mirror → Enable 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.
- To prevent unintentional door lock or unlock:

Press the lock button on the smart key and immediately press the unlock button along with the lock button for more than 4 seconds. The hazard warning lights will blink four times. At this time, the doors will not lock or unlock even though the touch sensor is touched on the outside door handle.

To deactivate the function, press the door lock or unlock button on the smart key.
- 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

i Information - For India

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.

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.

Opening the tailgate

To open the tailgate:

1. Make sure you have the smart key in your possession.
2. Press the tailgate open/close button (3) on the vehicle or press and hold the Tailgate handle switch on the smart key for more than one second. The hazard warning lights will blink two times and the tailgate will open.

i Information

The tailgate open/close button will only operate when the smart key is within 0.7 m (28 in.) from the tailgate.

Remotely opening and closing the charging door

To open charging door remotely:

Press the Charging Door Open/Close button (4) for more than one second, or press the charging door open/close button in the vehicle while carrying the smart key.

To close the charging door:

Press the Charging Door Open/Close button (4) for more than a second while the door is open, or press the charging door open/close button in the vehicle while carrying the smart key when the charging door is opened.

Remotely initiating electricity charging

To remotely start charging the vehicle:

Press the charging door open/close button in the smart key while the charging connector is connected to the vehicle.

For more details, refer to “Charging Electric Vehicle” section in chapter 1.

Remotely starting vehicle

You can start the vehicle using the Remote Start button (5) on the smart key.

To start the vehicle remotely:

1. Press the door lock button on the smart key within 10 m (32 feet) from the vehicle.
2. Press the Remote Start button (5) for more than 2 seconds within 4 seconds after pressing the door lock button.
3. The vehicle will start.
4. To turn off the remote start function, press the Remote Start button (5) once.



Information

- **The vehicle must be in P (Park) for the remote start function to start.**
- **The vehicle turns off if you get on the vehicle without a registered smart key.**
- **The vehicle turns off if you do not get on the vehicle within 10 minutes after remotely starting the vehicle.**
- **The Remote Start button (5) may not operate if the smart key is not within 10 m (32 feet).**
- **The vehicle will not remotely start if the vehicle hood or tailgate is opened.**

Remotely moving vehicle forward or backward (if equipped)

With the smart key, the driver can move the vehicle forward or backward using the Forward or Backward button (6, 7) on the smart key.

For more details, refer to “Remote Smart Parking Assist (RSPA)” section in chapter 7.

Start-up

You can start the vehicle without inserting the key.

For more details, refer to the “Start/Stop Button” section in chapter 6.

***i* Information**

If the smart key is not moved for some time, the detection function for smart key operation will pause. Lift the smart key to activate the detection again.

NOTICE

To prevent damaging the smart key:

- **Keep the smart key in a cool, dry place to avoid damage or malfunction. Exposure to moisture or high temperature may cause the internal circuit of the smart key to malfunction which may not be covered under warranty.**
- **Avoid dropping or throwing the smart key.**
- **Protect the smart key from extreme temperatures.**

Mechanical key

If the Smart Key does not operate normally, you can lock or unlock the driver’s door by using the mechanical key.

To remove the mechanical key from the smart key FOB:



1. Press the mechanical key and remove it from the smart key FOB.
2. Move the release lever in the direction of the arrow (1) and then remove the mechanical key (2). Insert the mechanical key into the key hole on the door.

To reinstall the mechanical key, put the key into the hole and push it until a click sound is heard.

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 mobile two way radio system or a mobile phone.
- Another vehicle's smart key is being operated close to your vehicle.

If the smart key does not work correctly, open and close the door with the mechanical key. If you have a problem with the smart key, it is recommended to contact an authorized HYUNDAI dealer.

If the smart key is in close proximity to your mobile phone, the signal could be blocked by your mobile 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 mobile phone in the same location such as a pants or jacket pocket in order to avoid interference between the two devices.

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.**

Battery replacement

If the Smart Key is not working properly, try replacing the battery with a new one.

Battery Type: CR2032

To replace the battery:



If the Smart Key is not working properly, try replacing the battery with a new one.



ODN8059266

Battery Type: CR2032

To replace the battery:

1. Remove the mechanical key.
2. Use a slim tool to pry open the rear cover of the smart key.
3. Remove the old battery and insert the new battery. Make sure the battery position is correct.
4. 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, it is 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.



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.

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 press the Start/Stop button to the ON position again.

In some circumstances, the vehicle may not recognize your smart key if another smart key device is nearby or a metal object such as a key chain is causing interference with the smart key.

If this occurs, your vehicle may not start. Remove any metal objects or additional keys near the smart key before attempting to start the vehicle again.

If the system repeatedly does not recognize the coding of the key, it is recommended 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.

Disclaimer:

The system is designed in such a way that it makes vehicle theft difficult if its circuit and battery connection is uninterrupted.



WARNING

In order 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.

Disclaimer:

The system is designed in such a way that it makes vehicle theft difficult if its circuit and battery connection is uninterrupted.

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

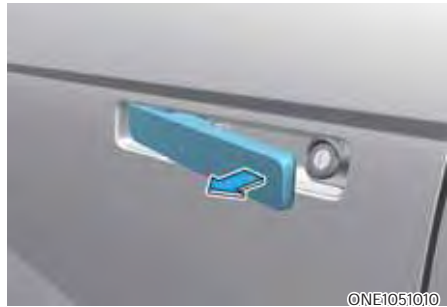
Approach unlock system

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 for only the driver's seat, select 'Settings → Vehicle → Door → Remote power door open → Unlock all doors' in the infotainment system 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.

Push the door to close.

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 the key to the lock position.
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.

Deadlocks (if equipped)

Some vehicles are equipped with a deadlock system. Deadlocks prevent opening of a door from either inside or outside the vehicle once the deadlocks have been activated providing an additional measure of vehicle security.

To lock the vehicle using the deadlock function, the doors must be locked by using the smart key. To unlock the vehicle, the smart key must be used again.

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.

**Information**

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Additional unlock safety feature air bag deployment

As an additional safety feature, all doors will be automatically unlocked when an impact causes the air bags 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

Child safety lock failure



ONE1051205L

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.

Vehicle Auto-Shut Off Function

If you forget to turn off the vehicle that EV Drivable for a period of time, Vehicle Shuts Off automatically to prevent waste electric power.

Operating Conditions

Vehicle Auto-Shut Off timer activates when the following conditions are met

- Not Auto-Shut Off timer reset condition
 - Vehicle is not EV ready state (Only Ignition On) or the utility mode on
 - Gear Shift Other than P
 - Stepped on the brake pedal of the accelerator pedal
 - Fastened driver's seat belt and passenger's seat belt
 - Passenger's seat is occupied
 - The vehicle moves (vehicle speed is above 2 mph (3 km/h))
 - When Auto-Shut Off timer is left 10 minutes, the user setting mode pops up in the instrument cluster. And you can check the time left. If you push the 'OK' button, Auto-Shut off timer is reset.



- Head unit is not updating
- Outside of vehicle charging connector engaged or outside V2L used
- If you want to deactivate auto-shut off function during inside V2L, use the Utility mode

System Operation

If the system is satisfied operating conditions after 90 minutes, vehicle shut off automatically.

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**

Disclaimer:

The system is designed in such a way that it makes vehicle theft difficult if its circuit and battery connection is uninterrupted.

ADVANCED REAR OCCUPANT ALERT (ROA) (IF EQUIPPED)

Advanced Rear Occupant Alert is provided to prevent a driver from leaving a vehicle with the rear passenger left in the vehicle.

System setting

To use Rear Occupant Alert, it must be enabled from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Convenience → Rear Occupant Alert (ROA)

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

System operation

- First alert
When you turn off the vehicle and open the driver's door after opening and closing the rear door or tailgate, the 'Check rear seats' warning message appears on the cluster.
- Second alert (if the sensor is equipped)
After the first alert, the second alert operates when any movement is detected in the vehicle after the driver's door is closed and all the doors are locked. The hazard warning lights will blink and 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.
- The second alert activates only when the sensor is equipped in the vehicle.



If you do not want to use Rear Occupant Alert, press the OK button on the steering wheel when the first alert is displayed on the cluster. Doing so will deactivate the second alert one time.

- If the vehicle is started remotely (if equipped with Remote Start), inside movement detection will stop.

System precautions



- 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 alert may operate if movement in the driver or passenger seat is detected.
- If the doors are locked with a passenger inside the vehicle, the alert may operate.
- An alert can occur if there is an impact on the vehicle.
- If boxes or objects are stacked in the vehicle, the system may not detect the boxes or objects. Or, the alert may operate if the boxes or objects fall off.
- The alert may operate if movement in the driver or passenger seat is detected.
- The alert may operate with the doors locked due to car wash or surrounding vibration or noise.
- The alert may operate when there are metallic or liquid objects in the vehicle.



WARNING

Even if your vehicle is equipped with Advanced Rear Occupant Alert (ROA), always make sure to check the rear seat before you leave the vehicle.

Advanced Rear Occupant Alert (ROA) 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.
- Movement is detected in areas other than the rear seats.
- The rear 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 or luggage compartment 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.

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) : display mode, position, AR matching adjustment (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.

i 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.



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 movement switch over 2 seconds simultaneously.

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 and steering wheel 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
Setup → Vehicle Settings → Seat → Seating Easy Access → Driver Seat Easy Access → Normal/Extended/Off

 **Information**

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

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


Electric Power Steering (EPS)

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 Electric 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.



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 EPS 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 EPS 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 EPS, the steering effort assist function will not be activated in order to prevent fatal accidents. 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.

Horn



ONE1051025

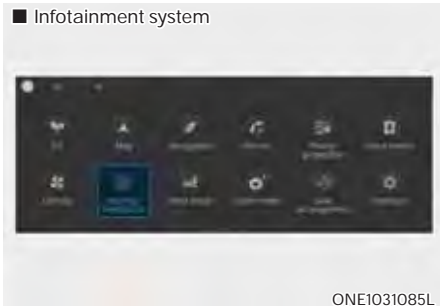
To sound the horn, press the area indicated by the horn symbol on your steering wheel (see illustration). The horn will operate only when this area is pressed.

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.

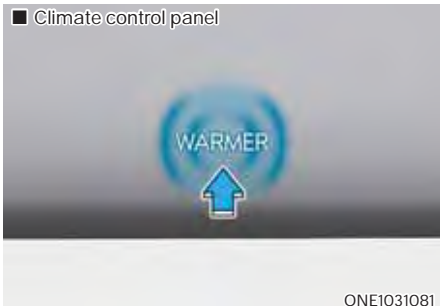
Heated steering wheel (if equipped)

■ Infotainment system

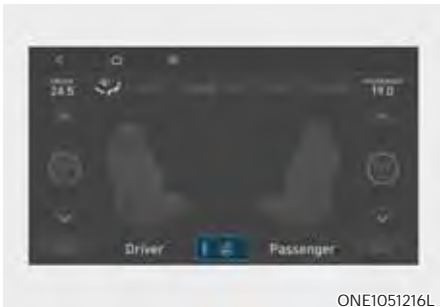


While the vehicle is running, touch Heating/Ventilation icon in the infotainment home screen.

■ Climate control panel



Press WARMER in the front climate control panel.



While the vehicle is running, touch the heated steering wheel icon to warm the steering wheel.

- To warm the steering wheel, touch the heated steering wheel icon in the Heating/Ventilation seats.
- Auto. Controls That Use Climate Control Settings (for driver's seat)

The heated steering wheel automatically controls the steering wheel temperature depending on the ambient temperature when the vehicle is running.

To use this function, it must be enabled from the Settings menu in the infotainment system screen.

Select:

- Setup → Vehicle Settings → Seat → Heated/Ventilated Features → Auto. Controls That Use Climate Control Settings → Heated steering wheel

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

- The heated steering wheel defaults to the OFF position whenever the Start/Stop button is pressed to the ON position. However, if the Auto. Controls That Use Climate Control Settings function is ON, the heated steering wheel will turn on and off depending on the outside temperature.

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.

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 air bag, 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)**



ONE1051226

[A] : Indicator

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 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.

Outside rearview mirrors



ONE1051027

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:

1. When the START/STOP button is in the ACC, ON or START position, press either the L (Left side) or R (Right side) button (1) to select the rearview mirror you would like to adjust.
2. Use the mirror adjustment control switch (2) to position the selected mirror up, down, left or right.
3. 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 'Setup → Vehicle Settings → Welcome Mirror → Enable on Door Unlock' is selected from the Settings menu in the infotainment system screen,
 - 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 the touch sensor or button on the outside door handle.

- Enable on driver approach
If 'Setup → Vehicle Settings → Convenience → Welcome Mirror → Enable 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 manual provided in the infotainment system and the quick reference guide.

i Information

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

The electric type outside rearview mirror operates even though the Start/Stop button is in the OFF position. However, to prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary while 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 switch 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) button is pressed, both outside rearview mirror angle will move downward to the basic set position.
3. Press either L or R button 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 buttons to the neutral position (L and R buttons are not pressed).
5. Set the other outside rearview mirror following the above procedure 1 to 4.

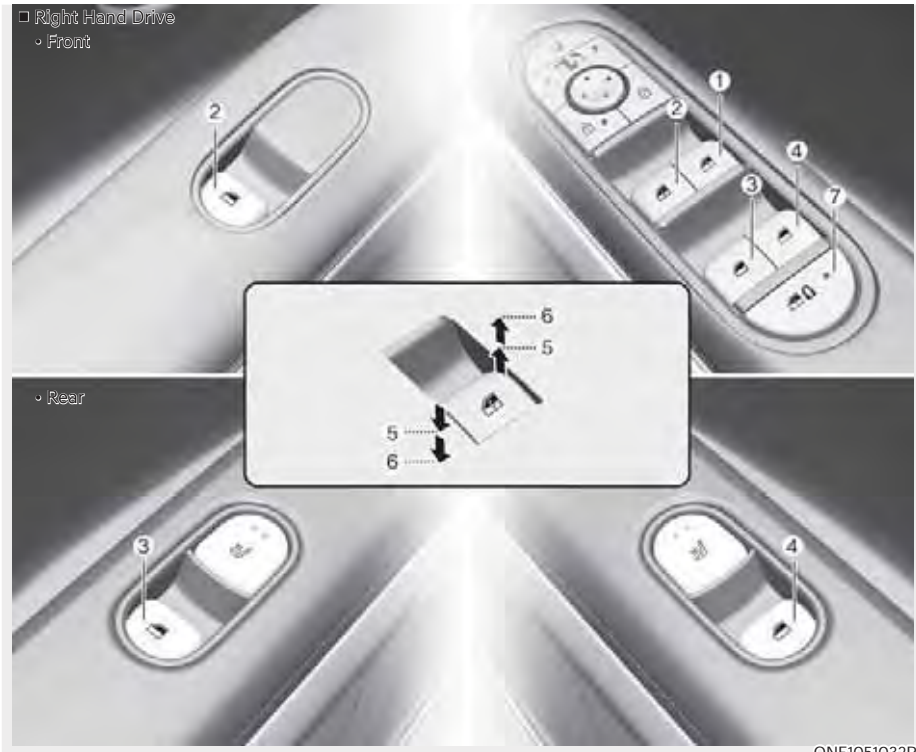
Resetting reverse parking aid user settings mode

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.

WINDOWS

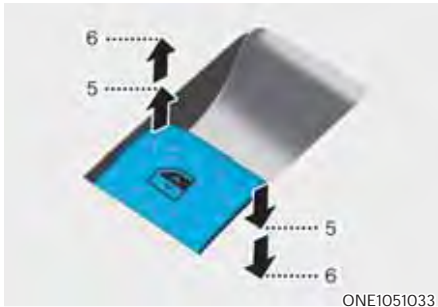


- (1) Driver's door power window switch
- (2) Front passenger's door power window switch
- (3) Rear door (left) power window switch
- (4) Rear door (right) power window switch
- (5) Window opening and closing
- (6) Automatic power window
- (7) Power window lock switch

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:

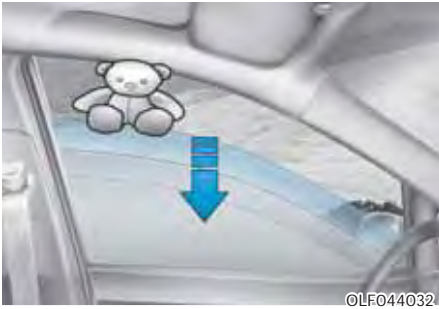
1. Press the Start/Stop button to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

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.

⚠ 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:

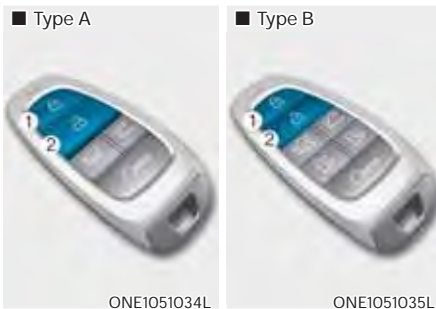
- The rear passenger control will not be able to operate the rear passenger power window.
- Note that the front passenger control is still able to operate the front passenger window, and that the driver master control can still operate all the power windows.

**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.

**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.

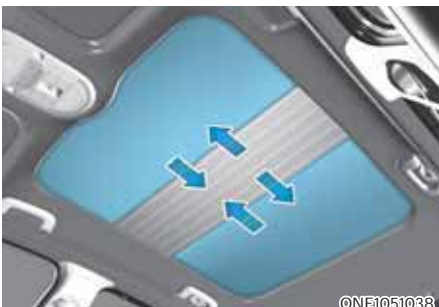
VISION ROOF (IF EQUIPPED)



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-volt 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.

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.

EXTERIOR FEATURES

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. 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.
- Always double check to be 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 opened may cause a total loss of visibility, which might result in an accident.
- Do not move the vehicle with the hood in the raised position, as vision is obstructed, which might result in an accident, and the hood could fall or be damaged.

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 (55lbs)
- 4WD : 10kg (25lbs)

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 (If equipped)

Power tailgate operating conditions

The power tailgate operates when the gear is in P (Park) with the vehicle running. However, the power tailgate will operate regardless of the gear position when the vehicle is off. Also, the tailgate can be opened only when vehicle speed is below 3 km/h (1.8 mph).

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.**

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. This must be done by 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.

Information

- If the tailgate is not fully closed and vehicle speed is at or above 3 km/h (1.8 mph), a warning will sound 10 times. Immediately park the vehicle at a safe place, close the tailgate, and check that the tailgate open warning on the instrument cluster is turned off.
- 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.
- Operating the power tailgate more than 5 times continuously could cause damage to the operating motor. If this occurs, the power tailgate will not operate to prevent the motor from overheating. If any of the power tailgate buttons are pressed to try to open the tailgate, the chime will sound 3 times, but the tailgate will remain closed. Allow the power tailgate system to cool for about 1 minute before operating the system again.

Operating the power tailgate

■ Type A



ONE1051043L

■ Type B



ONE1051044L



ONE1051045

Power tailgate open/close button (Smart key, Instrument panel)

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 (approximately 10 m (394 in.)) from the vehicle, power tailgate operation will stop with a warning sound for 5 seconds.



ONE1051046L

Power tailgate open/close button (Outside the power tailgate)

When the tailgate is closed, press the power tailgate open/close button (1) to open the tailgate.

If the vehicle is locked, press the power tailgate open/close button (1) 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 (1) is pressed without carrying the smart key.



ONE1051047

Power tailgate open/close button (Inside the power tailgate)

Press the power tailgate open/close button. The tailgate opens or closes with a warning sound.

Automatic reverse

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 speed, select 'Setup → Vehicle Settings → Door/Tailgate → Power Tailgate Opening Speed → Fast/Slow' in the infotainment system. (Default setting is 'Fast'.)

Power tailgate opening height

To adjust the power tailgate opening height, select 'Setup → Vehicle Settings → Door/Tailgate → Power Tailgate Opening Height → Full Open/Level 3/Level 2/Level 1/User Height Setting' in the infotainment system.



Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

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' from the infotainment system is selected.
- If one of the height setting (Full Open/Level 3/Level 2/Level 1) is selected from the settings menu in the infotainment system, and then 'User Height Setting' is selected, the tailgate will open 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 will 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-volt battery is recharged
- When the 12-volt 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 button 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.**
- **No one, including animals, should be allowed to occupy the luggage compartment of the vehicle at any time. The luggage compartment is a very dangerous location in the event of an accident.**
- **Use the release latch for emergencies only. Use extreme caution, especially while the vehicle is in motion.**

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.

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:

- Setup → Vehicle Settings → Door/Tailgate → Smart Tailgate

Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

2. Detect and Alert

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 to alert you that the smart tailgate will open.

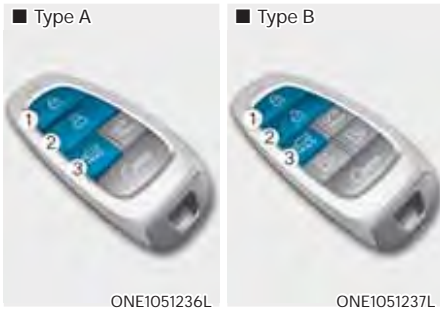
Information

Do not approach the detecting area if you do not want the tailgate to open. If you have unintentionally entered the detecting area and the hazard warning lights and chime starts to operate, move away from the area behind the vehicle with the smart key. The tailgate will remain closed.

3. Automatic opening

After the hazard warning lights blink and the chime sounds 6 times, the smart tailgate will open.

Deactivating smart tailgate



1. Door lock
2. Door unlock
3. Tailgate open/close

If you press any button on the smart key during the Detect and Alert stage, the smart tailgate will be deactivated.

Make sure to be aware of how to deactivate the smart tailgate for emergency situations.

- If you press the door unlock button (2), the smart tailgate will be deactivated temporarily. But, if you do not open any door for 30 seconds, the smart tailgate will be activated again.
- If you press the tailgate open button (3) for more than 1 second, the tailgate opens.
- The smart tailgate will still be activated if you press the door lock button (1) or tailgate open/close button (3) on the smart key as long as the smart tailgate is not already in the Detect and Alert stage.
- In case you have deactivated the smart tailgate by pressing the smart key button and opened a door, the smart tailgate can be activated again by closing and locking all doors.

Detecting area

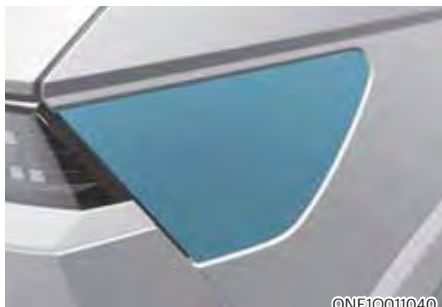


- The smart tailgate detecting area extends approximately 50-100 cm (20-40 in.) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights will blink and the chime will sound for about 3 seconds to alert you that the tailgate will open.
- 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 mobile two way radio system or a mobile phone.**
 - **Another vehicle's smart key is being operated close to your vehicle.**
- **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/close
- Push the Close button located inner part of the charging door
- Press the charging door button in the smart key
- Use the Voice Recognition

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.
- After closing the charging door, push the door again to ensure that the charging door is completely closed.
- 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 closed the charging door, be sure to check 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 from being hit or stuck to the charging door.
- Do not hold the hinge to prevent damaging the charging door and causing other accidents.



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 volt), open and close the charging door once to check that the charging door automatic opening mechanism is functioning properly.

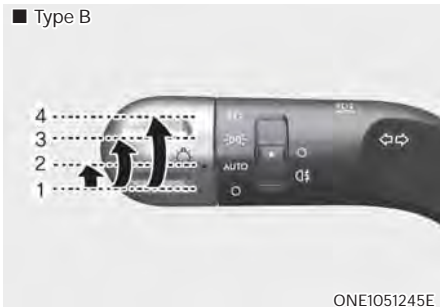
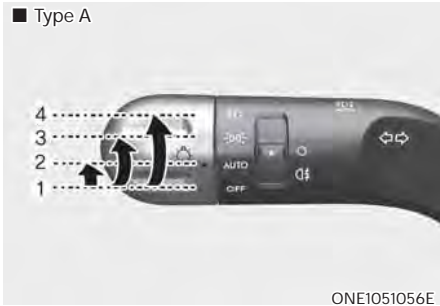
For more details, refer to “Charging Electric Vehicle” section in chapter 2.

LIGHTING

Exterior lights

Lighting control

To operate the lights, turn the knob at the end of the control lever to one of the following positions:



1. OFF
2. AUTO headlamp
3. Position lamp
4. Headlamp

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 headlamps are ON.
- The parking brake is applied.
- The vehicle is turned off.



AUTO headlamp

The position lamp and headlamp will be turned ON or OFF automatically depending on the amount of daylight as measured by the ambient light sensor (1) at the upper end of the windshield glass.

Even with the AUTO headlamp feature in operation, it is recommended to manually turn ON the headlamps 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 headlamp system may not work properly.

**Position lamp** (≡☞)

The position lamp, license plate lamp and instrument panel lamp are turned ON.

**Headlamp** (≡☞)

The headlamp, position lamp, license plate lamp and instrument panel lamp are turned ON.

i Information

The Start/Stop button must be in the ON position to turn on the headlamp.

High beam operation



To turn on the high beam headlamp, push the lever away from you. The lever will return to its original position.

The high beam indicator will light when the headlamp high beams are switched on.

To turn off the high beam headlamp, pull the lever towards you. The low beams will turn on.



To flash the high beam headlamp, 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 'Setup → Vehicle Settings → Lights → One Touch Turn Signal (or One-touch indicator) → 3 flashes/5 flashes/7 flashes/Off' in the infotainment system screen.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Rear fog lamp (if equipped)



To turn on the rear fog lamp:

Position the headlamp switch in the headlamp position, and then turn the headlamp switch (1) to the rear fog lamp position.

To turn the rear fog lamps off, do one of the following:

- Turn off the headlamp switch.
- Turn the headlamp switch to the rear fog lamp position again.

Battery saver function

The purpose of this feature is to prevent the battery from being discharged. The system automatically turns off the position lamp when the driver turns the vehicle off and opens the driver-side door.

With this feature, the position lamps will turn off automatically if the driver parks on the side of road at night.

However, the position lamps stay ON even when the driver-side door is opened if the light headlamp switch is turned to the position lamp or AUTO (if equipped) position after the vehicle is turned off.

If necessary, to keep the lamps on turn the position lamps OFF and ON again using the headlamp switch on the steering column after the vehicle is turned off.

Headlamp delay function

If the Start/Stop button is in the ACC position or the OFF position with the headlamps ON, the headlamps (and/or position lamps) remain on for about 5 minutes. However, if the driver's door is opened and closed, the headlamps are turned off after 15 seconds. Also, with the vehicle off if the driver's door is opened and closed, the headlamps (and/or position lamps) are turned off after 15 seconds.

The headlamps (and/or position lamps) can be turned off by pressing the lock button on the smart key twice or turning the headlamp switch to the OFF or AUTO position.

You can enable the headlamp delay function by selecting 'Setup → Vehicle Settings → Lights → Headlight Delay (or Headlight time-out)' in the infotainment system screen.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

NOTICE

If the driver exits the vehicle through another door besides the driver door, the battery saver function does not operate and the headlamp delay function does not turn OFF automatically.

This may cause the battery to discharge. To avoid battery discharge, turn OFF the headlamps manually from the headlamp switch before exiting the vehicle.

Headlamp leveling device



Manual type

To adjust the headlamp 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 headlamp beam level. Always keep the headlight beam at the proper leveling position, or headlamps 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.

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 or the battery will discharge.

Interior lamp AUTO cut

The interior lamps will automatically go off approximately 20 minutes after the vehicle is turned off and the doors are closed. If a door is opened, the lamp will 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 lamps will go off five seconds later.

Front lamps



Front map lamp (☰ ☱):

Touch either icons to turn the map lamp on or off. 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.

Door lamp (☰):

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 approximately 30 seconds as long as any door is not opened. The front and rear room lamps go out gradually after approximately 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 will turn off. If a door is opened with the Start/Stop button in the ACC position or the OFF position, the front and rear lamps will stay on for about 5 minutes.

Room lamp (☰)

Press the button to turn ON the room lamp for the front/rear seats.

Mood lamp (☺) (if equipped)

Press the button to turn On the mood lamp. Press again to turn the lamp off.

Rear lamps

■ Room lamp (without vision/solar roof)



■ Personal lamp (with vision/solar roof)





- ☰ (Room lamp) / ☺ (Personal lamp):
Press the button to turn the lamp on or off.

Vanity mirror lamp



Push the switch to turn the light on or off.

-  :
The lamp will turn on if this button is pressed.
-  :
The lamp will turn 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.

Door mood lamp



- Door mood lamp
To set the brightness and the color of the door mood lamp, select 'Setup → Vehicle Settings → Lights → Interior mood lamp'
- When driving at night or under low light driving conditions, the sensors detect the light level around the vehicle and automatically adjust the brightness of the mood lamp.
To set the automatic brightness adjustment turn On/Off, select 'Setup → Vehicle Settings → Lights → Interior Mood Lamp → Brightness control'
- There are different colors for different drive modes.
To set the colors for the different drive modes, select 'Setup → Vehicle Settings → Lights → Interior Mood Lamp → Colors for the drive modes'
- The color of the mood lamp turns red when the vehicle speed exceeds the speed limit in the speed control section.
To set the color change function, select 'Setup → Vehicle Settings → Lights → Interior Mood Lamp → Speed limit warning'

Luggage compartment lamp



The lamp turns on when the tailgate is opened.

Headlamp and position lamp


When the light switch is ON, and all the doors (and tailgate) are closed and locked, the headlamp and position lamp will turn on for approximately 15 seconds if the door unlock button is pressed on the smart key.

Select 'Setup → Lights → Headlight Delay' from the Settings menu to turn on this function.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Interior lamp

When the interior lamp switch is in the  position and all doors (and tailgate) are closed and locked, the room lamp will come on for 30 seconds if any of the below is performed.

- When the door unlock button is pressed on the smart key.
- When you touch the touch sensor on the door handle while carrying the smart key.

At this time, if you press the door lock or unlock button on the smart key the lamps will turn off immediately.

HIGH BEAM ASSIST (HBA) (IF EQUIPPED)



ONE1051064

High Beam Assist will automatically adjust the headlamp range (switches between high beam and low beam) depending on the brightness of detected vehicles and certain road conditions.

Detecting sensor



ONE1071262

[1] : front view camera

The front view camera is used as a detecting sensor to detect ambient light and brightness while driving.

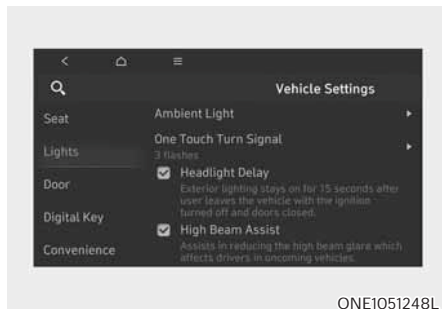
Refer to the picture above for the detailed location of the detecting sensor.

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



ONE1051248L

With the Start/Stop button in the ON position, select ‘Lights → High Beam Assist (or HBA (High Beam Assist))’ from the Settings menu to turn on High Beam Assist and deselect to turn off the function.

WARNING

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

High Beam Assist operation

Display and control

- After selecting 'High Beam Assist' in the Settings menu, High Beam Assist will operate by following the procedure below.
 - Place the headlamp switch in the AUTO position and push the headlamp lever towards the instrument cluster. The High Beam Assist (AUTO) indicator light will illuminate on the cluster and High Beam Assist will be enabled.
 - When High Beam Assist is enabled, high beam will turn on when vehicle speed is above 40 km/h (25 mph). When vehicle speed is below 25 km/h (15 mph), high beam will not turn on.
 - The High Beam (HBA) indicator light will illuminate on the cluster when high beam is on.
- When High Beam Assist is operating, if the headlamp lever or switch is used, High Beam Assist operates as follow:
 - If the headlamp lever is pulled towards you when the high beam is off, the high beam will turn on without High Beam Assist canceled. When you let go of the headlamp lever, the lever will move to the middle and the high beam will turn off.
 - If the headlamp lever is pulled towards you when the high beam is on by High Beam Assist, low beam will be on and the function will turn off.
 - If the headlamp switch is placed from AUTO to another position (headlamp/position/off), High Beam Assist will turn off and the corresponding lamp will turn on.

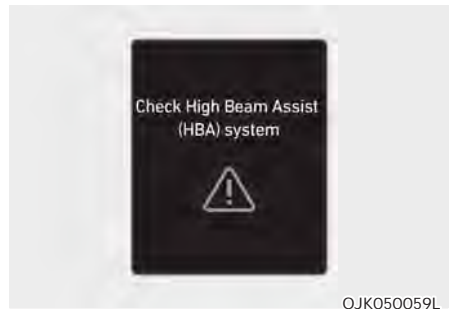
- When High Beam Assist is operating, high beam switches to low beam if any of the following conditions occur:
 - When the headlamp of an oncoming vehicle is detected.
 - When the tail lamp of a vehicle in front is detected.
 - When the headlamp or tail lamp of a motorcycle or a bicycle is detected.
 - When the surrounding ambient light is bright enough that high beams are not required.
 - When streetlights or other lights are detected.

Information


The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

High Beam Assist malfunction and limitations

High Beam Assist malfunction



OJK050059L

When High Beam Assist is not working properly, the 'Check High Beam Assist (HBA) system' warning message will appear and  warning light will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Limitations of High Beam Assist

High Beam Assist may not work properly in the following situations:

- Light from an oncoming or front vehicle is not detected because of lamp damage, or because it is hidden from sight, etc.
- Headlamp of an oncoming or front vehicle is covered with dust, snow or water.
- A front vehicle's headlamps are off but the fog lamps are on and etc.
- There is a lamp that has a similar shape as a vehicle's lamp.
- Headlamps have been damaged or not repaired properly.
- Headlamps are not aimed properly.
- Driving on a narrow curved road, rough road, uphill or downhill.
- Vehicle in front is partially visible on a crossroad or curved road.
- There is a traffic light, reflecting sign, flashing sign or mirror ahead.
- There is a temporary reflector or flash ahead (construction area).
- The road conditions are bad such as being wet, iced or covered with snow.
- A vehicle suddenly appears from a curve.
- The vehicle is tilted from a flat tire or is being towed.
- Light from an oncoming or front vehicle is not detected due to obstacles in the air such as exhaust fume, smoke, fog, snow, or water spray or blizzard on the road, or fogging in the lamp, etc.

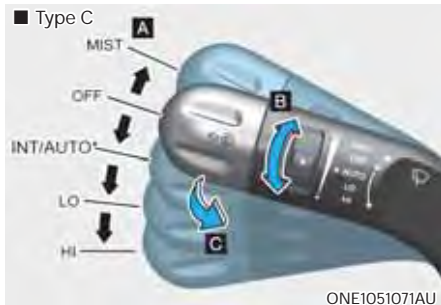
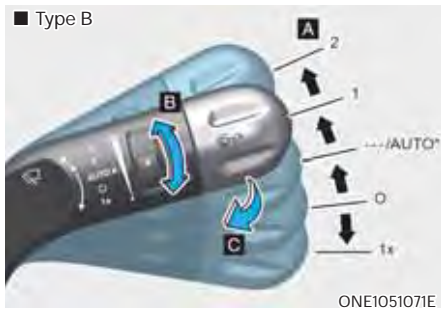
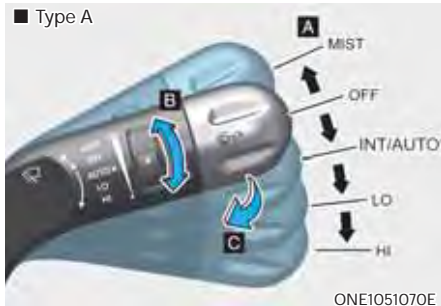
Information

For more details on the limitations of the Front View Camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

WARNING

- **At times, High Beam Assist may not work properly. High Beam Assist is for your convenience only. It is the responsibility of the driver for safe driving practices and always check the road conditions for your safety.**
- **When High Beam Assist does not operate normally, change the headlamp position manually between high beam and low beam.**

WIPERS AND WASHERS



A. Wiper speed control

- MIST / 1x – Single wipe
- OFF / O – Off
- INT / --- – Intermittent wipe
- AUTO* – Auto control wipe
- LO / 1 – Low wiper speed
- HI / 2 – High wiper speed

* : if equipped

B. Intermittent wipe time adjustment/ Auto control wipe time adjustment*

C. Wash with brief wipes

Front windshield wipers

Operates as follows when the Start/Stop button is in the ON position.

MIST (1x) : For a single wiping cycle, push the lever upward (or downward) and release. The wipers will operate continuously if the lever is held in this position.

OFF (O) : Wiper is not in operation.

INT (---) : Wiper operates intermittently at the same wiping intervals. To vary the speed setting, turn the speed control knob (B).

AUTO : 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.

LO (1) : The wiper runs at a lower speed.

HI (2) : The wiper runs at a higher speed.

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 before using the windshield wipers to ensure proper operation.

If you do not remove the snow and/or ice before using the wiper and washer, it may damage the wiper and washer system.

AUTO (Automatic) control



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 wiper operation time will be automatically controlled depends on rainfall.

When the rain stops, the wiper stops.

To vary the sensitivity setting, turn the sensitivity control knob.

If the wiper switch is set in AUTO mode when the Start/Stop button is in the ON position, the wiper will operate once to perform a self-check of the system. Set the wiper to the OFF (O) position when the wiper is not in use.

WARNING

To avoid personal injury from the windshield wipers, when the vehicle is running and the windshield wiper switch is placed in the AUTO mode:

- 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. The wiper may operate and be damaged if the switch is set in the AUTO mode while washing the vehicle.
- Do not remove the sensor cover located on the upper end of the passenger side windshield glass. Damage to system components could occur and may not be covered by your vehicle warranty.
- Because of using a photo sensor, temporary malfunction could occur according to sudden ambient light change made by stone and dust while driving.

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 will continue 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 details, 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.

NOTICE

- To prevent possible damage to the washer pump, do not operate the washer when the fluid reservoir is empty.
- To prevent possible damage to the wipers or windshield, do not operate the wipers when the windshield is dry.
- To prevent damage to the wiper arms and other components, do not attempt to move the wipers manually.
- To prevent possible damage to the wipers and washer system, use anti-freezing washer fluids in the winter season or cold weather.

AUTOMATIC CLIMATE CONTROL SYSTEM

■ Climate control panel



■ Infotainment System (Climate)



The actual shape may differ from the illustration.

ONE1051127L/ONE1051115L

- | | |
|-------------------------------------|-----------------------------------------------------|
| 1. Driver's temperature control | 10. Rear windshield defroster |
| 2. Passenger's temperature control | 11. Air intake control |
| 3. Display the air flow direction | 12. Driver only mode |
| 4. View climate infotainment screen | 13. A/C (air conditioning) ON/OFF |
| 5. AUTO (automatic control) | 14. Heating ON/OFF |
| 6. Mode selection button | 15. SYNC |
| 7. Fan speed up | 16. Ambient temperature display |
| 8. Fan speed down / OFF | 17. Seat warmer/air ventilation infotainment screen |
| 9. Front windshield defroster | |

Information

Use a clean soft microfiber cloth to gently wipe any finger prints off the touch screen.

Climate

■ Infotainment System



ONE1051249L

To view the climate information screen, select Climate in the main infotainment screen when the vehicle is ON.

■ Climate control panel



ONE1051111

Touch CLIMATE icon to view the climate information in the infotainment screen.

Automatic temperature control mode

■ Type A



ONE1051101

□ Type B



ONE1051116

Level	AUTO Indicator	Climate Information	Fan Speed level
3		HIGH	1~8
2		MEDIUM	1~6
1		LOW	1~4

1. Press AUTO icon or touch the AUTO icon in the infotainment screen to select the fan speed (level1~3)
2. Adjust the temperature with the temperature control icon.

The fan speed level only can be changed manually.

The following systems can be respectively adjusted while the AUTO climate control is On. When those systems are adjusted, AUTO indicator lights will turn off.

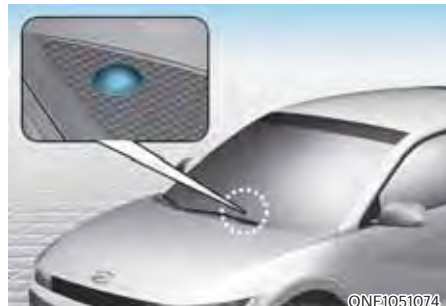
- Fan speed level
- A/C (Air condition)
- Mode selection
- Front windshield defroster (When defroster is turned off, AUTO indicator light will illuminate)

For your convenience and to improve the efficiency of the climate control, use the AUTO button and set the temperature to 22°C (72°F).

To change the temperature unit from °C to °F or °F to °C:

Select 'Setup → General Settings → Unit → Temperature Unit → °C/°F' from the Settings menu in the infotainment system screen.

i Information





Never place anything near the ambient light/solar sensor to ensure better control of the heating and cooling system.

Manual temperature control mode

The heating and cooling system can be controlled manually by selecting functions other than AUTO. In this case, the system works sequentially according to the order of the functions selected.

When selecting any other functions except AUTO while using automatic operation, the functions not selected will be controlled automatically.

1. Start the vehicle.
2. Set the mode to the desired position.
To improve the effectiveness of heating and cooling, select the mode according to the following:
 - Heating: 
 - Cooling: 
3. Set the temperature control to the desired position.
4. Set the air intake control to Fresh or Recirculation mode.
5. Set the fan speed control to the desired speed.
6. If air conditioning is desired, turn the air conditioning system on.
7. Select AUTO to revert back to full automatic control of the system.

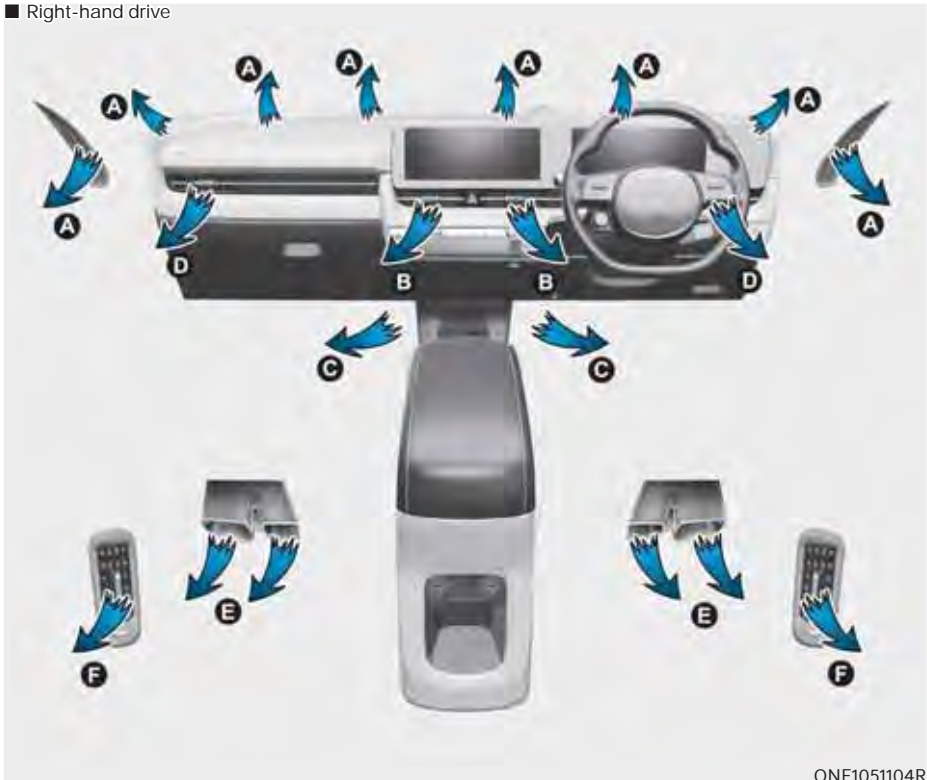
Mode selection



Air flow direction

Touch the air flow direction icon (1) or (2) in the infotainment screen to select the desired air flow direction. The selected air flow direction will be displayed on the infotainment screen.

■ Right-hand drive



Air flow direction

The mode selection Icon or button controls the direction of the air flow through the ventilation system.

**Face-Level (B, D, F)**

Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.

**Bi-Level (B, D, C, E, F)**

Air flow is directed towards the face and the floor.

**All Level (A, B, C, D, E, F)**

Air flow is directed toward the face, the floor and the windshield.

**Floor-Level (A, C, D, E)**

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.

**Floor/Defrost-Level (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.

**Defroster-Level (A, D)**

Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.

Front windshield defroster



Defrost-level (A, D)

Press the icon, and the indicator light will illuminate and the windshield defroster indicator will appear on the climate control panel.

Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.

When Defogging logic is enabled, Fresh mode is selected and air conditioning is selected according to outside temperature.

If the icon is pressed again, the indicator light will turn off and the previous settings will be selected.

Instrument panel vents



The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.

The air flow can also be CLOSED using the vent adjustment lever.

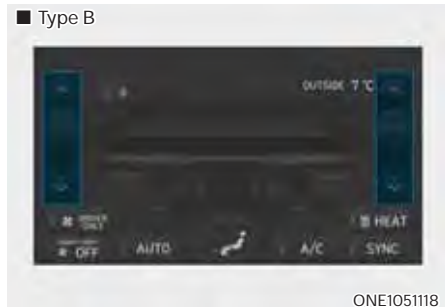
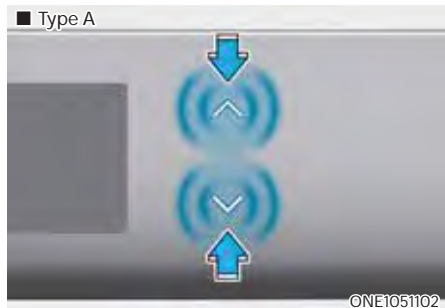
Front seat

- Move the lever away horizontally from the seat to close until the levers click and lock. Slightly move the lever toward the seating position to unlock and open.

Rear seat

- Move the lever downward to close the air flow. Move the lever upward to open. the air flow.

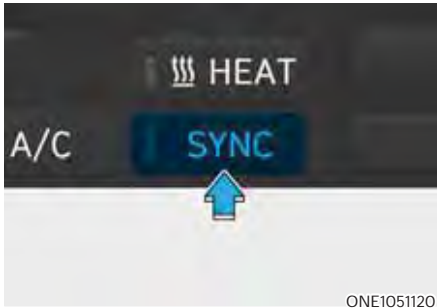
Temperature control



Touch the \wedge or \vee icon to select the temperature.

The temperature can be increased or decreased by increments of 0.5°C (1°F) for each incremental location. When set to the lowest temperature setting, the air conditioning will operate continuously to quickly cool the interior of the vehicle initially. After interior temperature has been cooled down sufficiently, select AUTO and set the temperature to 22 °C (72 °F).

SYNC



Adjusting the temperature and air flow direction equally

Press SYNC (indicator light ON), the passenger's temperature and air flow direction will be adjusted same as the driver's control.

Adjusting the temperature and air flow direction individually

Press SYNC (indicator light OFF), all seats temperature and air flow direction will be adjusted individually.

Air intake control



Air intake control is used to select either Fresh mode (outside air) or Recirculation mode (cabin air).

Recirculation mode



When Recirculation mode is selected, air from the passenger compartment will be recirculated through the system and heated or cooled according to the function selected.

Fresh mode



When Fresh mode is selected, air enters the vehicle from outside and is heated or cooled according to the function selected.

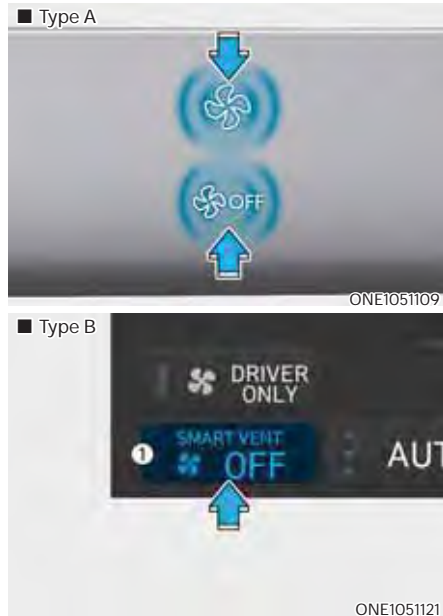
i Information

Operating the system primarily in Fresh mode is recommended. Use Recirculation mode temporarily only when needed. Prolonged operation of the heater in Recirculation mode and without the air conditioning ON can cause fogging of the windshield. In addition, prolonged use of the air conditioning ON in Recirculation mode may result in excessively dry, dehumidified air in the cabin and may promote formation of musty vent odor due to stagnant air.

! WARNING

- Continued use of the climate control system operation in Recirculation mode for a prolonged period of time may cause drowsiness to the occupants in the cabin. This may lead to loss of vehicle control which may lead to an accident.
- Continued use of the climate control system operation in Recirculation mode with the air conditioning OFF may allow humidity to increase inside the cabin. This may cause condensation to accumulate on the windshield and obscure visibility.
- Do not sleep in your vehicle or remain parked in your vehicle with the windows up and either the heater or the air conditioning ON for prolonged periods of time. Doing so may increase the levels of carbon dioxide in the cabin which may lead to serious injury or death.

Fan speed control



The fan speed can be set to the desired speed by adjusting the fan icon in the climate control panel.

More air is delivered with higher fan speeds.

Pressing the OFF icon or button turns off the fan.

You can check the fan speed and auto air circulation mode in the climate information screen icon (1) in the infotainment system.

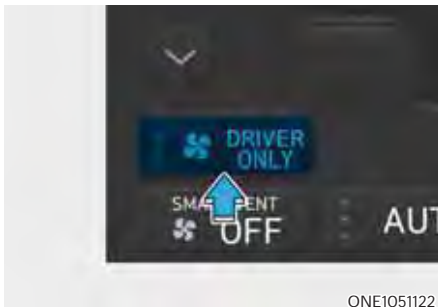
i Information

To help improve microphone voice input sound, fan speed may automatically slow down for a couple of minutes when you activate voice recognition or hands free.

NOTICE

Operating the fan when the Start/Stop button is in the OFF position could cause the battery to discharge. Operate the fan when the vehicle is running.

Driver only



If you touch the DRIVER ONLY icon (🚗^{DRIVER ONLY}) and the indicator light illuminates in the infotainment climate control screen, cold air mostly blows in the driver's seat. However, some of the cold air may come out of other seating position ducts to keep indoor air pleasant.

If you use the icon with no passenger in the front passenger seat, energy consumption will be reduced.

DRIVER ONLY icon will be turned off under the following conditions:

- 1) Defrost on
- 2) DRIVER ONLY button re-touch

Air conditioning



Touch the CLIMATE icon in the climate control panel. The climate information screen will appear on the infotainment screen. Touch the A/C icon in the infotainment screen to turn the air conditioning on (indicator light ON) and off.

HEAT icon



ONE1051124

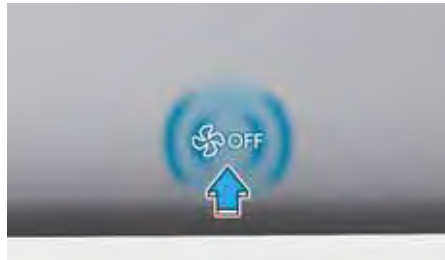
Touch CLIMATE icon in the climate control panel. The climate information screen will appear on the infotainment screen. Touch the HEAT icon in the infotainment screen to turn the heater on (indicator light will illuminate).

Touch the button again to turn the heater off.

The air conditioner and heater uses energy from the battery. If you use the heater or air conditioner for too long, distance to empty can be reduced due to too much power consumption.

Turn off the heater and air conditioner if you do not need them.

OFF mode



ONE1051110

Touch the OFF icon to turn the climate control system off. You can still operate mode selection and air intake control as long as the Start/Stop button is in the ON position.

System operation

Cooling / Ventilation

1. Select the Face Level (👤) mode in the infotainment screen.
2. Set the air intake control to fresh or recirculation mode.
3. Set the temperature to the desired position.
4. Set the fan speed to the desired speed.

Heating

1. Select the Floor Level (👤) mode in the infotainment screen.
2. Set the air intake control to fresh or recirculation mode.
3. Set the temperature to the desired position.
4. Set the fan speed 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, select the Front Defrost (🌬️) mode.

Operation Tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculation mode. Return the control to the Recirculation mode to the Fresh mode when the unpleasant air outside has diminished. This will help keep the driver alert and comfortable.
- To help prevent the inside of the windshield from fogging, set the air intake control to fresh mode 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. Touch the [CLIMATE] icon to display climate information the infotainment screen.
2. Select A/C icon (indicator light ON) in the climate information screen to activate the air-condition.
3. Set the temperature low.
4. Set the direction of air flow by touching the mode selection icon.
5. Touch the HEAT icon (indicator light OFF) to turn on the air-condition.

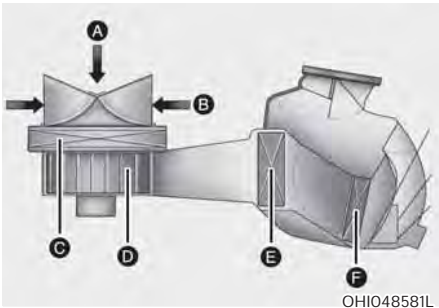
When maximum cooling is desired, set the temperature to the lowest position, then set the fan speed control to the highest setting.

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 recirculation mode to fresh mode.
- 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 and vision roof (or solar roof) 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 could 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 Climate control 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, more frequent cabin air filter inspections and changes are required.

If the air flow rate suddenly decreases, we recommend that the system be inspected at 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-134a



Since the refrigerant is operated at very high pressure, the air conditioning system should only be serviced by trained and certified technicians.

All refrigerants should be reclaimed with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.



WARNING

Vehicles equipped with R-1234yf



Since the refrigerant is mildly flammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant are used.

All refrigerants should be reclaimed with proper equipment.

Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.

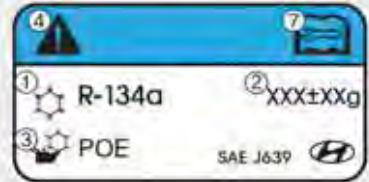


Air Conditioning refrigerant label

You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the hood.

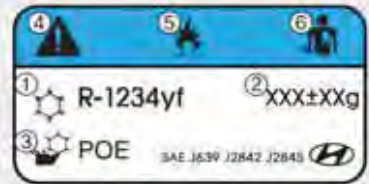
■ Example

- Type A



OHYK059003

- Type B



OHYK059002

Each symbol and specification on the air conditioning refrigerant label is represented as below:



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

WINDSHIELD DEFROSTING AND DEFOGGING



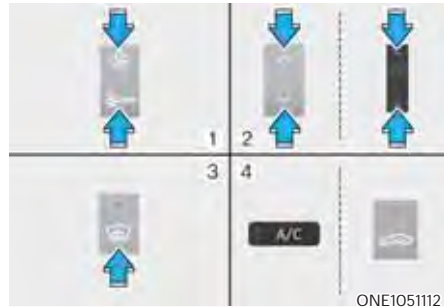
WARNING


Windshield heating

Do not use the  position during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up, causing loss of visibility could cause an accident resulting in serious injury or death. In this case, set the mode selection to the  position and fan speed control to a lower speed.


- For maximum defrost performance, set the temperature control 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, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, outside rearview mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up the inside of the windshield.

To defog inside windshield

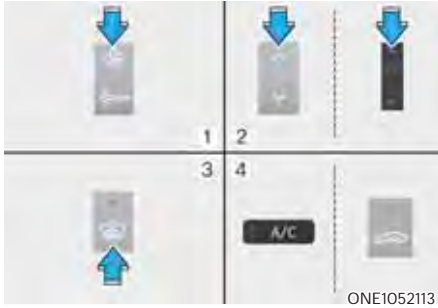


1. Select the desired fan speed.
2. Select the desired temperature.
3. Touch the defroster icon ().
4. When the defogging logic is enabled, Fresh mode is selected and air conditioning is selected according to outside temperature.

Check to make sure the air intake control is in Fresh mode. If the air intake control indicator light is illuminated, touch the icon once to enable Fresh mode (indicator light OFF).

If the  position is selected, the fan speed is automatically increased.

To defrost outside windshield



1. Set the fan speed to the highest position.
2. Set the temperature to the extreme hot position.
3. Touch the defroster icon (☀️).
4. When Defogging logic is enabled, Fresh mode is selected and air conditioning is selected according to outside temperature.

Check to make sure the air intake control is in Fresh mode. If the air intake control indicator light is illuminated, touch the icon once to enable Fresh mode (indicator light OFF).

If the ☀️ position is selected, lower fan speed is adjusted to a higher fan speed.

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 such as ☀️ positions. To cancel or reset the defogging logic, do the following.

1. Press the Start/Stop button to the ON position.
2. Touch the defroster icon (☀️) or (☀️).
3. While touching the A/C icon, touch the air intake control icon at least 5 times within 3 seconds.

The air intake control indicator will blink 3 times to indicate that the defogging logic has been disabled. Repeat the steps again to re-enable the defogging logic.

The air intake control indicator will blink 6 times to indicate that the defogging logic has been enabled.

If the battery has been discharged or disconnected, it resets to the defog logic status.

Rear window defroster

NOTICE

To prevent damage to the rear window defroster conducting elements bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.



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 the rear window defroster, touch the rear window icon located in the center control panel. The indicator on the rear window defroster illuminates when the defroster is on.
- To turn off the defroster, touch 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 approximately 20 minutes or when the Start/Stop button is in the OFF position.

Outside rearview mirror defroster

If your vehicle is equipped with the rearview mirror defrosters, they will operate at the same time you turn on the rear window defroster.

CLIMATE CONTROL ADDITIONAL FEATURES

Auto defogging system



Auto defogging helps reduce the possibility of fogging up the inside of the windshield by automatically sensing the moisture on inside the windshield.

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 will illuminate.

If a high amount of humidity is detected in the vehicle, the Auto Defogging System will be enabled. The following steps will be 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 recirculation mode is manually selected while Auto Defogging System is ON, the Auto Defogging System will be canceled.

Turning the Auto Defogging System ON or OFF

Climate control system

Touch the front windshield defroster icon for 3 seconds when the Start/Stop button is in the ON position. When the Auto Defogging System is turned off, the ADS OFF symbol will blink 3 times and ADS OFF will be displayed on the climate control information screen.

When the Auto Defogging System is turned on, the ADS OFF symbol will blink 6 times without a signal.

Infotainment system

Auto Defogging System can be turned on and off by selecting 'Setup → Vehicle Settings → Climate → Defog/Defrost Options → Auto Defog' from the infotainment system screen.

Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

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.
- To maintain the effectiveness and efficiency of the Auto Defogging System, do not select Recirculation mode while the 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 upper end of the windshield glass.



Damage to system parts could occur and 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 minutes, depending on the outside temperature, and the air intake will change to fresh mode.

Turning Auto Dehumidify ON or OFF

Climate control system

To turn the Auto Dehumidify feature on or off, select Face level () mode and touch the air intake control icon () at least five times within three seconds. When Auto Dehumidify is turned on, the air intake control button indicator will blink 6 times. When turned off, the indicator will blink 3 times.

Infotainment system

Auto Dehumidify can be turned on and off by selecting 'Setup → Vehicle Settings → Climate → Automatic Ventilation → Auto Dehumidify' from the infotainment system screen.

Information

If the battery (12V) is discharged or disconnected, Auto dehumidify settings will be reset. Readjust the settings to turning Auto dehumidify option ON or OFF.

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Recirculating air when washer fluid is used

Recirculation mode automatically activates to reduce any objectionable scent of the washer fluid from entering the cabin when the windshield washer is used.

Turning Activate upon Washer Fluid Use ON or OFF

Activate upon Washer Fluid Use can be turned on and off by selecting 'Setup → Vehicle Settings → Climate → Recirculate Air → Activate upon Washer Fluid Use (or Interlocking washer fluid)' from the infotainment system screen.



Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Auto. Controls That Use Climate Control Settings (for driver's seat)

The temperature of the driver's seat warmer, air ventilated seat and heated steering wheel is automatically controlled depending on the inside and outside temperature of the vehicle when the vehicle is running.

To use these features, it must be enabled from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Seat → Heated/Ventilated Features → Heated/Ventilated Features → Auto. Controls That Use Climate Control Settings

For more details on Auto Comfort Control, refer to "Seat Warmers" and "Air ventilation seats" section in chapter 3 and "Heated Steering Wheel" section in this chapter.

Smart ventilation

The smart ventilation system maintains pleasant/fresh air condition inside the passenger compartment by automatically detecting/controlling the temperature and humidity, when you drive the vehicle with the climate control system in the OFF position. When the smart ventilation system starts to operate, the message "SMART VENTILATION ON" appears for 5 seconds.

- The smart ventilation system stops operating, when the BLOWER DOWN OFF button of the climate control system is selected.
- The smart ventilation system stops operating, when any button of the climate control system is selected for operation.
- The smart ventilation system may not operate, when the vehicle is driven at low speed.

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.

Console Storage



This space provides object 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.

NOTICE

Use of excessive force to the console box may damage the sliding rail or the control lever.

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.

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.

WARNING

Keep cans or bottles out of direct sun light and do not put them in a hot vehicle. It may explode.

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.

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.
- 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.

Power outlet



The power outlet is designed to provide power for mobile telephones or other devices designed to operate with vehicle electrical systems. The devices should draw less than 180 watts with the vehicle running.

WARNING

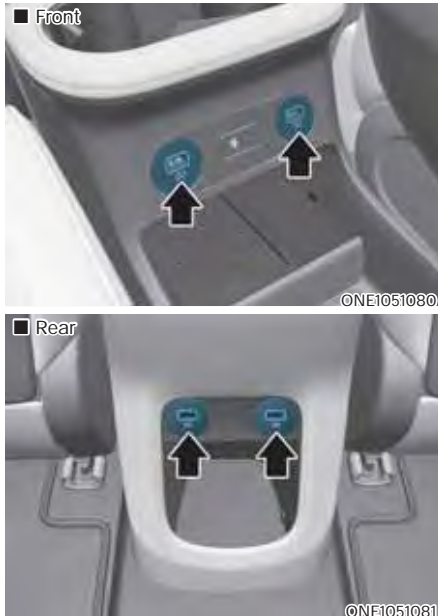
Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

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.
- Plug in battery equipped electrical/electronic devices with reverse current protection. The current from the battery may flow into the vehicle's electrical/electronic system and cause system malfunction.

USB charger (if equipped)



The USB charger is designed to recharge batteries of small size electrical devices using a USB cable.

The electrical devices can be recharged when the Start/Stop button is in the ON or START position.

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, which adopts a different re-charging method, may not be properly re-charged. In this case, use an exclusive charger of your device.
- The charging terminal is only to recharge a device. Do not use the charging terminal either to turn ON an audio or to play media in the infotainment system.

NOTICE

- **Use the USB charger when the vehicle is running. Using the USB charger for prolonged periods of time with the vehicle off could 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 current consumption exceeding 2,100 mA (2.1 A).**

Wireless smart phone charging system (if equipped)



[A] : Indicator light, [B] : Charging pad

On certain models, the vehicle comes equipped with a wireless smart phone charger.

The system is available when all doors are closed, and when the Start/Stop button is in the ON or START position.

Charging smart phone

The wireless smart phone charging system charges only the Qi-enabled smart phones (Qi). Read the label on the smart phone accessory cover or visit your smart phone manufacturer's website to check whether your smart phone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled smart phone on the wireless charging unit.

1. Remove other items, including the smart key, from the wireless charging unit. If not, the wireless charging process may be interrupted. Place the smart phone on the center of the charging pad.
2. The indicator light is orange when the smart phone is charging. The indicator light will turn blue when phone charging is complete.
3. You can turn ON or OFF the wireless charging function from the Settings menu in the infotainment system screen. Select:
 - Setup → Vehicle → Convenience → Wireless Charging

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

If your smart phone is not charging:

- Slightly change the position of the smart phone on the charging pad.
- Make sure the indicator light is orange.

The indicator light will blink orange for 10 seconds if there is a malfunction in the wireless charging system.

In this case, temporarily stop the charging process, and re-attempt to charge your smart phone again.

The system warns you with a message on the cluster display if the smart phone is still on the wireless charging unit after the vehicle is turned OFF and the front door is opened.

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.

NOTICE

- **The wireless smart phone charging system may not support certain smart phones, which are not verified for the Qi specification (Qi).**
- **When placing your smart phone on the charging pad, position the phone in the middle of the mat for optimal charging performance. If your smart phone is off to the side, the charging rate may be less and in some cases the smart phone may experience higher heat conduction.**
- **In some cases, the 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 smart phones, the charging indicator may not change to blue when the smart phone is fully charged.**
- **The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless smart phone charging system. The wireless charging process restarts, when temperature falls to a certain level.**
- **The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless smart phone charging system and smart phone.**
- **When charging some smart phones with a self-protection feature, the wireless charging speed may decrease and the wireless charging may stop.**
- **If the smart phone has a thick cover, the wireless charging may not be possible.**
- **If the smart phone is not completely contacting the charging pad, wireless charging may not operate properly.**
- **Some magnetic items like credit cards, phone cards or rail tickets may be damaged if left with the smart phone during the charging process.**
- **When any smart phone without a wireless charging function or a metallic object is placed on the charging pad, a small noise may sound. This small sound is due to the vehicle discerning compatibility of the object placed on the charging pad. It does not affect your vehicle or the smart phone in any way.**

Information

If the Start/Stop button is in the OFF position, the charging also stops.

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.

Vehicle to load (V2L) (if equipped)



V2L(Vehicle to Load) is installed at the central rear seat. V2L is a convenient feature which provides enough electricity to use diverse household electrical appliances in the vehicle.

V2L is installed at the central rear seat bottom.

For more details, refer to “Vehicle to load(V2L)” section in chapter 1.

Clock

The clock can be set from the infotainment system.

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

! WARNING

Do not attempt to adjust the clock while driving. Doing so may result in distracted driving which may lead to an accident involving personal injury or death.

Coat hook



These hooks are not designed to hold large or heavy items.

! WARNING



Do not hang other objects such as hangers or hard objects except clothes. Also, do not put heavy, sharp or breakable objects in the clothes pockets. In an accident or when the curtain air bag is inflated, it may cause vehicle damage or personal 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

Do not overlay additional mats or liners over the floor mats. If using All Weather mats, remove the carpeted floor mats before installing them. Only use floor mats designed to connect to the anchors.



WARNING

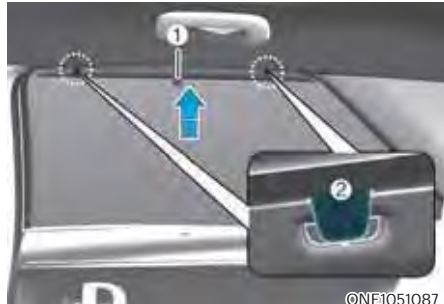
The following must be observed when installing ANY floor mat to the vehicle.

- Ensure to remove a protective film attached on the carpet before attaching a floor mat on the front floor carpet. Otherwise, the floor mat may move freely on the protective film and it could result in unintentional braking or accelerating.
- Ensure that the floor mats are securely attached to the vehicle's floor mat anchor(s) before driving the vehicle.
- 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 (for example, all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.

IMPORTANT Your vehicle was manufactured with driver's side floor mat anchors that are designed to securely hold the floor mat in place. To avoid any interference with pedal operation, HYUNDAI Vehicle 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 (2). 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.

Luggage net holder (if equipped)



To keep items from shifting in the luggage compartment, you can use the 4 holders located in the luggage board to attach the luggage net.

Make sure the luggage net is securely attached to the holders in the luggage board.

If necessary, we recommend that you contact your authorized HYUNDAI dealer to obtain a luggage net.

WARNING

Avoid eye injury. DO NOT overstretch the luggage net. ALWAYS keep your face and body out of the luggage net's recoil path. DO NOT use the luggage net when the strap has visible signs of wear or damage.

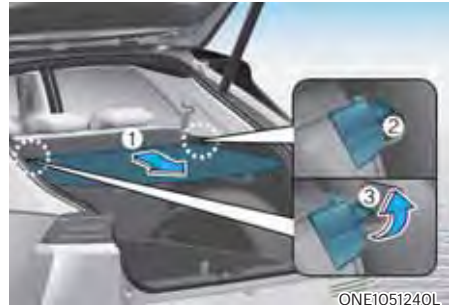
Use the luggage net to keep only light items from shifting in the luggage compartment.

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.

i 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



You can use a USB cable to connect audio devices to the vehicle USB port.

i Information

When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the portable audio device's power source.

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 (VOL + / VOL -) (1)

- Rotate the VOLUME scroll up to increase volume.
- Rotate the VOLUME scroll down to decrease volume.

SEEK/PRESET (^ / v) (2)

If the SEEK/PRESET switch is pressed up or down and held for 0.8 second or more, it will function in the following modes:

- **RADIO mode**
It will function as the AUTO SEEK select button. It will SEEK until you release the button.
- **MEDIA mode**
It will function as the FF/RW button.

If the SEEK/PRESET switch is pressed up or down, it will function in the following modes:

- **RADIO mode**
It will function as the PRESET STATION UP/DOWN button.
- **MEDIA mode**
It will function as the TRACK UP/DOWN button.

MODE (3)

Press the MODE button to toggle through Radio or AUX modes.

MUTE (M) (4)

- Press the MUTE(M) button to mute or activate the sound.

i Information

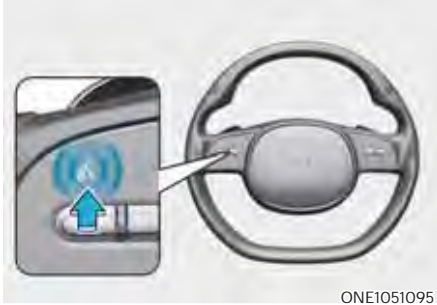
The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Infotainment system



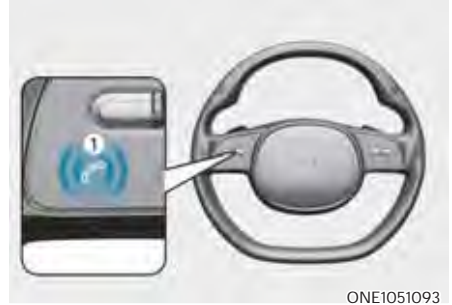
The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Voice recognition



The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

Bluetooth® Wireless Technology



- (1) Call / Answer / Call end button
- (2) Microphone

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

⚠ CAUTION

To avoid driver distractions, do not excessively operate the device while driving the vehicle which may lead to an accident.

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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 30 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 two seconds OR Rapidly press and release the Start/Stop button three times (within three 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.	<ul style="list-style-type: none"> • 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

- * 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 about 5 seconds. Keep the smart key in the vehicle when in the ACC position or if the vehicle is in the ready (READY) mode.

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.



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 12V battery.

For your safety always depress the brake pedal before starting the vehicle.

**Information****Virtual Engine Sound System(VESS)**

VESS generates virtual engine sound to make pedestrians 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

■ Type A



ONE1061006L

■ Type B



ONE1061007L

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 within 10 m (32 feet) from the vehicle.
 2. Press the remote start (Ⓞ) button for over 2 seconds within 4 seconds after locking the doors.
 3. To turn off the remote start function, press the remote start (Ⓞ) button once.
- The remote start (Ⓞ) button may not operate if the smart key is not within 10 m (32 feet).
 - 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 turns off 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.

REDUCTION GEAR



ONE1061008

[A]: Rotary gear shift dial, [B]: P button

Reduction gear 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).



ONE1061001

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.
- After the vehicle has stopped, always make sure the vehicle is in P (Park), apply the parking brake, and turn the vehicle off.
- When parking on an incline, shift the gear to P (Park) and apply the parking brake to prevent the vehicle from rolling downhill.



Information

For vehicles equipped with the Electronic Parking Brake (EPB), EPB applies automatically when the gear is shifted to P (Park).

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 cluster.

R (Reverse)

Use this position to drive the vehicle rearward.



To shift the gear to R (Reverse), rotate the rotary gear shift dial to R (Reverse) while depressing the brake pedal.

When the vehicle is stopped in the R (Reverse) position, if you open the driver's door, the gear will automatically shift to P (Park).

However, if the vehicle is in motion, the gear may not automatically shift to P (Park) to prevent reduction gear damage.

The direction of the rotary gear shift dial is the same as that of the wheel.

NOTICE

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the reduction gear if you shift into R (Reverse) while the vehicle is in motion.

N (Neutral)



ONE1061054

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.

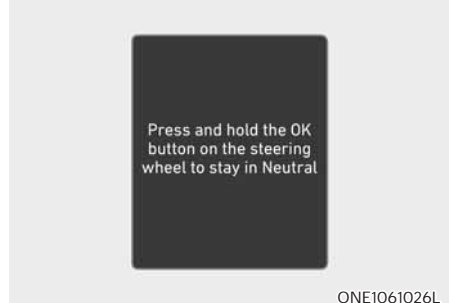
If you turn the vehicle off in N (Neutral), the gear will automatically shift to P (Park).

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.

To stay in N (Neutral) when vehicle is OFF



ONE1061026L



ONE1061011

If you want to stay in N (Neutral) after the vehicle is in the ACC state, 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 (12V) 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.



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).

D (Drive)

This is the normal driving position.

The reduction gear automatically activates the regenerative braking system according to the road conditions.



To shift the gear to D (Drive), rotate the rotary gear shift dial to D (Drive) while depressing the brake pedal.

When the vehicle is stopped in the D (Drive) position, if you open the driver's door, the gear will automatically shift to P (Park).

However, if the vehicle is in motion, the gear may not automatically shift to P (Park) to prevent reduction gear damage.

NOTICE

Always come to a complete stop before shifting into D (Drive).



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.

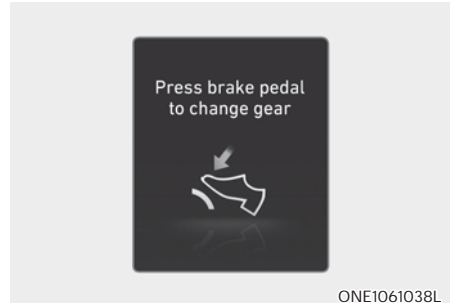
When the battery (12V) is discharged

You cannot shift gears, when the battery is discharged.

Jump start your vehicle (refer to "Jump Starting" 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.

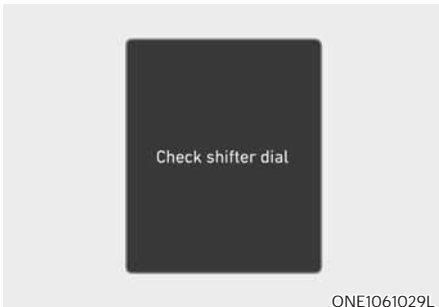
Stop the vehicle before shifting to P (Park).

Shifter system malfunction



This message is displayed when the shift gear does not properly operate in the P (Park) position. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Check shifter 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.

Check P button



This message is displayed when there is a problem with the P button. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Rotary shifter stuck



This message is displayed when the rotary gear shift dial does not return back to its normal position after rotating it. We recommend that you have the vehicle 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. If the gear is shifted to N (Neutral) while driving. Doing so may increase the risk of an accident. Also, shift the gear back to D (Drive) while the vehicle is moving may severely damage the reduction gear.
- 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 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.



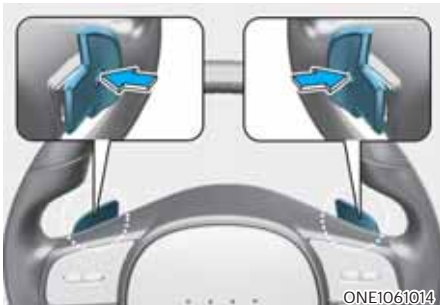
WARNING

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.
- **HYUNDAI** Vehicle recommends you to follow all posted speed limits.

REGENERATIVE BRAKING SYSTEM

Regenerative braking (Paddle shifter)



The paddle shifter is used to adjust the regenerative braking level from 0 to 3 during decelerating.

- Left side (+⎓): Increases regenerative braking and deceleration.
- Right side (-⎓): Decreases regenerative braking and deceleration.
- Pull and hold the left side paddle shifter for more than 0.5 seconds and One pedal driving function is operated, increasing the regenerative braking. In this case, stopping the vehicle is possible by keep on pulling the paddle shifter.

Refer to the following pages on "One pedal driving".

- Pull and hold the right side paddle shifter for over 1 second to turn on and off the automatic change of the regenerative braking.

Refer to the following pages on "Smart Recuperation System".

i Information

The paddle shifter does not operate when:

- The [+⎓] and [-⎓] paddle shifters are pulled at the same time.
- The vehicle is decelerating by depressing the brake pedal.
- The Cruise Control system or Smart Cruise Control system is activated.
- Selecting 0 step of the regenerative braking system, the brake disc cleaning function is operated around 10 times. While operating to clean the brake disc, the driving distance and the regenerative braking performance can be reduced. After finishing, the regenerative braking performance will be restored.




The selected regenerative braking level is displayed on the instrument cluster.

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" in this chapter.

One pedal driving

The driver can stop the vehicle by pulling the left side paddle shifter .

To operate:

- Pull and hold the left side paddle shifter while coasting.
- When the vehicle speed is above 3 km/h, release the paddle shifter to return to the preset regenerative braking stage.
- When the vehicle speed is below 3 km/h, the function maintains control to stop the vehicle even though the paddle shifter is released.
- While the One pedal driving is in activation, the driver can control the vehicle stopping position using the accelerator pedal.

Limitations

The vehicle may move even if one pedal driving is normally operated. Therefore, the driver should be careful to stop the vehicle by this function under circumstances as follows:

- Driving on icy, snowy, wet, sandy, muddy roads, manhole/pit hole surfaces
- Wheels not aligned
- Conditions in which wheel slip or spin occurs
- On heavy loading
- By leaning left of right
- Under bad tire wear
- Driving uphill or downhill
- Driving where the slope starts or ends
- By repeating stop and go on ramp

Automatic engagement of EPB

After the vehicle is stopped by the One Pedal Driving function, EPB is automatically engaged when any of these conditions occur:

- The driver's seatbelt is unfastened and the driver's door is open.
- 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.



WARNING

- **Stopping the vehicle may not be possible according to the vehicle and road conditions. Pay attention to the road condition ahead and apply the brake if necessary.**
- **Please refrain to use the one pedal driving function with the road conditions are bad such as being wet, iced or covered with snow.**



CAUTION

When the vehicle is stopped or parked by One Pedal Driving on the steep hills, be sure to depress the brake pedal.

i-Pedal

i-Pedal is controlled by acceleration pedal. i-Pedal provides vehicle speed control (acceleration/deceleration, stopping) without manually controlling the paddle shifter.

To operate:

- Pull the left side paddle shifter at level 3 regenerative braking system.
- During the activation of i-Pedal, the vehicle is stopped when the vehicle speed is less than 3 km/h (1 mph) even if the brake pedal is not pressed.
- When you press the accelerator pedal at the same time during one-pedal driving by pulling the left paddle shift lever, the vehicle cannot be stopped.



CAUTION

When the vehicle is stopped or parked by i-Pedal on the steep hills, be sure to depress the brake pedal.

To deactivate:

- The i-Pedal is deactivated when the driver turns off the vehicle. When the vehicle is turned on, the regenerative braking is set to be on level 3.
- The i-Pedal is turned off and the regenerative braking changes to level 3 when the gear is shifted to R.

Limitations

The vehicle may move even if one pedal driving is normally operated. Therefore, the driver should be careful to stop the vehicle by this function under circumstances as follows:

- Driving on icy, snowy, wet, sandy, muddy roads, manhole/pit hole surfaces
- Wheels not aligned
- Conditions in which wheel slip or spin occurs
- On heavy loading
- By leaning left of right
- Under bad tire wear
- Driving uphill or downhill
- Driving where the slope starts or ends
- By repeating stop and go on ramp

SMART RECUPERATION SYSTEM

The Smart Recuperation System controls the regenerative braking automatically according to the road gradient and driving condition of the vehicle in front. The system minimizes the unnecessary operation of the brake and acceleration pedal, improving the electric energy efficiency and assisting the driver.

Smart recuperation system setting

Pull and hold the right side paddle shifter for over 1 second to turn on and off the automatic change of the regenerative braking.

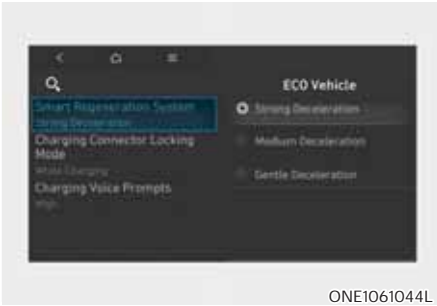
To activate smart recuperation system



When Smart Recuperation System is On in the infotainment system, 'AUTO' for the regenerative braking level is displayed on the cluster. The regenerative braking level is controlled automatically when vehicle speed is above 10 km/h (6 mph) and one of the condition below is met.

- The road gradient changes
- Distance from the vehicle ahead reduces or increases
- Speed of the vehicle ahead reduces or increases

i Information



The regenerative braking level can be adjusted based on the driver's deceleration style (strong/medium/gentle). To adjust the level, select 'Settings → ECO vehicle → Smart Regeneration System in the infotainment system.

⚠ WARNING

When vehicle speed is under 10 km/h (6 mph), the Smart Recuperation System is cancelled. The driver must adjust the vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

Smart Recuperation System relies on front view camera in the vehicle. Foreign substances on the front view camera may cause the malfunction of Smart Recuperation System. Be sure to maintain clear view for the front view camera.

The Smart Recuperation System will not operate when the Forward Collision-Avoidance Assist (FCA) system warning light on the cluster. The driver must adjust the vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

Ready to operate



Regenerative braking level is displayed on cluster.

How to operate



Pulling the paddle-shift (↶↷) for 1 or more seconds, the smart recuperation system will operate. The indicator of the regenerative braking will be changed to 'AUTO' from the level indicator.



WARNING

The Smart Recuperation System which automatically controls the regenerative braking level when coasting is only a supplemental system for the driver's convenience. The system cannot completely stop the vehicle nor avoid all collisions. The brake control may be insufficient depending on the speed of the vehicle in front and when the vehicle in front suddenly stops, a vehicle cuts in suddenly and there is a steep slope. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.

Smart recuperation system will be temporarily cancelled when:

- Cancelled manually
 - Pulling and holding the right side paddle shifter for more than 1 second. The Smart Recuperation System turns off temporarily and "AUTO" will be replaced with regenerative braking level indicator.
- Cancelled automatically
 - The vehicle is shifted to N (Neutral), R (Reverse) or P (Park).
 - Cruise Control system (including Smart Cruise Control system) is in activation.
 - The ESC (Electronic Stability Control) or ABS is operating.



WARNING

When the Smart Recuperation System is cancelled automatically, adjust the vehicle speed directly by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

To resume Smart Recuperation System

To re-activate the Smart Recuperation System while driving, pull and hold the right side paddle shifter for more than 1 second again. Then, AUTO for the regenerative braking level will appear on the cluster.

Vehicle-to-vehicle distance recognition sensor (Front radar)



[1]: Front radar
For detail location of sensor, refer to the picture above.

In order for the Smart Recuperation System to operate properly, always make sure the radar sensor cover is clean and free of dirt, snow, and debris. Dirt, snow, or foreign substances on the lens may adversely affect the sensing performance of the sensor. In this case, the system operation may stop temporarily and not operate normally.

CAUTION

- Do not apply license plate frame or foreign objects such as a bumper sticker or a bumper guard near the radar sensor. Doing so may adversely affect the sensing performance of the radar.
- Always keep the radar sensor and lens 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.
- Be careful not to apply unnecessary force on the radar sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the Smart Recuperation System may not operate correctly. In this case, a warning message may not be displayed. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
- If the front bumper becomes damaged in the area around the radar sensor, the Smart Recuperation System may not operate properly. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts or the equivalent specified for your vehicle to repair or replace a damaged sensor or sensor cover. Do not apply paint to the sensor cover.

System malfunction



OOSEV040521L

Check smart recuperation system

The message will appear when the system is not functioning normally. The system will be cancelled and the word 'AUTO' on the cluster will disappear and instead display regenerative braking level. Check for foreign substances on the front radar. Remove any dirt, snow, or foreign material that could interfere with the radar sensors. If the system still does not operate normally, we recommend that you take your vehicle to an authorized HYUNDAI dealer and have the system checked.

Limitations of the system

The Smart Recuperation System may not operate properly in certain situations when the driving condition is beyond the performance of the front radar sensor.

Driver's attention is required in such cases when the system does not react properly or operate unintentionally.

On curves



OTM058117

When coasting on the curve, the system may not detect the vehicle in your lane and the regenerative braking level will reduce automatically, making you feel that the vehicle is accelerating.

Also, if the system suddenly recognizes the vehicle in front, the regenerative braking level will increase automatically, making you feel that the vehicle is decelerating.

The driver 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.

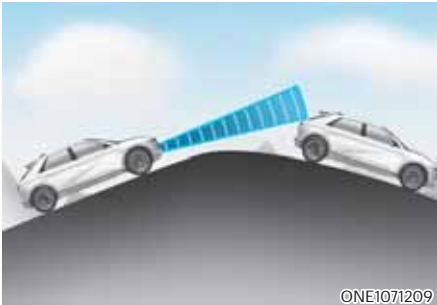


OTM058073

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

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

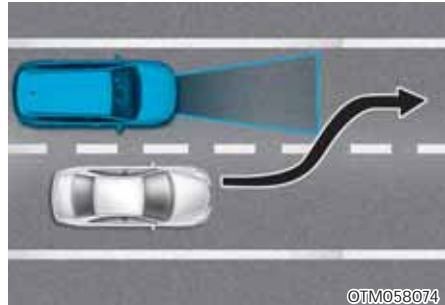
On inclines



When coasting on an uphill or downhill, the system may not detect the vehicle in your lane and the regenerative braking level will reduce automatically, making you feel that the vehicle is accelerating. Also, if the system suddenly recognizes the vehicle in front, the regenerative braking level will increase automatically, making you feel that the vehicle is decelerating.

The driver 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.

Lane changing



- A vehicle which moves into your lane from an adjacent lane cannot be recognized by the sensor until it is in the sensor's detection range.
- The radar may not detect immediately when a vehicle cuts in suddenly. Always pay attention to the traffic, road and driving conditions.

Vehicle recognition



Some vehicles in your lane cannot be recognized by the sensor:

- Narrow vehicles such as motorcycles or bicycles
- Vehicles offset to one side
- Slow-moving vehicles or sudden-decelerating vehicles
- Stopped vehicles (When the vehicle ahead drives away, the system may not detect a stopped vehicle.)
- Vehicles with small rear profile such as trailers with no loads

A vehicle ahead cannot be recognized correctly by the sensor if any of following occurs:

- When the vehicle is pointing upwards due to overloading in the luggage compartment.
- While the steering wheel is operating.
- When driving to one side of the lane.
- When driving on narrow lanes or on curves.
- Apply the brake or accelerator pedal if necessary.



WARNING

When using the Smart Recuperation System take the following precautions:

- If an emergency stop is necessary, you must apply the brakes.
- Keep a safe distance according to road conditions and vehicle speed. If the vehicle to vehicle distance is too close during a high-speed driving, a serious collision may result.
- Always maintain sufficient braking distance and decelerate your vehicle by applying the brakes if necessary.
- The Smart Recuperation System cannot recognize a stopped vehicle, pedestrians or an oncoming vehicle. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- Vehicles moving in front of you with a frequent lane changes may cause a delay in the system's reaction or may cause the system to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- The Smart Recuperation System may not recognize complex driving situations so always pay attention to driving conditions and control your vehicle speed.

NOTICE

The Smart Recuperation System may not operate temporarily due to:

- Electrical interference
- Modifying the suspension
- Differences of tire abrasion or tire pressure
- Installing different type of tires

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.**
- **While driving on a road with deicing chemicals, brake noise or abnormal tire wear may occur due to deicing chemicals. In a safe traffic condition, additionally apply the brakes to remove deicing chemicals on the brake discs and pads.**

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

ONE1061015L

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.

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 could damage the brake system and lead to an accident.



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:

- Gear in P (Park)
With the vehicle running depress the brake pedal and shift out of P (Park) to R (Reverse) or D (Drive).
- Gear in N (Neutral)
With the vehicle running depress the brake pedal and shift out of N (Neutral) to R (Reverse) or D (Drive).

- Satisfy the following conditions
 1. Ensure seat belts are fastened and the doors, hood and tailgate are closed.
 2. With the vehicle running, depress the brake pedal and shift out of P (Park) to R (Reverse) or D (Drive).
 3. Depress the accelerator pedal.
Make sure the Parking Brake warning light goes off.

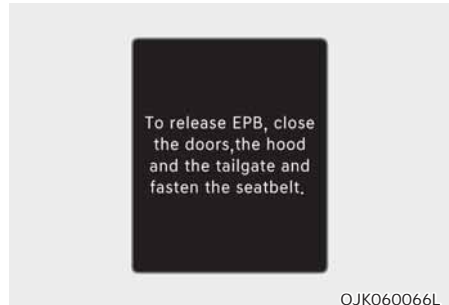
i Information

- **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 you try to drive with EPB applied, a warning will sound and a message will appear.
- If the driver's seat belt is unfastened and the hood or tailgate is opened, a warning will sound and a message will appear.
- If there is a problem with the vehicle, a warning may sound and a message may appear.

If the situation occurs, depress the brake pedal and release EPB by pressing the EPB switch.



WARNING

- Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal.

Shift the gear into P (Park), pull the EPB switch, and press the Start/Stop button to the OFF position. Take the Key with you when leaving the vehicle.

Vehicles not fully engaged in P (Park) with the parking brake set are at risk for moving inadvertently and causing injury to yourself or others.

- NEVER allow anyone who is unfamiliar with the vehicle to touch the EPB switch. If EPB is released unintentionally, serious injury may occur.
- Only release EPB when you are seated inside the vehicle with your foot firmly on the brake pedal.



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.

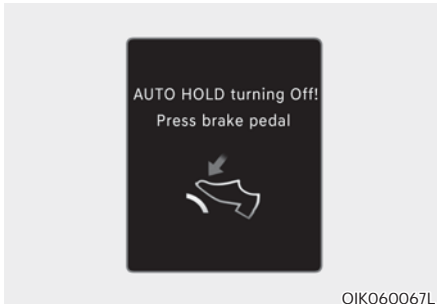
NOTICE

- Do not apply the accelerator pedal while the parking brake is engaged. If you depress the accelerator pedal with EPB engaged, a warning will sound and a message will appear. Damage to the parking brake may occur.
- Driving with the parking brake on can overheat the braking system and cause premature wear or damage to brake parts. Make sure EPB is released and the Parking Brake warning light is off before driving.



Information

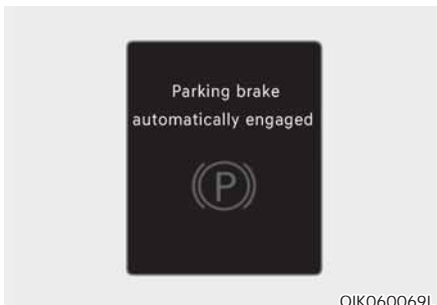
- A clicking sound may be heard while operating or releasing the EPB. These conditions are normal and indicate that EPB is functioning properly.
- When leaving your keys with a parking attendant or assistant, make sure to inform him/her how to operate EPB.



OIK060067L

AUTO HOLD turning Off! Press brake pedal

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.



OIK060069L

Parking brake automatically engaged

When EPB is applied while Auto Hold is activated, a warning will sound and a message will appear.

EPB malfunction

Electronic Parking Brake (EPB) warning light illuminates if the Start/Stop button is pressed to the ON position and goes off in approximately 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 pressed to the ON position, this indicates that 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 EPB warning light is still on, we recommend that you have the system checked by an authorized HYUNDAI dealer.
- 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

 Check the Parking Brake warning light by pressing the Vehicle Stop/Start button to the ON position.

This light will be illuminated when the parking brake is applied with the Vehicle Stop/Start button in the START or ON position.

Before driving, be 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. Immediate attention is necessary.

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.

To apply:



ONE1061017

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 will be in the standby position.



ONE1061018

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.
3. The vehicle will remain stationary even if you release the brake pedal.
4. If EPB is applied, Auto Hold will be released.

To release:

If you depress the accelerator pedal with the gear in D (Drive) or Manual shift mode, the Auto Hold will be released automatically and the vehicle will start to move. The AUTO HOLD indicator changes from green to white.

WARNING

When Auto Hold is automatically released by depressing the accelerator pedal, always take a look around your vehicle.

Slowly depress the accelerator pedal for a smooth start.

To cancel:



ONE1061019

1. Depress and hold the brake pedal.
 2. Press the AUTO HOLD switch.
- The AUTO HOLD indicator will turn off.

WARNING

To prevent, unexpected and sudden vehicle movement, **ALWAYS** press your foot on the brake pedal to cancel the Auto Hold before you:

- Drive downhill.
- Drive the vehicle in R (Reverse).
- Park the vehicle.

i Information

- The Auto Hold does not operate when:
 - The gear is in P (Park)
 - EPB is applied
- For your safety, the Auto Hold automatically switches to EPB when:
 - The driver's door is opened
 - The tail gate is opened
 - The hood is opened
 - The vehicle is in a standstill for more than 10 minutes
 - The vehicle is standing on a steep slope
 - The vehicle moved several times

In these cases, the Parking Brake warning light comes on, the AUTO HOLD indicator changes from green to white, and a warning sound and a message will appear to inform you that EPB has been automatically engaged. Before driving off again, depress the brake pedal, check the surrounding area near your vehicle and release the parking brake manually with the EPB switch.

- While operating Auto Hold, you may hear mechanical noise. However, it is normal operating noise.
- If the vehicle is restarted with the Auto Hold system in the standby position or operating, the Auto hold system will continue to operate in the standby position.

NOTICE

If the AUTO HOLD indicator changes to yellow, Auto Hold is not working properly. We recommend that you contact an authorized HYUNDAI dealer.

⚠ WARNING

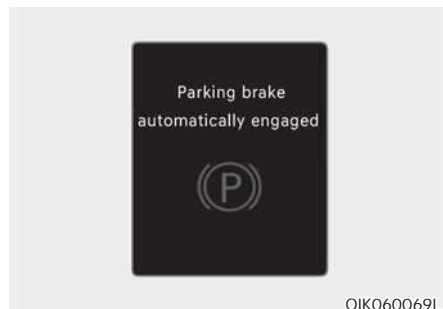
- Depress the accelerator pedal slowly when you start the vehicle.
- For your safety, cancel Auto Hold when you drive downhill, back up the vehicle or park the vehicle.

NOTICE

If there is a malfunction with the driver's door or hood open detection system, Auto Hold may not work properly.

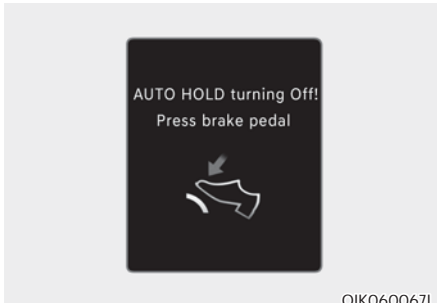
We recommend that you contact an authorized HYUNDAI dealer.

Warning messages



Parking brake automatically engaged

When EPB is applied while Auto Hold is activated, a warning will sound and a message will appear.

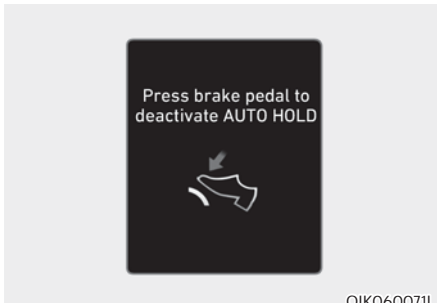


OIK060067L

AUTO HOLD turning Off! Press brake pedal

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.

When this message is displayed, Auto Hold and EPB may not operate. For your safety, depress the brake pedal.



OIK060071L

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 will sound and a message will appear.

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.

The safety features of ABS or ESC equipped vehicle should not be tested by high speed driving or cornering. This could 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.

When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ABS is active.

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 will 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 ((ABS)) warning light will stay on for several seconds after the Start/Stop button is in the ON position.

During that time, ABS will go through self-diagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. 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 will work normally. To reduce the risk of serious injury or death, we recommend that you 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 will be active continuously and the ABS ((ABS)) warning light may illuminate. Pull your vehicle over to a safe place and turn the vehicle off.

Restart the vehicle. If the ABS warning light is off, then your ABS system is normal.

Otherwise, you may have a problem with your ABS system. We recommend that you contact an authorized HYUNDAI dealer as soon as possible.

i Information

When you jump start your vehicle because of a drained battery, the ABS (ABS) warning light may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.

Electronic Stability Control (ESC)



Electronic Stability Control helps to 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 when cornering. ESC will not prevent accidents.

Excessive speed in turns, abrupt maneuvers, and hydroplaning on wet surfaces can result in severe accidents.

ESC operation

ESC ON condition

When the Start/Stop button is in the ON position, ESC and the ESC OFF indicator lights illuminate for approximately three 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 which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.
- When ESC activates, the vehicle may not respond to the accelerator as it does under routine conditions.
- If Cruise Control was in use when ESC activates, Cruise Control automatically disengages. Cruise Control can be reengaged when the road conditions allow. See "Cruise Control System" section in chapter 7 (if equipped).

ESC OFF condition



To cancel ESC operation:

- State 1

Press the ESC OFF button briefly. The ESC OFF indicator light and/or message 'Traction Control disabled' will illuminate. In this state, 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 & Stability Control disabled' illuminates and a warning chime sounds. In this state, 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 will automatically turn 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 pressed to 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, your vehicle may have a malfunction with the ESC system. When this warning light illuminates we recommend that the vehicle be checked 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 ESC off while the ESC indicator light is blinking or you may lose control of the vehicle resulting in an accident.

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 same size. 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 reduction gear:

- Do not allow wheel(s) of one axle to spin excessively while the ESC, ABS, and Parking Brake warning lights are displayed. The repairs would not be covered by the vehicle warranty. Reduce motor power and do not spin the wheel(s) excessively while these lights are displayed.
- 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.
- Select 0 step of the regenerative braking system and depress the brake pedal around 10 times to efficiently apply brake disc cleaning.

Brake disc cleaning may decrease the driving distance by restraining the regenerative braking system. After brake disc cleaning, the regenerative braking system may be restored.

If the regenerative braking system is not restored after the brake disc cleaning, we recommend to inspect the vehicle by an authorized HYUNDAI dealer.

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 which may 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 EPS (Electric power steering) warning light (⚠) is on or blinks.

VSM OFF condition

To cancel VSM operation, press the ESC OFF button. ESC OFF (OFF) indicator light will illuminate.

To turn on VSM, press the ESC OFF button again. The ESC OFF indicator light will go out.

**WARNING**

If the ESC (ESP) indicator light or EPS (EPS) warning light stays illuminated or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates we recommend that the vehicle be checked 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 a vehicle from a stop on a hill. The system operates the brakes automatically for approximately 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 off an incline. Hill-Start Assist Control activates only for approximately 2 seconds (maximum of 5 seconds when the accelerator pedal is slightly depressed during HAC operation).

**Information**

- 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. However, it does not activate, when ESC does not operate normally.

Emergency Stop Signal (ESS)

Emergency Stop Signal alerts the driver behind by blinking the stop lights, while sharply and severely braking.

The system is activated 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 and the driving speed exceeds 55 km/h (34 mph).

The hazard warning flasher automatically turns ON after blinking the stop lights:

- When driving speed is under 40 km/h (25 mph),
- When ABS is deactivated, and
- When the sudden braking situation is over.

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.



Information

Emergency Stop Signal will 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 air bag deploys to reduce the risk of additional accidents that may occur.

System operation

- From the time the air bag 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 pedal and accelerator pedal is 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.

System 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.
- Ten 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, 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.**

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 parking brake, and press the Start/Stop button to the OFF position.

Vehicles parked with the parking brake 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.

Be aware of wet brakes. 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 lightly 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 and we recommend that you call an authorized HYUNDAI dealer for assistance.

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.

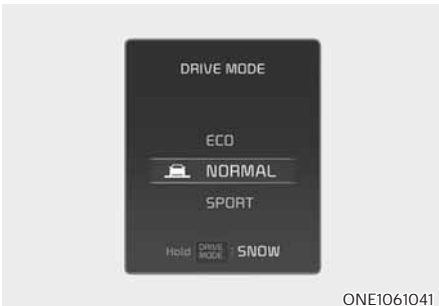
Keep your foot firmly on the brake pedal when the vehicle is stopped to prevent the vehicle from rolling forward.

DRIVE MODE INTEGRATED CONTROL SYSTEM (2WD) (IF EQUIPPED)

Drive mode



Drive mode may be selected according to the driver's preference or road condition.



The mode changes whenever the driver pushes the DRIVE MODE button.

NORMAL mode

Normal mode is a driving mode used when driving on general roads, city center and highways.

ECO mode

ECO mode is a driving mode improving energy efficiency by controlling motors and reduction gear.

Electric energy efficiency varies according to the driver's driving habit and road condition.

- When ECO mode is selected, the ECO indicator will illuminate on the instrument cluster and the color of the mood lamp will change.
- 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.

Limitations of ECO mode

If the following conditions occur while ECO mode is operating, the system operation is limited even though there is no change in the ECO indicator.

- When coolant temperature is low:
The system will be limited until motor performance becomes normal.
- When driving up a hill:
The system will be limited to gain power when driving uphill because motor torque is restricted.

SPORT mode

SPORT mode is a driving mode improving driving performance by controlling motors and reduction gear.

In SPORT mode, the electric energy efficiency may decrease.

- When SPORT mode is selected, the SPORT indicator will illuminate on the instrument cluster and the color of the mood lamp will change.
- Whenever the vehicle is restarted, the drive mode will revert back to NORMAL mode. If SPORT mode is desired, re-select SPORT mode.

SNOW mode

SNOW mode provides safe driving on the snowy roads.

- Press and hold the drive mode button to select SNOW mode.
- When SNOW mode is selected, the SNOW indicator will illuminate on the instrument cluster and the color of the mood lamp will change.

NOTICE

- **Depress the accelerator pedal softly on the snow and the ice.**
- **Keep the distance from the vehicle in the front.**
- **Prevent rapid acceleration, deceleration and steering control. Abrupt driving on the snow may cause the accident.**

ACTIVE AIR FLAP

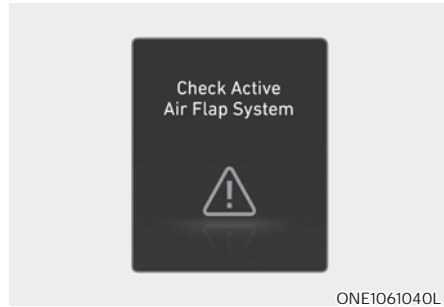


Active air flap system controls the air flap below the front bumper to cool the vehicle parts and improve energy efficiency.

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" is popped up on 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 to 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.

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.

Try to avoid spinning the wheels, and do not race the vehicle.

To prevent reduction gear wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal while shifting, and press lightly on the accelerator pedal while the reduction gear is in gear. Slowly spinning the wheels in forward and reverse directions causes a rocking motion that may free the vehicle.



WARNING

If the vehicle is stuck and excessive wheel spin occurs, the temperature in the tires can increase very quickly. If the tires become damaged, a tire blow out or tire explosion can occur. This condition is dangerous - you and others may be injured. Do not attempt this procedure if people or objects are anywhere 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).

i Information

The ESC system must be turned OFF before rocking the vehicle.

NOTICE

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 reduction gear, and tire damage. See “Towing” section in chapter 8.

Smooth cornering

Avoid braking or gear changing 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 Tread” 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 Tread” 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). SUV's 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 give them a higher center of gravity than ordinary vehicles making them more likely to roll over if you make abrupt turns. Utility vehicles have a significantly higher rollover rate than other types of vehicles. Due to this risk, driver and passengers are strongly recommended to buckle their seat belts. In a rollover crash, an unbelted person is significantly more likely to die 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

Utility vehicles 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

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Make sure all passengers are wearing their seat belts.

WINTER DRIVING

The severe weather conditions of winter quickly wear out tires and cause other problems. To minimize winter driving problems, you should take the following suggestions:

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.

If you mount snow tires on your vehicle, make sure to use radial tires of the same size and load range 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.



Information

Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.

Summer tires (if equipped)

- 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.



Information

- **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.**
- **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 of radial tires are thinner, they can be damaged by mounting some types of snow chains on them. Therefore, the use of snow tires is recommended instead of snow chains.

Do not mount tire chains on vehicle equipped with aluminum wheels; snow chains may cause damage to the wheels. If snow chains must be used, use AutoSock (fabric snow chain). Damage to your vehicle caused by improper snow chain use is not covered by your vehicle manufacturer's warranty.

When using tire chains, install tire chains only on the rear tires.



CAUTION

Always check chain installation for proper mounting after driving approximately 0.5 to 1 km (0.3 to 0.6 miles) to ensure safe mounting. Retighten or remount the chains if they are loose.

Chain Installation

When installing tire chains, follow the manufacturer's instructions and mount them as tightly 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 tire chains as soon as you begin driving on cleared roads.

When mounting snow chains, 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 vehicle before installing snow 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 or 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 miles).**
- **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 (0.47in.).
 - 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

To prevent the window washer from being frozen, add authorized 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 use coolant or other types of anti-freeze solution, to prevent any damage to the vehicle paint.

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 is 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 an motor failure. Such damage will not be covered by the manufacturer's warranty.

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 aftermarket 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.

8. Driver Assistance System

The description of each feature of the driver assistance system may differ from the owner's manual depending on the infotainment software update. Refer to the web manual that you can access with the QR code in the infotainment system quick reference.

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.

Driving safety

Forward Collision–Avoidance Assist (FCA)	8-2
Lane Keeping Assist (LKA)	8-26
Blind-Spot Collision-Avoidance Assist (BCA)	8-32
Safe Exit Warning (SEW).....	8-46
Safe Exit Assist (SEA)	8-52
Manual Speed Limit Assist (MSLA)	8-59
Driver Attention Warning (DAW).....	8-62
Blind-Spot View Monitor (BVM).....	8-68

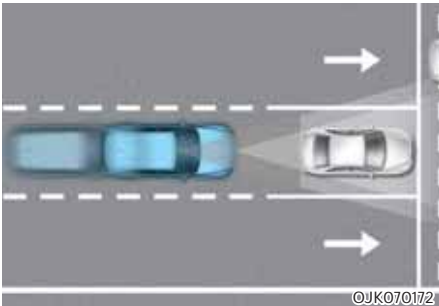
Driving convenience

Cruise Control (CC)	8-70
Smart Cruise Control (SCC).....	8-74
Lane Following Assist (LFA)	8-92

Parking safety

Rear View Monitor (RVM)	8-96
Surround View Monitor (SVM)	8-99
Rear Cross-Traffic Collision-Avoidance Assist (RCCA)	8-105
Reverse Parking Distance Warning (PDW)	8-116
Forward/Reverse Parking Distance Warning (PDW)	8-119

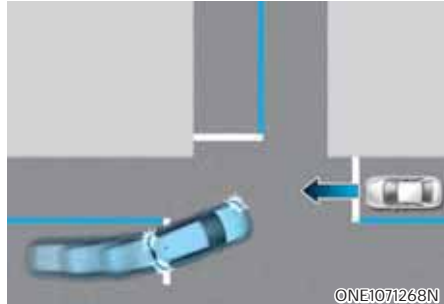
FORWARD COLLISION-AVOIDANCE ASSIST (FCA) (IF EQUIPPED)



Forward Collision-Avoidance Assist is designed to help detect and monitor the vehicle ahead or help detect a pedestrian or cyclist in the roadway and warn the driver that a collision is imminent with a warning message and an audible warning, apply emergency braking.

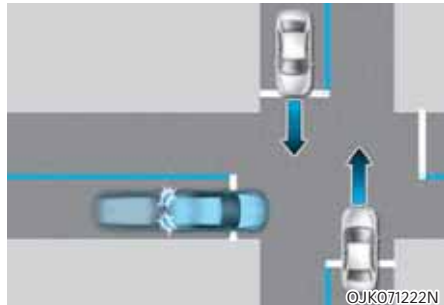
In addition, if equipped with front corner radars, when driving at high speeds, Forward Collision-Avoidance Assist will help detect vehicles in front and adjacent lanes. If a collision is imminent when changing lanes, Forward Collision-Avoidance Assist will apply emergency braking to help prevent a collision.

Junction Turning function (if equipped)



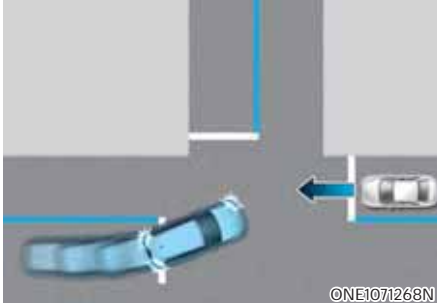
Junction Turning function will help avoid a collision with an oncoming vehicle in an adjacent lane when turning left (left-hand drive) or right (right-hand drive) at a crossroad with the turn signal on by applying emergency braking.

Junction Crossing function (if equipped)



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

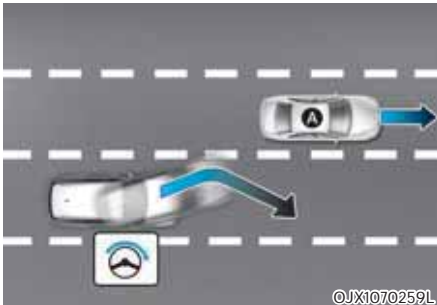
Lane-Change Oncoming function (if equipped)



[A] : Oncoming vehicle

Lane-Change Oncoming function will help avoid a collision with an oncoming vehicle when changing lanes by assisting the driver's steering.

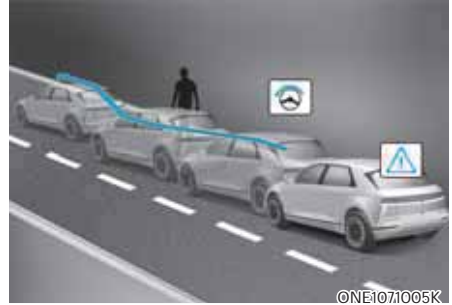
Lane-Change Side function (if equipped)



[A] : Front-side vehicle

Lane-Change Side function will help avoid a collision with the vehicle 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 will help avoid a collision with a vehicle, 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 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.

Detecting sensor



[1]: Front view camera, [2]: Front radar,
[3]: Front corner radar (if equipped),
[4]: Rear corner radar (if equipped)

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

CAUTION

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

- Never disassemble the detecting sensor or sensor assembly, or apply any impact on it.
- If the detecting sensors have been replaced or repaired, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.
- Never install any accessories or stickers on the front windshield, or tint the front windshield.
- Pay 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 place objects or mount structures near the windshield. When operating the air conditioner, moisture and defrost performance may be poor, and driver assistance functions may not work.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front radar cover.
- 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 unnecessary force has been applied to the radar or around the radar, Forward Collision-Avoidance Assist may not properly operate even though a warning message does not appear on the cluster. We recommend that the 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 front corner radar and/or rear corner radar
 - Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front corner radar or rear corner radar.
 - The function may not work properly when the bumper has been replaced, or the surroundings of the front corner radar or rear corner radar has been damaged or paint has been applied.
 - If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Forward Collision-Avoidance Assist may not operate properly.

Forward Collision-Avoidance Assist settings


Setting features




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Forward Safety

With the vehicle on, select or deselect 'Driver Assistance → Forward Safety' from the Settings menu to set whether or not to use each function.

- If 'Active Assist' is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message, an audible warning and steering wheel vibration depending on the collision risk levels. Braking assist or steering assist (if equipped) will be applied depending on the collision risk.
- If 'Warning Only' is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message, an audible warning and steering wheel vibration depending on the collision risk levels. Braking and steering (if equipped) will not be assisted. The driver must apply the brake pedal or steer the vehicle if necessary.
- If 'Off' is selected, Forward Collision-Avoidance Assist will turn off. The  warning light will illuminate on the cluster.

The driver can monitor Forward Collision-Avoidance Assist ON/OFF status from the Settings menu. If the  warning light remains ON when Forward Collision-Avoidance Assist is ON, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



Forward Cross-Traffic Safety (if equipped)

With the vehicle on, select 'Driver Assistance → Forward Safety → Forward Cross-Traffic Safety' from the Settings menu to turn on Junction Crossing function and deselect to turn off the function.

WARNING

When the vehicle is restarted, Forward Collision-Avoidance Assist will always turn on. However, if 'Off' is selected, the driver should always be aware of the surroundings and drive safely.


CAUTION

- If 'Warning Only' is selected, braking and steering (if equipped) is not assisted.
- The settings for Forward Safety include 'Basic function' and 'Junction Turning', 'Lane-Change Oncoming', 'Lane-Change Side' and 'Evasive Steering Assist' (if equipped).
- If Forward Safety is set to 'Off', Junction Crossing function will not operate even when 'Forward Cross-Traffic Safety' (if equipped) is selected.
- Steering wheel vibration can be turned on or off. Select or deselect 'Driver Assistance → Haptic Warning' from the Settings menu.

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.

Information

Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button. The  warning light will illuminate on the cluster.



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Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Forward Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



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Warning Volume

With the vehicle on, select 'Driver Assistance → Warning Volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Forward Collision-Avoidance Assist.

However, even if 'Off' is selected, the Warning Volume of Forward Collision Avoidance Assist will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.



CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of Forward Collision-Avoidance Assist.
- Even though 'Normal' is selected for Warning Timing, if the front vehicle suddenly stops, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.



Information

If the vehicle is restarted, Warning Timing and Warning Volume will maintain the last setting.

Forward Collision-Avoidance Assist operation

Basic function

Warning and control

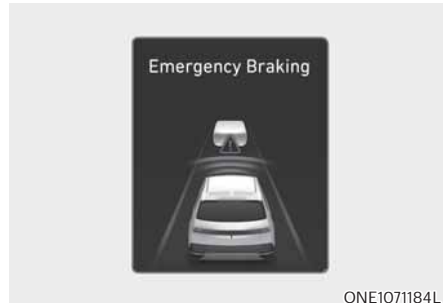
The basic function for Forward Collision-Avoidance Assist is to warn and control the vehicle depending on the collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



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Collision Warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- If a vehicle is detected in front, the function will operate when your vehicle speed is between approximately 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 approximately 10~85 km/h (6~53 mph).
- If 'Active Assist' is selected, braking may be assisted.



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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 and the steering wheel will vibrate.
- If a vehicle is detected in front, the function will operate when your vehicle speed is between approximately 10~75 km/h (6~47 mph).
- If Forward Collision-Avoidance Assist judges that avoiding a collision is difficult even by changing the driving lane, the function will operate when your vehicle speed is between approximately 10~100 km/h (6~62 mph) (if equipped with front corner radar).
The function operation range may decrease due to the front traffic condition or the surroundings of the vehicle.
- If a pedestrian or cyclist is detected in front, the function will operate when your vehicle speed is between approximately 10~65 km/h (6~40 mph).
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the vehicle, pedestrian or cyclist ahead.



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.

Junction Turning function (if equipped)

Warning and control

Junction Turning 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, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the oncoming vehicle speed is between approximately 30~70 km/h (19~44 mph).
- If 'Active Assist' is selected, braking may be assisted.



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 and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the oncoming vehicle speed is between approximately 30~70 km/h (19~44 mph).
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the oncoming vehicle.

i Information

If the driver's seat is on the left side, Junction Turning function will operate only when the driver turns left. If the driver's seat position is on right side, the function will operate only when you turn right.



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.

Junction Crossing function (if equipped)

Warning and control

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, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the crossing vehicle speed is between approximately 10~60 km/h (6~37 mph).
- If 'Active Assist' and 'Forward Cross-Traffic Safety' are selected, braking may be assisted.



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 and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the crossing vehicle speed is between approximately 10~20 km/h (6~12 mph).
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the crossing vehicle.



Stopping vehicle and ending brake control

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

 **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.

Lane-Change Oncoming function (if equipped)

Warning and control

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 cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 40-145 km/h (25-90 mph) and the oncoming vehicle speed is approximately above 10 km/h (6 mph) and the relative speed with your vehicle is approximately below 200 km/h (124 mph).



Emergency Steering

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

Lane-Change Side function (if equipped)

Warning and control

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, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 40~145 km/h (25~90 mph).



Emergency Steering

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

CAUTION

Lane-Change Side function does not operate if the vehicle speed of the oncoming vehicle from the front side is 0 km/h (0 mph).

Evasive Steering Assist function (if equipped)

Warning and control

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, the 'Emergency Steering' message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 40-85 km/h (25-53 mph).
- If there is a risk of collision with a vehicle, pedestrian and cyclist in front, the steering will be assisted to help prevent collision when the driver steers the vehicle to avoid collision.



Emergency Steering (Evasive steering assist)

- To warn the driver that emergency steering will be assisted, the 'Emergency Steering' message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate.
- The function will operate when your vehicle speed is between approximately 65~75 km/h (40~47 mph).
- If there is high risk of collision with a pedestrian and cyclist in front, and the vehicle speed to operate emergency braking is within the operation range, the steering will be assisted to help prevent collision when there is space to avoid collision in the driving lane.



CAUTION

- The steering wheel may turn automatically when emergency steering is operating.
- Emergency steering will automatically cancel when risk factors disappear. 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, pedestrian and cyclist, Evasive steering assist will be canceled if collisions with other objects (vehicles, pedestrians, or cyclists) are expected.
- Evasive steering assist may not operate if space to avoid collision in the driving lane is insufficient.



Information

For more details on warning messages, refer to Collision Warning in "Basic Function".



Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.



WARNING

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

- For your safety, change the Settings after parking the vehicle at a safe location.
- With 'Active Assist' or 'Warning Only' selected, when ESC is turned off by pressing and holding the ESC OFF button, Forward Collision-Avoidance Assist will turn off automatically. In this case, Forward Collision-Avoidance Assist cannot be set from the Settings menu and the warning light will illuminate on the cluster which is normal. If ESC is turned on by pressing the ESC OFF button, Forward Collision-Avoidance Assist will maintain the last setting.
- Forward Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- The driver should hold 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 is displayed or audible warning is generated, Forward Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- Forward Collision-Avoidance Assist may turn off or may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.



WARNING

- Even if there is a problem with Forward Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- During emergency braking, braking control by Forward Collision-Avoidance Assist will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.



CAUTION

- Depending on the condition of the vehicle, 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, driving direction, speed and surroundings.
- When a collision with a surrounding vehicle is expected, Lane-Change Oncoming, Lane-Change Side and Evasive Steering Assist functions will only warn the driver (if equipped).



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 from the instrument cluster.**

Forward Collision-Avoidance Assist malfunction and limitations

Forward Collision-Avoidance Assist malfunction





When Forward Collision-Avoidance Assist is not working properly, the 'Check Forward Safety' warning message will appear, and the  and  warning lights will illuminate on the cluster. We recommend that the 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 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 'Forward Safety system disabled. Camera obscured' or the 'Forward Safety system disabled. Radar blocked' warning message, and the  and  warning lights will illuminate on the cluster.

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

If Forward Collision-Avoidance Assist does not operate normally after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), we recommend that the vehicle be inspected by an 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 substance are not detected after turning ON the vehicle.

Limitations of Forward Collision-Avoidance Assist

Forward Collision-Avoidance Assist may not operate normally, 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 vehicle is reflected on the wet road surface, such as a puddle on the road
- An object is placed on the dashboard

- Your vehicle is being towed
- The surrounding is very bright
- 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 headlamps are not on or are not bright
- Driving through steam, smoke or shadow
- Only part of the vehicle, pedestrian or cyclist is detected
- The vehicle / Object in front is a bus, heavy truck, truck with a unusually shaped luggage, trailer, animal, etc.
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lamps are not on or are not bright
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's ground clearance is low or high
- A vehicle, 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 large 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 in front is detected late
- The vehicle in front is suddenly blocked by an obstacle / barricade
- 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
- The vehicle in front steers in the opposite direction of your vehicle to avoid a collision
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- You are departing or returning to the lane
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- The vehicle in front has an unusual shape
- The vehicle in front is driving uphill or downhill
- The pedestrian or cyclist is not fully detected, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian or cyclist is wearing clothing or equipment that makes it difficult to detect as a pedestrian or cyclist



The illustration above shows the image the front view camera and front radar will detect as a vehicle, pedestrian and cyclist.

- The pedestrian or cyclist in front is moving very quickly
 - The pedestrian or cyclist in front is short or is posing a low posture
 - The pedestrian or cyclist in front has impaired mobility
 - The pedestrian or cyclist in front is moving intersected with the driving direction
 - There is a group of pedestrians, cyclists or a large crowd in front
 - The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
 - The pedestrian or cyclist is difficult to distinguish from the similar shaped structure in the surroundings
- You are driving by a pedestrian, cyclist, traffic signs, structures, etc., near the intersection
 - Driving in a parking lot
 - Driving through a 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 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 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 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



WARNING

- Driving on a curved road



OADAS014



OADAS016



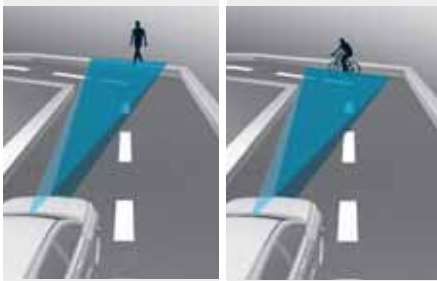
OADAS018

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

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



OADAS015



OADAS017

OADAS019

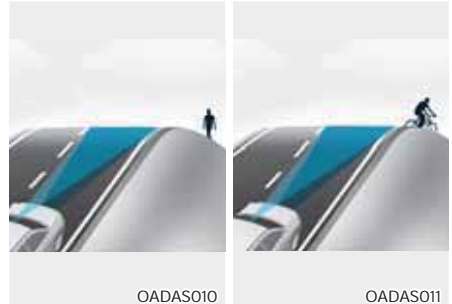
Forward Collision-Avoidance Assist may detect a vehicle, pedestrian or cyclist in the next lane or outside the lane when driving on a curved road.

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

- Driving on a sloped road



OADAS012



OADAS010

OADAS011

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

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

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

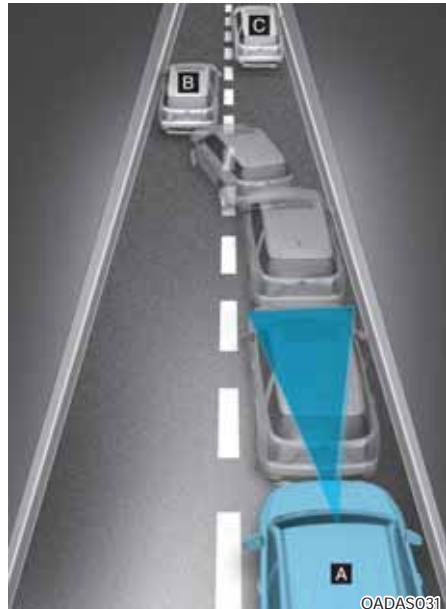
Always have your eyes on the road while driving uphill or downhill and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Changing lanes



[A] : Your vehicle, [B] : Lane changing vehicle

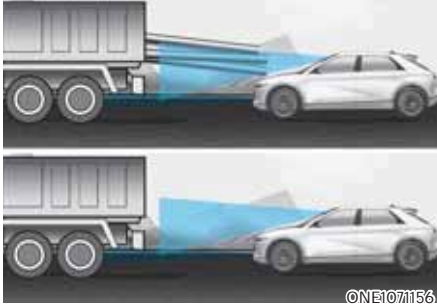
When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Forward Collision-Avoidance Assist may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking 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 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, we recommend that Forward Collision-Avoidance Assist is turned off due to safety reasons.
- Forward Collision-Avoidance Assist may operate if objects that are similar in shape or characteristics to vehicles, pedestrians and cyclists are detected.
- Forward Collision-Avoidance Assist does not operate on bicycles, motorcycles, or smaller wheeled objects, such as luggage bags, shopping carts, or strollers.
- Forward Collision-Avoidance Assist may not operate normally 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.

LANE KEEPING ASSIST (LKA) (IF EQUIPPED)

Lane Keeping Assist is designed to help detect lane markings (or road edges) while driving over a certain speed. Lane Keeping Assist will warn the driver if the vehicle leaves the lane without using the turn signal, or will automatically assist the driver's steering to help prevent the vehicle from departing the lane.

Detecting sensor



[1] : Front view camera

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

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

CAUTION


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

Lane Keeping Assist settings Setting features



Lane Safety

With the vehicle on, select or deselect ‘Driver Assistance → Lane Safety’ from the Settings menu to set whether or not to use each function.

- If ‘Assist’ is selected, Lane Keeping Assist will automatically assist the driver’s steering when lane departure is detected to help prevent the vehicle from moving out of its lane.
- If ‘Warning Only’ is selected, Lane Keeping Assist will warn the driver with an audible warning and steering wheel vibration when lane departure is detected. The driver must steer the vehicle.
- If ‘Off’ is selected, Lane Keeping Assist will turn off. The  indicator light will turn off on the cluster.

WARNING

- If ‘Warning Only’ is selected, steering is not assisted.
- 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 and steer the vehicle if ‘Off’ is selected.

Turning Lane Keeping Assist On/Off



- Except Europe, Australia, Russia
With the vehicle on, press and hold the Lane Driving Assist button located on the steering wheel to turn on Lane Keeping Assist. The grey  indicator light will illuminate on the cluster.
Press and hold the button again to turn off the function.
If the vehicle is restarted, Lane Keeping Assist will maintain the last setting.
- For Europe, Australia, Russia
Whenever the vehicle is turned on, Lane Keeping Assist will always turn on. The grey  indicator light will illuminate on the cluster.
When Lane Keeping Assist is on, press and hold the Lane Driving Assist button to turn off the function.

Information

- **When the Lane Driving Assist button is pressed shortly, Lane Following Assist will turn on and off.**
- **When Lane Keeping Assist is turned off with the Lane Driving Assist button, the Lane Safety setting also changes to 'Off'.**



Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Lane Keeping Assist.

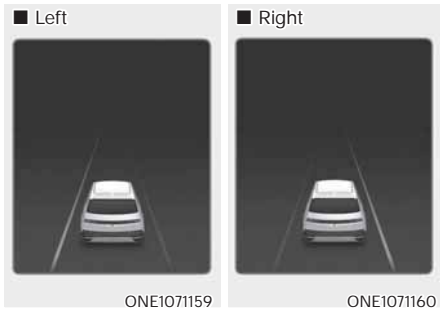
However, even if 'Off' is selected, the Hands-off Warning Volume will not be turned off. Steering wheel vibration function will also remain on even if 'Off' is selected.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may be changed.

Lane Keeping Assist operation

Warning and control

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

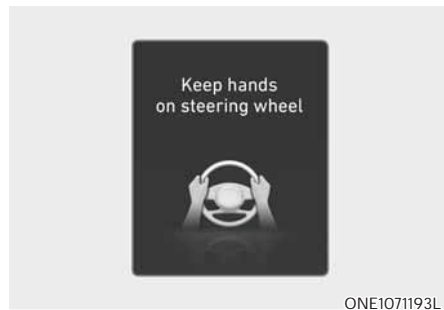


Lane Departure Warning

- To warn the driver that the vehicle is departing from the projected lane in front, the green indicator light will blink on the cluster, the lane line will blink on the cluster depending on which direction the vehicle is veering, and an audible warning will sound. Also, the steering wheel will vibrate.
- Lane Keeping Assist will operate when your vehicle speed is between approximately 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 will blink on the cluster, and the steering wheel will make adjustments to keep vehicle inside the lane.
- Lane Keeping Assist will operate when your vehicle speed is between approximately 60–200 km/h (40–120 mph).



Hands-off warning

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




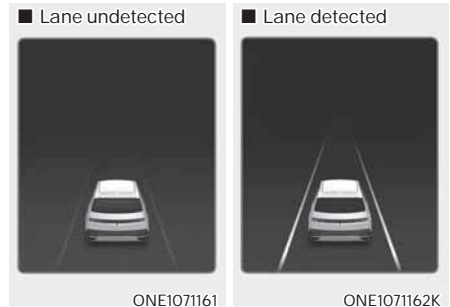
WARNING

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



Information

- For more details on setting the functions in the infotainment system, refer to “Vehicle Settings” section in chapter 4.
- When lane markings (or road edges) are detected, the lane lines on the cluster will change from grey to white and the green  indicator light will illuminate.
- When the lane markings (or road edges) are detected and Highway Lane Change Assist is on, the lane lines on the cluster may change to green.



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




Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Lane Keeping Assist malfunction and limitations

Lane Keeping Assist malfunction



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

Limitations of Lane Keeping Assist

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

- The lane is contaminated or difficult to distinguish because,
 - The lane markings (or road edge) is 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 looks 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 number of lanes change or the lanes merge
- 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)

Information

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



WARNING

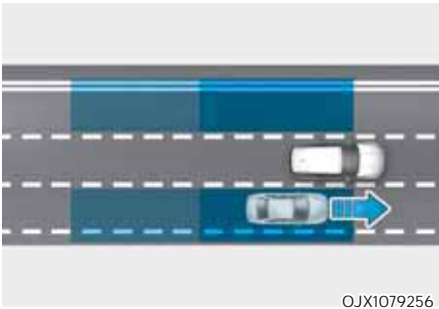
Take the following precautions when using Lane Keeping Assist:

- The driver should hold 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 cancelled 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, we recommend that Lane Keeping Assist is turned off due to safety reasons.
 - If the vehicle is driven at high speed, the steering wheel will not be controlled. The driver must always follow the speed limit when using Lane Keeping Assist.
 - If any other system's warning message is displayed or audible warning is generated, Lane Keeping Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Lane Keeping Assist if the surrounding is noisy.
 - If you attach objects to the steering wheel, steering may not be assisted properly.
 - Lane Keeping Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.
 - Lane Keeping Assist will not operate when:
 - The turn signal or hazard warning flasher is turned on.
 - The vehicle is not driven in the center of the lane when Lane Keeping Assist is turned on or right after changing a lane.
 - ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated.
 - The vehicle is driven on a sharp curve.
 - Vehicle speed is below 55 km/h (35 mph) or above 210 km/h (130 mph).
 - The vehicle makes sharp lane changes.
 - The vehicle brakes suddenly.

BLIND-SPOT COLLISION-AVOIDANCE ASSIST (BCA) (IF EQUIPPED)

Blind-Spot Collision-Avoidance Assist is designed to help detect and monitor approaching vehicles in the driver's blind spot area and warn the driver of a possible collision with a warning message and audible warning.

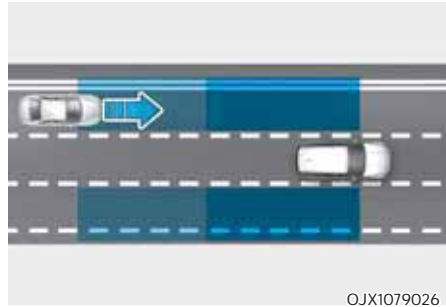
In addition, if there is a risk of collision when changing lanes or driving forward out of a parking space, Blind-Spot Collision-Avoidance Assist will help avoid collision by applying the brake.



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

CAUTION

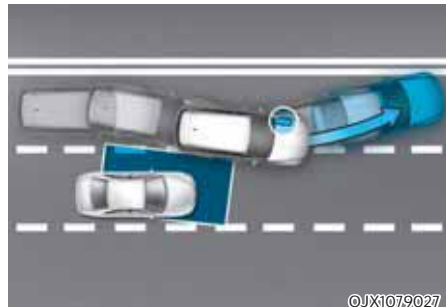
The detecting range may vary depending on the speed of your vehicle. However, even if there is a vehicle in the blind spot area, Blind-Spot Collision-Avoidance Assist may not warn you when you pass by at high speeds.



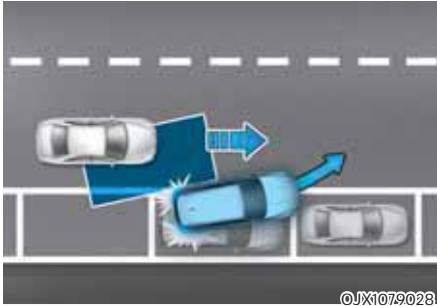
Blind-Spot Collision-Avoidance Assist helps detect and inform the driver that a vehicle is approaching at high speed from the blind spot area.

CAUTION

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



When changing lanes by detecting the lane ahead, if Blind-Spot Collision-Avoidance Assist judges that there is a collision risk with an approaching vehicle in the blind spot, it will help avoid collision by applying the brake.



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 will help avoid collision by applying the brake.

Detecting sensor



[1] : Front view camera, [2] : 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:

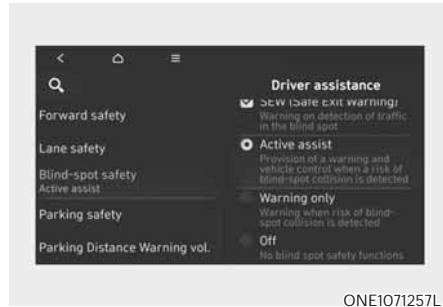
- Never disassemble the rear corner radar or radar assembly, or apply any impact on it.
- If there is impact on the rear corner radar or near the radar, even though the warning message does not appear on the cluster, Blind-Spot Collision-Avoidance Assist system may not operate properly. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

- If the rear corner radars have been replaced or repaired, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.
- 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 has been damaged or paint has been applied.
- If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision-Avoidance Assist may not operate.

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

Blind-Spot Collision-Avoidance Assist settings

Setting features



ONE1071257L

Blind-Spot Safety

With the vehicle on, select or deselect 'Driver Assistance → Blind-Spot Safety' from the Settings menu to set whether or not to use each function.

- If 'Active Assist' (or 'SEW (Safe Exit Warning)') is selected, Blind-Spot Collision-Avoidance Assist will warn the driver with a warning message, an audible warning, steering wheel vibration and braking assist will be applied depending on the collision risk levels.
- If 'Warning Only' is selected, Blind-Spot Collision-Avoidance Assist will warn the driver with a warning message, an audible warning and steering wheel vibration depending on the collision risk levels. Braking will not be assisted.
- If 'Off' is selected, Blind-Spot Collision-Avoidance Assist will turn off.



OTM070097N

When the vehicle is restarted with Blind-Spot Collision-Avoidance Assist off, the 'Blind-Spot Safety System is Off' message will appear on the cluster.

If you change the setting from 'Off' to 'Active Assist' or 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

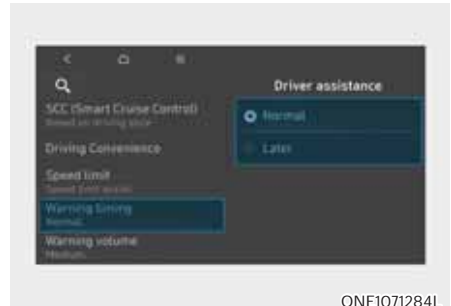
In addition, if the vehicle is turned on, when Blind-Spot Collision-Avoidance Assist is set to 'Active Assist' or 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

WARNING

- If 'Warning Only' is selected, braking is not assisted.
- If 'Off' is selected, the driver should always be aware of the surroundings and drive safely.

Information

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

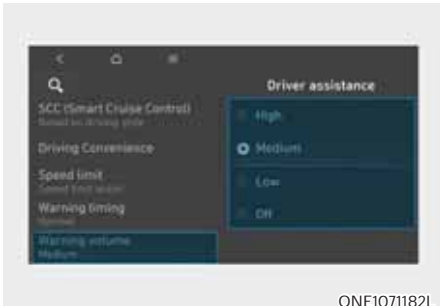


ONE1071284L

Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Blind-Spot Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



ONE1071182L

Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Blind-Spot Collision-Avoidance Assist.

However, when Warning Volume is turned Off, the steering wheel vibration function will turn on if it was turned Off.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of Blind-Spot Collision-Avoidance Assist.
- Even though 'Normal' is selected for Warning Timing, if the vehicles approaches at high speed, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

Blind-Spot Safety system operation

Warning and control



ONE1071248K

Vehicle detection

- To warn the driver a vehicle is detected, the warning light on the outside rearview mirror and head-up display (if equipped) will illuminate.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is above 20 km/h (12 mph) and the speed of the vehicle in the blind spot area is above 10 km/h (7 mph).

Collision Warning

- Collision warning will operate when the turn signal is turned on in the direction of the detected vehicle.
- If 'Warning Only' is selected from the Settings menu, the collision warning will operate when your vehicle approaches the lane the blind spot vehicle is detected.
- To warn the driver of a collision, the warning light on the outside rearview mirror and head-up display (if equipped) will blink. At the same time, an audible warning will sound and the steering wheel will vibrate.
- When the turn signal is turned off or you move away from the lane, the collision warning will be canceled and Blind-Spot Collision-Avoidance Assist will return to vehicle detection state.



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 in the next next lane 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 from the instrument cluster.**



Collision-Avoidance Assist (while driving)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the cluster. At the same time, an audible warning will sound, warning light on the head-up display (if equipped) will blink and the steering wheel will vibrate.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is between 60~200 km/h (40~120 mph) and both lane markings of the driving lane are detected.
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.

 **WARNING**

- 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 Blind-Spot Collision-Avoidance Assist operation or changing lane, you must drive to the center of the lane. Blind-Spot Collision-Avoidance Assist will not operate if the vehicle is not driven in the center of the lane.



Collision-Avoidance Assist (while departing)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the cluster. At the same time, an audible warning will sound, warning light on the head-up display (if equipped) will blink and the steering wheel will vibrate.
- 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).
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.



- 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.



WARNING

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

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Blind-Spot Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Collision-Avoidance Assist if the surrounding is noisy.
- Blind-Spot Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.
- When Blind-Spot Collision-Avoidance Assist is operating, braking control by the system will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.
- During Blind-Spot Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Blind-Spot Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- Blind-Spot Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.

- Blind-Spot Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- Driver should maintain control of the vehicle at all times. Do not depend on Blind-Spot Collision-Avoidance Assist. Maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never operate Blind-Spot Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.



WARNING

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

There will only be a warning when:

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



Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

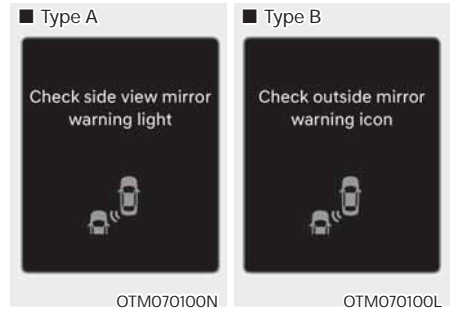
Blind-Spot Collision-Avoidance Assist malfunction and limitations

Blind-Spot Collision-Avoidance Assist malfunction



OTM070099L

When Blind-Spot Collision-Avoidance Assist is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



OTM070100N

OTM070100L

When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the 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 'Blind-spot safety system disabled. Radar blocked' warning message will appear on the cluster.

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

If Blind-Spot Collision-Avoidance Assist does not operate normally after it is removed, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the cluster, Blind-Spot Collision-Avoidance Assist may not properly operate.
- Blind-Spot Collision-Avoidance Assist may not properly operate in an area (e.g. open terrain) where any substance 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 a trailer, carrier, etc., or remove the trailer, carrier, etc., to use Blind-Spot Collision-Avoidance Assist.

Limitations of Blind-Spot Collision-Avoidance Assist

Blind-Spot Collision-Avoidance Assist may not operate normally, or Blind-Spot Collision-Avoidance Assist 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 (or motorway) 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 large 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 or carrier 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 normally, 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

Information

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



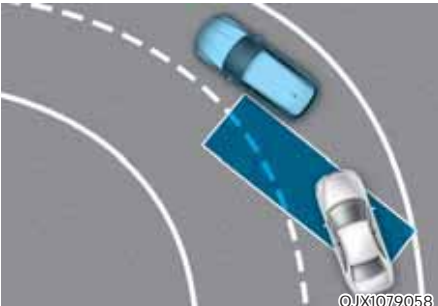
WARNING

- 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.

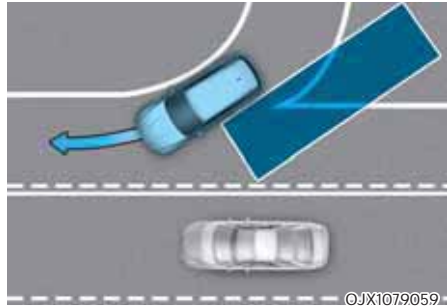
Always pay attention to road and driving conditions while driving.



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.

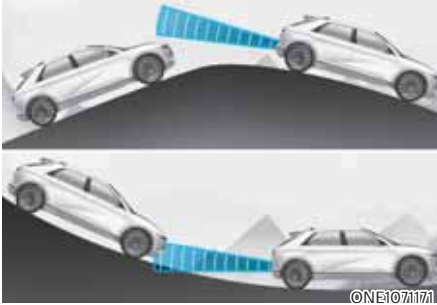
- Driving where the road is merging/dividing



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.

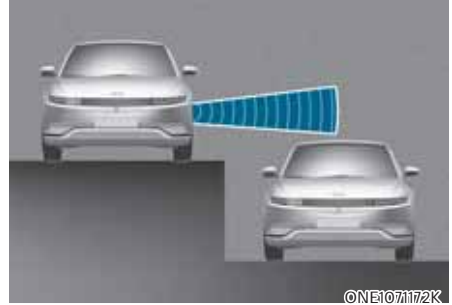
- Driving on a sloped road



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 heights of the lanes are different



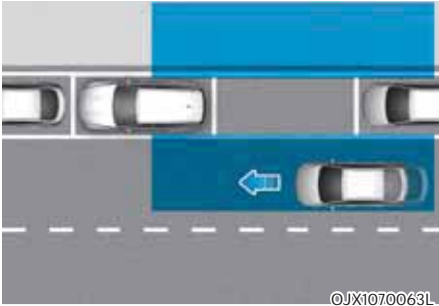
Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

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 normally if interfered by strong electromagnetic waves.
- Blind-Spot Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera or rear corner radars are initialized.

SAFE EXIT WARNING (SEW) (IF EQUIPPED)



After the vehicle stops, when an approaching vehicle from the rear area is detected as soon as a passenger opens a door, Safe Exit Warning will warn the driver with a warning message and an audible warning to help prevent a collision.

CAUTION

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

Detecting sensor



[1] : Rear corner radar

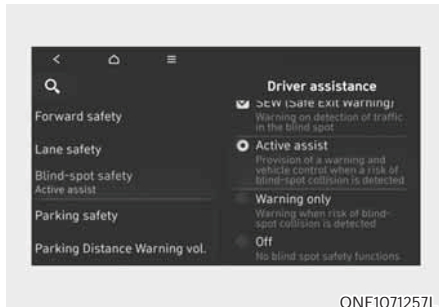
Refer to the picture above for the detailed location of the detecting sensors.

CAUTION

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

Safe Exit Warning settings

Setting features



Safe Exit Warning

With the vehicle on, select 'Driver Assistance → Blind-Spot Safety → Safe Exit Warning' from the Settings menu to turn on Safe Exit Warning and deselect to turn off the function.



WARNING

The driver should always be aware of unexpected and sudden situations from occurring. If 'Safe Exit Warning' is deselected, Safe Exit Warning cannot assist you.



Information

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



Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Safe Exit Warning.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



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Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Safe Exit Warning.

However, even if 'Off' is selected, the Warning Volume of Safe Exit Warning will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

CAUTION

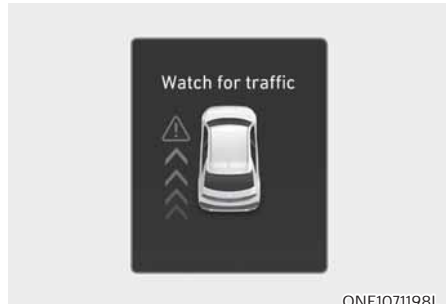
- The setting of the Warning Timing and Warning Volume applies to all functions of the Safe Exit Warning.
- Even though 'Normal' is selected for Warning Timing, if the vehicles approaches at high speed from the rear, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

Safe Exit Warning operation

Safe Exit Warning



ONE1071248K



ONE1071198L

Collision warning when exiting vehicle

- When an approaching vehicle from the rear is detected at the moment a door is opened, the 'Watch for traffic' 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 is displayed or audible warning is generated, Safe Exit Warning's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Warning if the 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.
- Never deliberately operate Safe Exit Warning. Doing so may lead to serious injury or death.
- Safe Exit Warning does not operate if there is a problem with Blind-Spot Collision-Avoidance Assist. The warning message of Blind-Spot Collision-Avoidance Assist will appear when:
 - Blind-Spot Collision-Avoidance Assist sensor or the sensor surrounding is polluted or covered
 - Blind-Spot Collision-Avoidance Assist fails to warn passengers or falsely warn passengers



Information

After the vehicle is turned off, Safe Exit Warning operates approximately for 3 minutes, but turns off immediately if the doors are locked.



Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Safe Exit Warning malfunction and limitations

Safe Exit Warning malfunction



OTM070099N

When Safe Exit Warning is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



OTM070100N

When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit Warning disabled



OTM070098N

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

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

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

If Safe Exit Warning does not operate normally after it is removed, we recommend that the 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 substance 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 a trailer, carrier, etc., or remove the trailer, carrier, etc., to use Safe Exit Warning.

Limitations of Safe Exit Warning

Safe Exit Warning may not operate normally, 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

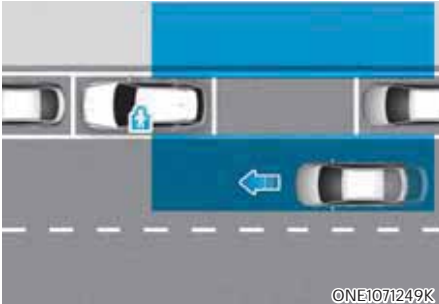
For more details on the limitations of the rear corner radar, refer to “Blind- Spot Collision-Avoidance Assist (BCA)” section in this chapter.



WARNING

- Safe Exit Warning may not operate normally if interfered by strong electromagnetic waves.
- Safe Exit Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.

SAFE EXIT ASSIST (SEA) (IF EQUIPPED)



After the vehicle stops, when an approaching vehicle from the rear area is detected as soon as a passenger opens a door, Safe Exit Assist will warn the driver with a warning message and an audible warning to help prevent a collision.



In addition, 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.

Detecting sensor



[1] : Rear corner radar

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

CAUTION

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

Safe Exit Assist settings

Setting features



Safe Exit Assist

With the vehicle on, select 'Driver Assistance → Blind-Spot Safety → Safe Exit Assist' from the Settings menu to turn on Safe Exit Assist and deselect to turn off the function.



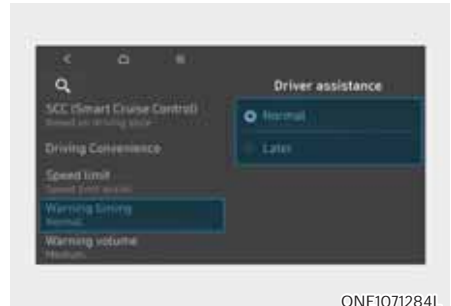
WARNING

The driver should always be aware of unexpected and sudden situations from occurring. If 'Safe Exit Assist' is deselected, Safe Exit Assist cannot assist you.



Information

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



Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Safe Exit Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume 'High', 'Medium', 'Low' or 'Off' for Safe Exit Assist.

However, even if 'Off' is selected, the Warning Volume of Safe Exit Assist will not turn off but the volume will sound as 'Low'.

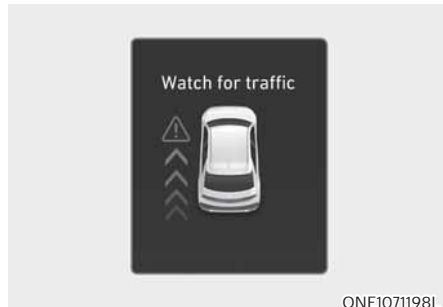
If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of the Safe Exit Assist.
- Even though 'Normal' is selected for Warning Timing, if the vehicles approaches at high speed from the rear, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and driving speed is slow.

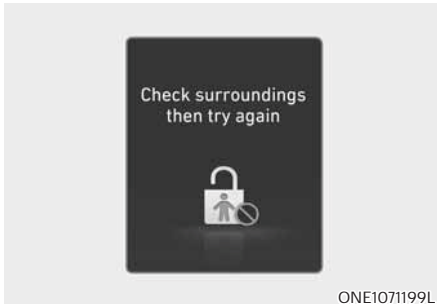
Safe Exit Assist operation

Warning and control



Collision warning when exiting vehicle

- When an approaching vehicle from the rear is detected at the moment a door is opened, the 'Watch for traffic' warning message will appear on the cluster, and an audible warning will sound.
- Safe Exit Assist 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 outside rearview mirror will blink and the 'Check surroundings then try again' warning message will appear on the 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).
- For more details on electric child safety lock button, refer to "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.



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 is displayed or audible warning is generated, Safe Exit Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Assist if the surrounding is noisy.
- Safe Exit Assist does not operate in all situations or 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 accidents that occurs while exiting the vehicle. Always check the surroundings before you exit the vehicle.
- Never deliberately operate Safe Exit Assist. Doing so may lead to serious injury or death.
- Safe Exit Assist does not operate if there is a problem with Blind-Spot Collision-Avoidance Assist. The warning message of Blind-Spot Collision-Avoidance Assist will appear when:
 - Blind-Spot Collision-Avoidance Assist sensor or the sensor surrounding is polluted or covered
 - Blind-Spot Collision-Avoidance Assist fails to warn passengers or falsely warn passengers

i Information

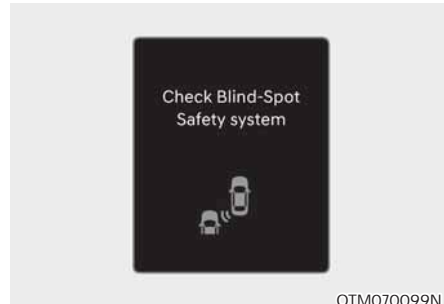
After the vehicle is turned off, Safe Exit Assist operates approximately for 3 minutes, but turns off immediately if the doors are locked.

i Information

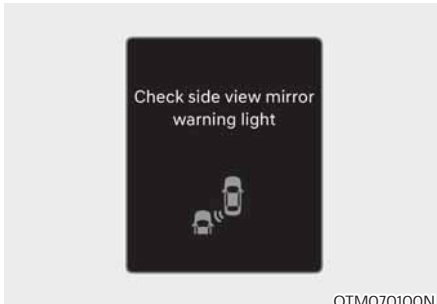
The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Safe Exit Assist malfunction and limitations

Safe Exit Assist malfunction



When Safe Exit Assist is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



OTM070100N

When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit Assist disabled



OTM070098N

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 'Blind-Spot Safety system disabled. Radar blocked' warning message will appear on the cluster.

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

If Safe Exit Assist does not operate normally after it is removed, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



WARNING

- Even though the warning message does not appear on the cluster, Safe Exit Assist may not properly operate.
- Safe Exit Assist may not properly operate in an area (for example, open terrain) where any substance 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.



WARNING

- Safe Exit Assist may not operate normally if interfered by strong electromagnetic waves.
- Safe Exit Assist may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.



CAUTION

Turn off Safe Exit Assist to install a trailer, carrier, etc., or remove the trailer, carrier, etc., to use Safe Exit Assist.

Limitations of Safe Exit Assist

Safe Exit Assist may not operate normally, 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 details on the limitations of the rear corner radar, refer to “Blind- Spot Collision-Avoidance Assist (BCA)” section in this chapter.

MANUAL SPEED LIMIT ASSIST (MSLA)



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

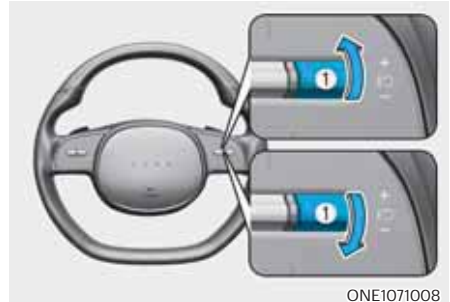
You can set the speed limit when you do not want to drive over a specific speed. If you drive over the preset speed limit, Manual Speed Limit Assist will operate (set speed limit will blink and chime will sound) until the vehicle speed returns within the speed limit.

Manual Speed Limit Assist operation

To set speed limit



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



2. Push the + switch (1) up or - switch (1) down, and release it at the desired speed.

Push the + switch (1) up or - switch (1) down and hold it. The speed will increase or decrease to the nearest multiple of ten (multiple of five in mph) at first, and then increase or decrease by 10 km/h (5 mph).



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

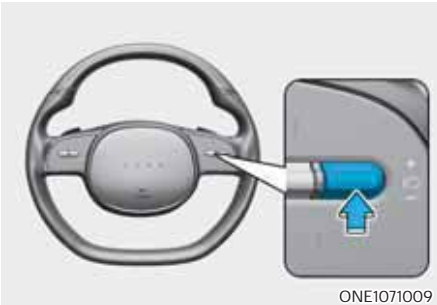
If you would like to drive over the preset speed limit, depress the accelerator pedal beyond the pressure point to activate the kickdown mechanism.

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

i Information

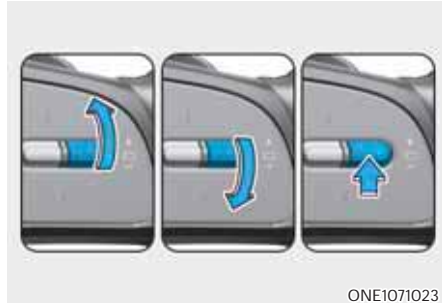
When the accelerator pedal is not depressed beyond the pressure point, vehicle speed will maintain within the speed limit.

To temporarily pause Manual Speed Limit Assist



Push the ||⊙ switch to temporarily pause the set speed limit. The set speed limit will turn off but the Speed Limit (S) LIMIT indicator will stay on.

To resume Manual Speed Limit Assist



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

If you push the + switch (1) up or - switch (1) down, vehicle speed will be set to the current speed on the cluster.

If you push the ||⊙ switch, vehicle speed will resume to the preset speed.

To turn off Manual Speed Limit Assist



Press the Driving Assist (🚗) button to turn Manual Speed Limit Assist off. The Speed Limit (🚗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 (🚗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 should always be aware of unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.

Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

DRIVER ATTENTION WARNING (DAW) (IF EQUIPPED)

Basic function

Driver Attention Warning will help determine the driver's attention level by analyzing driving pattern and driving time while vehicle is being driven. Driver Attention Warning will recommend a break when the driver's attention level falls below a certain level.

Leading vehicle departure alert function

Leading Vehicle Departure Alert function will inform the driver when the front vehicle departs from a stop.

Detecting sensor



[1]: Front view camera

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

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

CAUTION

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

Driver Attention Warning settings Setting features



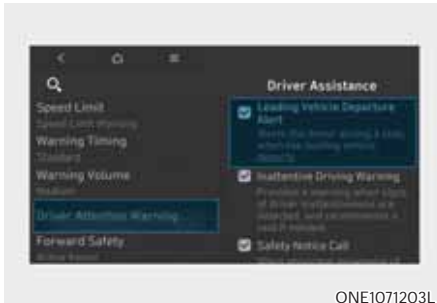
Driver Attention Warning

With the vehicle on, select or deselect 'Driver Assistance → Driver Attention Warning' from the Settings menu to set whether or not to use each function.

- If 'Inattentive Driving Warning' is selected, Driver Attention Warning will inform the driver the driver's attention level and will recommend taking a break when the level falls below a certain level.

Information

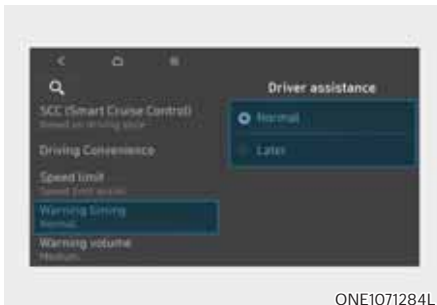
Whenever the vehicle is turned on, Inattentive Driving Warning will always turn on. (For Europe, Australia, Russia)



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Leading Vehicle Departure Alert

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



ONE1071284L

Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Driver Attention Warning.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



Information

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

Driver Attention Warning operation

Basic function

Display and warning

The basic function of Driver Attention Warning is to inform the driver the 'Attention Level' and to warn the driver 'Consider taking a break'.

Attention level



- The driver can monitor his/her driving conditions on the cluster.
 - When the 'Inattentive Driving Warning' is deselected from the Settings menu, 'System Off' is displayed.
 - Driver Attention Warning will operate when vehicle speed is between 0~210 km/h (0~130 mph).
 - When vehicle speed is not within the operating speed, the message 'Standby' (or 'Disabled') will be displayed.

- The driver's attention level is displayed on the scale of 1 to 5. The lower the level is, the more inattentive the driver is.
- The level decreases when the driver does not take a break for a certain period of time.

Taking a break



- The 'Consider taking a break' message will appear on the cluster and an audible warning will sound to suggest that the driver take a break, when the driver's attention level is below 1.
- Driver Attention Warning will not suggest a break when the total driving time is shorter than 10 minutes or 10 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 doesn't feel fatigued.
- Driver Attention Warning is a supplemental function and may not be able to determine whether the driver is inattentive.
- The driver who feels fatigued should take a break at a safe location, even though there is no break suggestion by Driver Attention Warning.

Information

- For more details on setting the functions in the infotainment system, refer to "Vehicle Settings" section in chapter 4.
- Driver Attention Warning will reset the last break time to 00:00 in the following situations:
 - The vehicle is turned off
 - The driver unfastens the seat belt and opens the driver's door
 - The vehicle is stopped for more than 10 minutes
- When the driver resets Driver Attention Warning, the last break time is set to 00:00 and the driver's attention level is set to High.

Leading Vehicle Departure Alert function



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

WARNING

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

CAUTION

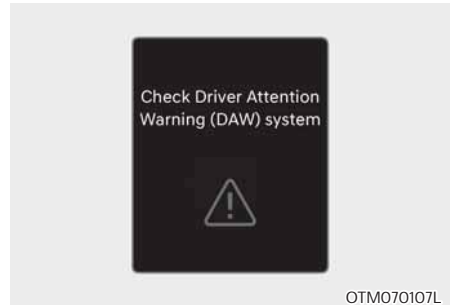
- Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.


Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Driver Attention Warning malfunction and limitations

Driver Attention Warning malfunction



When Driver Attention Warning is not working properly, the 'Check Driver Attention Warning (DAW) system' warning message will appear on the cluster for several seconds, and the master () warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

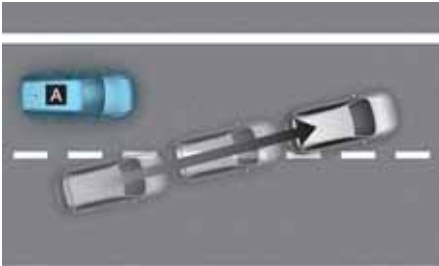
Limitations of Driver Attention Warning

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

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

Leading vehicle departure alert function

- When the vehicle cuts in



©ADAS021



©ADAS022

[A] : Your vehicle, [B] : Front vehicle

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

- When the vehicle ahead sharply steers

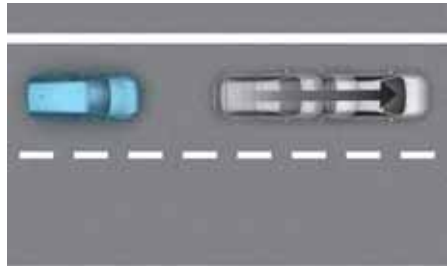


©ADAS034

[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



©ADAS024

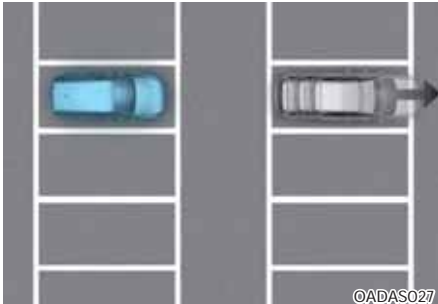
If the vehicle in front abruptly departs, Leading Vehicle Departure Alert may not operate properly.

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



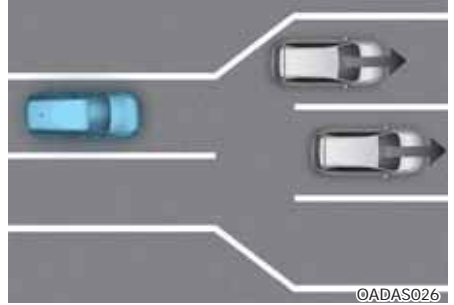
If there is a pedestrian(s) or bicycle(s) in between you and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

- 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.

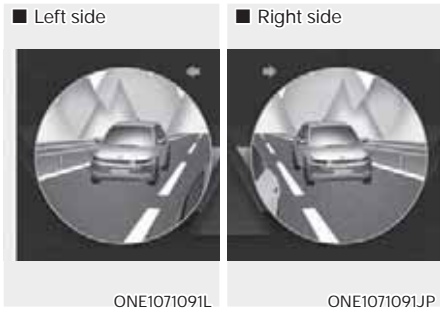


If you pass a tollgate or intersection with lots of vehicles or you drive where lanes are merged or divided frequently, Leading Vehicle Departure Alert may not operate properly.

i Information

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

BLIND-SPOT VIEW MONITOR (BVM) (IF EQUIPPED)



Blind-Spot View Monitor displays the rear blind spot area of the vehicle in the cluster when the turn signal is turned on to help safely change lanes.

Detecting sensor



[1], [2]: Surround-side view camera
(camera located at bottom of the mirror)

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

Blind-Spot View Monitor settings

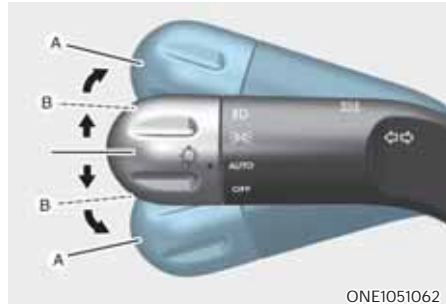
Setting features

Blind-Spot View

With the vehicle on, select 'Driver Assistance → Blind-Spot Safety → Blind-Spot View' from the Settings menu to turn on Blind-Spot View Monitor and deselect to turn off the function.

Blind-Spot View Monitor operation

Operating switch



Turn signal lever

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 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

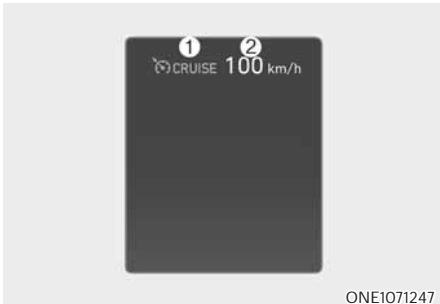
When Blind-Spot View Monitor is not working properly, or the cluster display flickers, or the camera image does not display normally, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.



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 normally.

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

Operating conditions

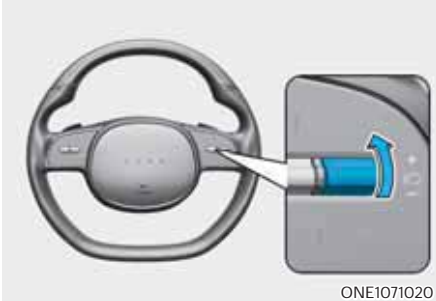
1. Accelerate to the desired speed, which must be more than 30 km/h (20 mph).



2. Press the Driving Assist (DRIVING ASSIST) button at the desired speed. The set speed and Cruise (CRUISE) indicator will illuminate on the cluster.
3. Release the accelerator pedal.
Vehicle speed will maintain the set speed even when the accelerator pedal is not depressed.

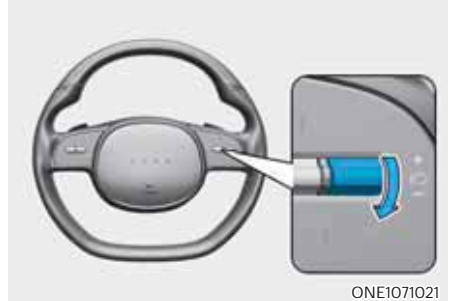
i Information

On a steep slope, the vehicle may slightly slow down or speed up while driving uphill or downhill.

To increase speed

- Push the + switch up and release it immediately. The cruising 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 cruising speed will increase to the nearest multiple of five in mph (multiple of ten) 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 cruising 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 cruising speed will decrease to the nearest multiple of five in mph (multiple of ten) 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.

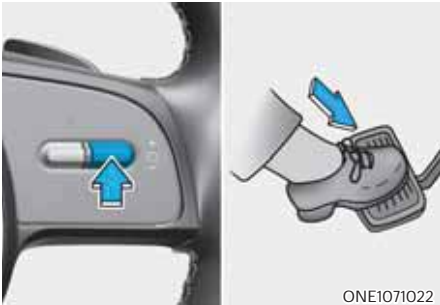
To temporarily accelerate

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 cruising speed will be set to the current increased speed.

To temporarily pause Cruise Control



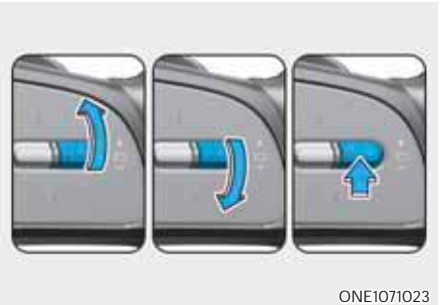
- Cruise Control will be paused when:
- Depressing the brake pedal.
 - Pushing the ||○ button.
 - Shifting the gear to N (Neutral).
 - Decreasing vehicle speed to less than approximately 30 km/h (20 mph).
 - Increasing vehicle speed to more than approximately 190 km/h (120 mph)
 - Operating the electronic 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.

To resume Cruise Control



Push the +, - switch or ||○ button. If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the cluster. If you push the ||○ button, vehicle speed will resume to the preset speed. Vehicle speed must be above 30 km/h (20 mph) for the function to resume.

WARNING
Check the driving condition before using the ||○ button. Driving speed may sharply increase or decrease when you press the ||○ button.

To turn off Cruise Control



Press the Driving Assist (🚦) button to turn Cruise Control off. The Cruise (🚦CRUISE) indicator will go off.

Always press the Driving 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 function 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 is designed to detect the vehicle ahead and help maintain the desired speed and minimum distance between the vehicle ahead.

Overtaking Acceleration Assist

While Smart Cruise Control is operating, if the function judges that the driver is determined to overtake the vehicle in front, acceleration will be assisted.

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



[1]: Front view camera, [2]: Front radar
[3] : Front corner radar

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

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



CAUTION

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

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

Smart Cruise Control settings

Setting features



To turn 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.

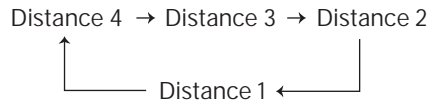
i Information

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



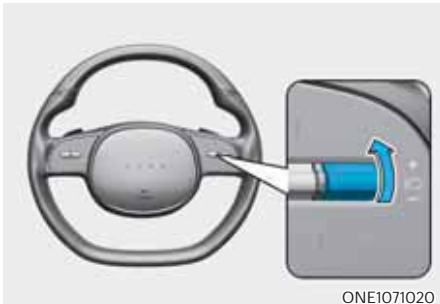
To set vehicle distance

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



i Information

- If you drive at 90 km/h (56 mph), the distance is maintained as follows:
 - Distance 4 -** approximately 52.5 m (172 ft.)
 - Distance 3 -** approximately 40 m (130 ft.)
 - Distance 2 -** approximately 32.5 m (106 ft.)
 - Distance 1 -** approximately 25 m (82 ft.)
- The distance is set to the last set distance when the vehicle is restarted, or when Smart Cruise Control was temporarily canceled.



To increase speed

- Push the + switch up and release it immediately. The cruising 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 cruising speed will increase by 10 km/h or 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 set the speed to 180 km/h (110 mph).

 **WARNING**

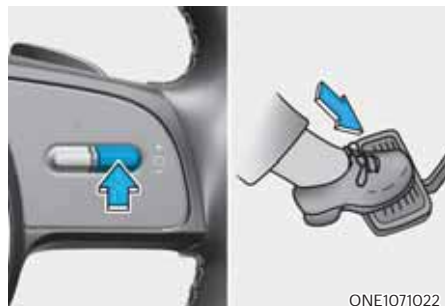
Check the driving condition before using the + switch. Driving speed may sharply increase when you push up and hold the + switch.



To decrease speed

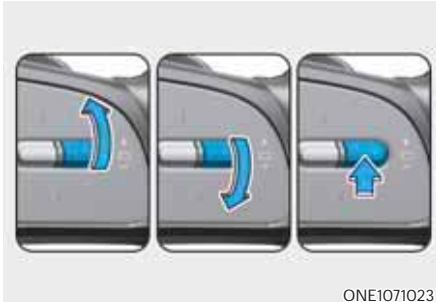
- Push the - switch down and release it immediately. The cruising speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the - switch down and hold it while monitoring the set speed on the cluster. The cruising speed will decrease by 10 km/h or 5 mph each time the switch is operated in this manner.

Release the switch at the speed you want to maintain. You can set the speed to 30 km/h (20 mph).



To temporarily cancel Smart Cruise Control

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



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To resume Smart Cruise Control

To resume Smart Cruise Control after the function was canceled, push the +, - or ||○ switch.

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

If you push the ||○ switch, vehicle speed will resume to the preset speed.



WARNING

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



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To turn off Smart Cruise Control

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

i Information

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

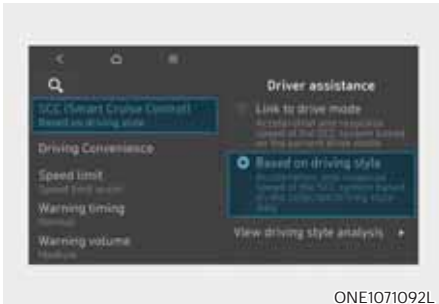
Based on Drive Mode

Smart Cruise Control will change acceleration based on the drive mode selected from Drive Mode Integrated Control system. Refer to the following chart.

Drive mode	Smart Cruise Control
SNOW	Normal
ECO	Slow
SPORT	Fast
NORMAL	Normal

i Information

- For more details on drive mode, refer to “Drive Mode Integrated Control System” section in chapter 6.
- Smart Cruise Control may not turn on or off in some of the drive modes for the operating conditions are not satisfied.
- If your vehicle is not equipped with Drive Mode Integrated Control system, Smart Cruise Control accelerates your vehicle at a normal level.



Based on Driving Style (if equipped)

- With the vehicle on, if 'Driver Assistance → Smart Cruise Control → Based on Driving Style' is selected from the Settings menu, Smart Cruise Control will operate based on the driver's driving style, such as vehicle distance, acceleration, reaction speed.
- While Smart Cruise Control is operating with 'Based on Drive Mode' selected, if you press and hold the Vehicle Distance (Ⓜ) button, Smart Cruise Control will change to 'Based on Driving Style'. While Smart Cruise Control is operating with 'Based on Driving Style', you press and hold the Vehicle Distance (Ⓜ) button, it will change to 'Based on Drive Mode'.

i Information

- **If equipped with Based on Driving Style, 'Based on Drive mode' and 'Based on Driving Style' can be selected from the settings menu by selecting 'Driver Assistance → Smart Cruise Control'.**
- **If 'Based on Drive mode' is selected, Smart Cruise Control will operate based on the drive mode selected.**



Driving Style Settings (if equipped)

With the vehicle on, select 'Driver Assistance → Smart Cruise Control → 'Driving Style Settings (or View driving style analysis)' from the Settings menu to check the driver's driving style, and to change each driving style manually.

i Information

- **'Driving Style Settings' (or 'View driving style analysis') is displayed when 'Based on Driving Style' is selected.**
- **Smart Cruise Control learns the driver's driving styles only when the driver drives the vehicle.**



Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume 'High', 'Medium' or 'Low' for Smart Cruise Control.

However, even if 'Off' is selected, the Warning Volume of Smart Cruise Control will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

i Information

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

Smart Cruise Control operation

Operating conditions

Smart Cruise Control will operate when the following conditions are satisfied.

Basic function

- The gear is in D (Drive)
- The driver's door is closed
- EPB (Electronic Parking Brake) is not applied
- Your vehicle speed is within the operating speed range
 - 10~180km/h (5~110mph): when there is no vehicle in front
 - 0~180km/h (0~110mph): when there is a vehicle in front
- ESC (Electronic Stability Control) or ABS is on
- ESC (Electronic Stability Control) or ABS is not controlling the vehicle
- Forward Collision-Avoidance Assist brake control is not operating
- Remote Smart Parking Assist brake control is not operating (if equipped)

i Information

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

Overtaking Acceleration Assist

Overtaking Acceleration Assist will operate 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)
- The hazard warning flasher is off
- A vehicle is detected in front of your vehicle
- Deceleration is not needed to maintain distance with the vehicle in front



WARNING

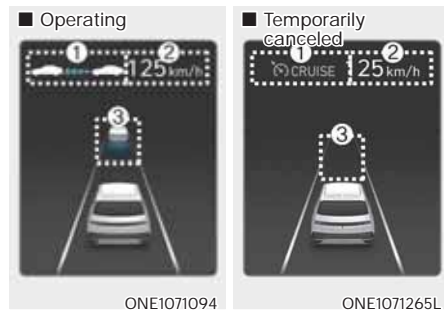
- When the turn signal indicator is turned on to the left (left-hand drive) or turned on to the right (right-hand drive) while there is a vehicle ahead, the vehicle may accelerate temporarily. Pay attention to the road conditions at all times.
- Regardless of your countries driving direction, Overtaking 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.

Smart Cruise Control display and control

Basic function

You can see the status of the Smart Cruise Control operation in the Driving Assist view on the cluster. Refer to "View Modes" section in chapter 4.

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



- When operating
 - (1) Whether there is a vehicle ahead and the selected distance level are displayed.
 - (2) Set speed is displayed.
 - (3) Whether there is a vehicle ahead and the target headway are displayed.
- When temporarily canceled
 - (1) CRUISE indicator is displayed.
 - (2) The previous set speed is shaded.
 - (3) Vehicle ahead and distance level are not displayed.

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 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 from the instrument cluster.

To temporarily accelerate



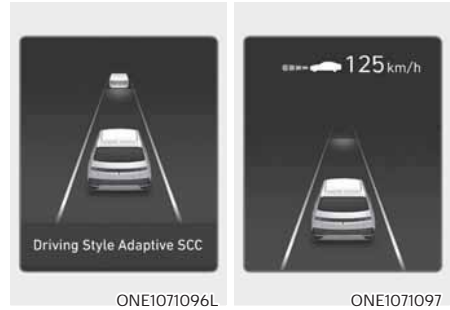
If you want to speed up temporarily without altering the set speed while Smart Cruise Control is operating, depress the accelerator pedal. While the accelerator pedal is depressed, the set speed, distance level and target distance will blink on the cluster.

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 operating



When Based on Driving Style is operating, 'Driving Style Adaptive SCC' message will appear on the cluster for 2 seconds, and the distance level and target distance will be displayed based on the driving style.

Smart Cruise Control temporarily canceled



Smart Cruise Control will be temporarily canceled automatically when:

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

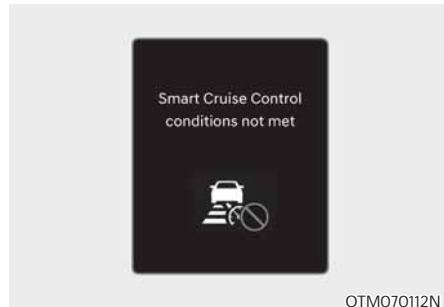
If Smart Cruise Control is temporarily canceled automatically, the 'Smart Cruise Control canceled' (or 'SCC (Smart Cruise Control) cancelled') warning message will appear on the cluster, and an audible warning will sound to warn the driver.


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 pushed when Smart Cruise Control operating conditions are not satisfied, the 'Smart Cruise Control conditions not met' (or 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 have passed, the 'Use switch or pedal to accelerate' message will appear on the cluster. Depress the accelerator pedal or push 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.
- While the 'Use switch or pedal to accelerate' message is displayed on the cluster, if there is no vehicle in front or the vehicle is far away from you, and the + switch, - switch or ||○ switch is pushed.

WARNING

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

Collision Warning



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

WARNING

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

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

WARNING

Take the following precautions when using Smart Cruise Control:

- Smart Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always check the speed and distance to the vehicle ahead.
- Smart Cruise Control may not recognize unexpected and sudden situations or complex driving situations, so always pay attention to driving conditions and control your vehicle speed.
- Keep Smart Cruise Control off when the function is not in use to avoid inadvertently setting a speed.
- Do not open the door or leave the vehicle when Smart Cruise Control is operating, even if the vehicle is stopped.
- Always be aware of the selected speed and headway distance.
- Keep a safe distance according to road conditions and vehicle speed. If the headway distance is too close during high-speed driving, a serious collision may result.

- When maintaining distance with the vehicle ahead, if the front vehicle disappears, Smart Cruise Control may suddenly accelerate to the set speed. Always be aware of unexpected and sudden situations from occurring.
- Vehicle speed may decrease on an upward slope and increase on a downward slope.
- Always be aware of situations such as when a vehicle cuts in suddenly.
- When you are towing a trailer or another vehicle, we recommend that Smart Cruise Control is turned off due to safety reasons.
- Turn off Smart Cruise Control when your vehicle is being towed.
- Smart Cruise Control may not operate normally if interfered by strong electromagnetic waves.
- Smart Cruise Control may not detect an obstacle in front and lead to a collision. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- Vehicles moving in front of you with a frequent lane change may cause a delay in Smart Cruise Control reaction or may cause Smart Cruise Control to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of the surroundings and drive safely, even though a warning message does not appear or an audible warning does not sound.
- If any other system's warning message is displayed or warning sound is generated, Smart Cruise Control warning message may not be displayed and warning sound may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Always set the vehicle speed under the speed limit in your country.
- Vehicle distance, acceleration and reaction speed may change if the driver's driving style changes.



CAUTION

- 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.



Information

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

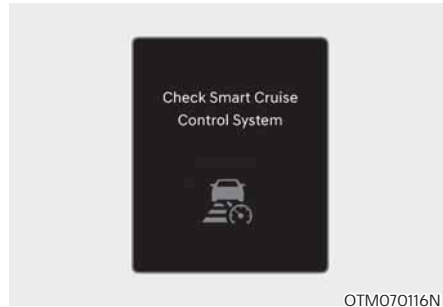



Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Smart Cruise Control malfunction and limitations

Smart Cruise Control malfunction



When Smart Cruise Control is not working properly, the 'Check Smart Cruise Control system' (or 'Check SCC (Smart Cruise Control) system') warning message will appear, and the  warning light will illuminate on the cluster. We recommend that the 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 'Smart Cruise Control disabled. Radar blocked' (or 'SCC (Smart Cruise Control) disabled. Radar blocked') warning message will appear for a certain period of time on the cluster.

Smart Cruise Control will operate normally 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 normally, 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, sticky or 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 headlamps 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 lamps 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.
- A material is near that reflects very well on 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 large 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 a sloped 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.

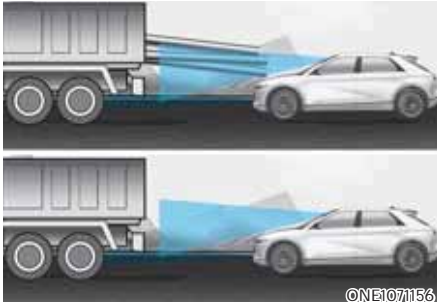
- Detecting vehicle



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

- Vehicles offset to one side
- Slow-moving vehicles or sudden-decelerating vehicles
- Oncoming vehicles
- Stopped vehicles
- Vehicles with small rear profile, such as trailers
- Narrow vehicles, such as motorcycles or bicycles
- Special vehicles
- Animals and pedestrians

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



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

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

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



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

Always pay attention to road and driving conditions while driving.



- When a vehicle in front of you merges out of the lane, Smart Cruise Control may not immediately detect the new vehicle that is now in front of you. Always pay attention to road and driving conditions while driving.



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

LANE FOLLOWING ASSIST (LFA) (IF EQUIPPED)

Lane Following Assist is designed to help detect lane markings and/or vehicles on the road, and assists the driver's steering to help keep the vehicle between lanes.

Detecting sensor



[1]: Front view camera

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

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



CAUTION


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

Lane Following Assist settings

Setting features



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 grey or green  indicator light will illuminate on the cluster.

Press the button again to turn off the function.



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Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Hands-off warning.

However, even if 'Off' is selected, the Hands-off Warning Volume will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.


Lane Following Assist operation

Warning and control




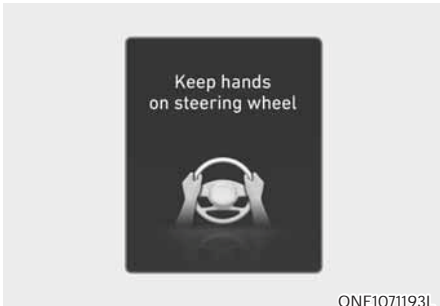
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Lane Following Assist

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 will illuminate on the cluster, and Lane Following Assist will help the vehicle stay in lane by assisting the steering wheel.

CAUTION

When the steering wheel is not assisted, the white  indicator light will blink and change to grey.

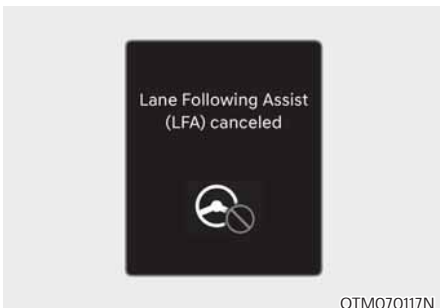


Hands-off warning

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

First stage : Warning message

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



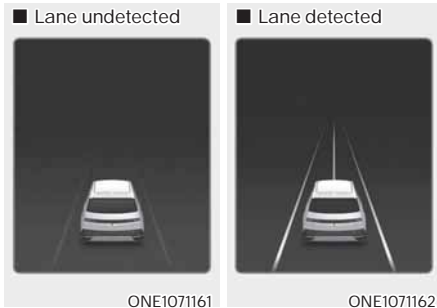
If the driver still does not have their hands on the steering wheel after the hands-off warning, the 'Lane Following Assist (LFA) canceled' (or 'LFA (Lane Following Assist) cancelled') warning message will appear and Lane Following Assist will be automatically canceled.

 **WARNING**

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

i Information

- For more details on setting the functions in the infotainment system, refer to “Vehicle Settings” section in chapter 4.
- When both lane markings are detected, the lane lines on the cluster will change from grey to white.



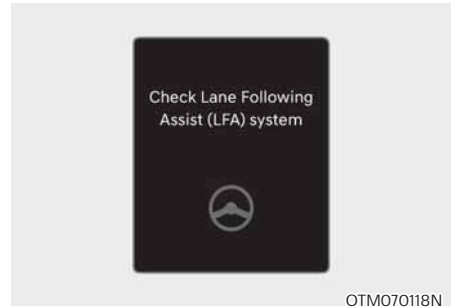
- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected from the instrument cluster.
- If lane markings are not detected, steering wheel control by Lane Following Assist can be limited depending on whether a vehicle is in front or the driving conditions 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.

i Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Lane Following Assist malfunction and limitations

Lane Following Assist malfunction



When Lane Following Assist is not working properly, the ‘Check Lane Following Assist (LFA) system’ (or ‘Check LFA (Lane Following Assist) system’) warning message will appear for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Lane Following Assist

For more details on Lane Following Assist limitations, refer to “Lane Keeping Assist (LKA)” section in this chapter.

⚠ WARNING

For more details on Lane Following Assist precautions, refer to “Lane Keeping Assist (LKA)” section in this chapter.

REAR VIEW MONITOR (RVM) (IF EQUIPPED)

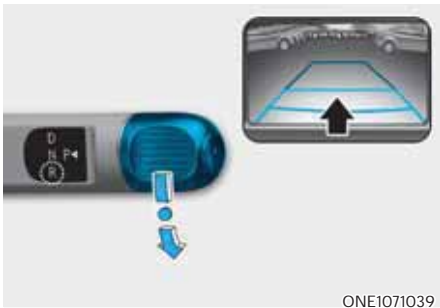


Detecting sensor



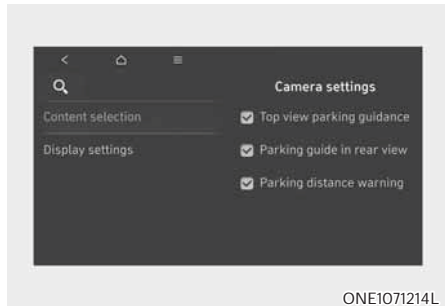
[1] : Rear view camera

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



Rear View Monitor will show the area behind the vehicle to assist you when parking or backing up.

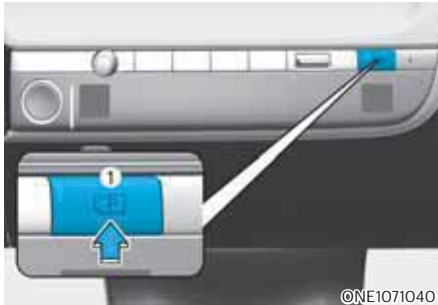
Rear View Monitor settings Camera settings



- You can change Rear View Monitor 'Display Contents' by touching the setup icon (⚙️) on the screen while Rear View Monitor is operating, or selecting 'Driver Assistance → Parking Safety → Camera Settings' from the Settings menu while the vehicle is on.
- To use Rear View while Driving, select 'Camera Settings → Display Contents → Keeps Rear Camera' from the Settings menu while the vehicle is on.
- In the Display Contents, you can change setting for 'Rear View' and in the Display Settings, you can change the screen's 'Brightness' and 'Contrast'.

Rear View Monitor operation

Operating button



Parking/View button

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

Press the button again to turn off the function.

Rear view

Operating conditions

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

Off conditions

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

Extended Rear View function

The rear view will maintain showing on the screen to help you when parking.

Operating conditions

Shift the gear from R (Reverse) to N (Neutral) or D (Drive), the rear view will appear on the screen.

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.

Rear view while driving



The driver is able to check the rear view on the screen while driving, it is to assist with safe driving.

Operating conditions

Press the Parking/View button (1) while the gear is in D (Drive) or N (Neutral), the driving rear view will appear on the screen.

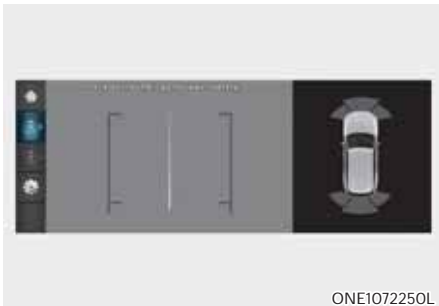
Off conditions


- Press the Parking/View button (1) again, the driving rear view will turn off.
- Press one of the infotainment system button (2), the driving rear view will turn off.
- Shift the gear to P (Park), the driving rear view will turn off.

When operating

If the gear is shifted to R (Reverse), while Driving rear view is displayed on the screen, the screen will change to rear view with parking guidance.

Rear top view



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

Rear View Monitor malfunction and limitations

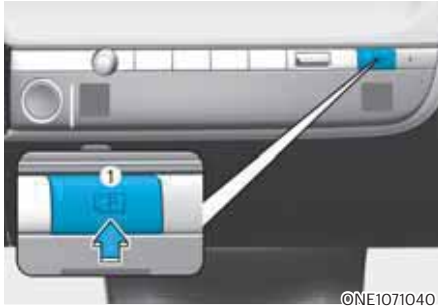
Rear View Monitor malfunction

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

WARNING

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



©NE1071040



©JK070203L

Surround View Monitor can assist in parking by allowing the driver to see around the vehicle.

Detecting sensor



©NE1071042K



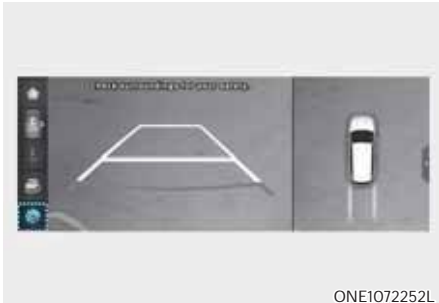
©NE1071043L

- [1] : Surround-front view camera,
- [2],[3] : Surround-side view camera
(under the outside rearview mirror),
- [4] : Surround-rear view camera

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

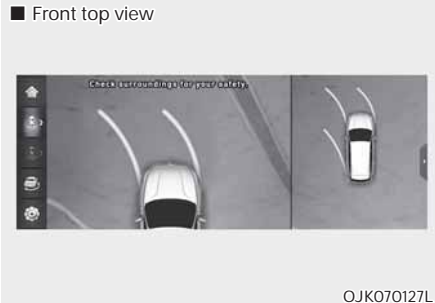
Surround View Monitor settings

Camera settings



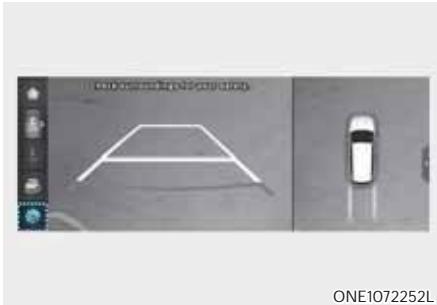
- You can change Surround View Monitor 'Display Contents' or 'Display Settings' by touching the setup icon (⚙️) on the screen while Surround View Monitor is operating, or selecting 'Driver Assistance → Parking Safety → Camera Settings' from the Settings menu while the vehicle is on.
- In the Display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

Top View Parking Guidance



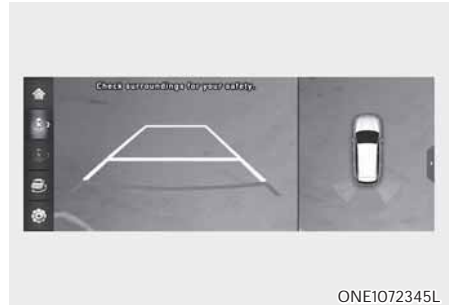
- When the 'Top View Parking Guidance' is selected, parking guidance is displayed on the right side of the Surround View Monitor screen.
- The 'Top View Parking Guidance' can be connected with the front top view parking guidance or the rear top view parking guidance.

Rear View Parking Guidance



- When the 'Rear View Parking Guidance' is selected, parking guidance is displayed in the rear view.
- The horizontal guideline of the Rear View Parking Guidance shows the distance of 0.5 m (1.6 ft.), 1 m (3.3 ft.) and 2.3 m (7.6 ft.) from the vehicle.

Parking Distance Warning



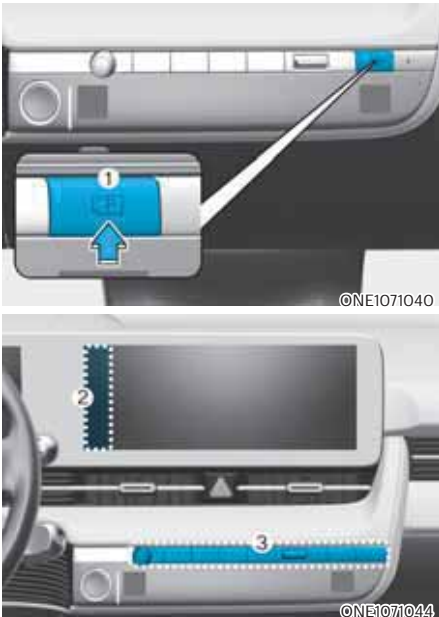
- When the 'Parking Distance Warning' is selected, parking distance warning is displayed on the right side of the Surround View Monitor screen.
- The image will be displayed only when Parking Distance Warning is warning the driver.

Surround View Monitor Auto On

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

Surround View Monitor operation

Operating button



- Press the Parking/View button (1) to turn on Surround View Monitor. Press the button again to turn off the function.
- Other view modes can be selected by touching the view icons (2) on the Surround View Monitor screen.
- When one of the infotainment system button (3) is pressed without the gear in R (Reverse), Surround View Monitor will turn off.

Front view

The front image is displayed on the screen when the gear is in N (Neutral) or D (Drive) to assist in parking. The front view has a top view/front view/side view/3D view.

Operating conditions

- When the gear is shifted from R (Reverse) to N (Neutral) or D (Drive), the last set mode of front view function will be selected.
- Front view function will operate when the following conditions are satisfied:
 - While the infotainment system screen is being displayed, press the Parking/View button (1) briefly when the gear is in D (Drive) or N (Neutral) and vehicle speed is below 10 km/h (6 mph).
- Surround View Monitor Auto On function will operate when the following conditions are satisfied:
 - With 'Driver Assistance → Parking Safety → Surround View Monitor Auto On' selected from the Settings menu, the front parking assist view screen is displayed when Parking Distance Warning warns the driver while driving in D (Drive).

Off conditions

- Press the Parking/View button (1) again, the image will turn off.
- When vehicle speed is above 10 km/h (6 mph) with the gear in D (Drive), Surround View Monitor will turn off and the screen will change back to the previous infotainment system screen. Although you drive below 10 km/h (6 mph) again, Surround View Monitor will not turn on.
- Press one of the infotainment system button (3), the screen will change to the infotainment system screen.
- Shift the gear to P (Park), the image will turn off.

Rear view

The rear image is displayed on the screen when the gear is in P (Park) to assist in parking. The rear view has a top view/rear view/side view/3D view.

Operating conditions

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


Off conditions

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

Rear view while driving

The driver is able to check the rear view on the screen while driving, it is to assist with safe driving.

Operating conditions

- The vehicle is ON.
- Press the Parking/View button (1) when vehicle speed is above 10 km/h (6 mph), Rear View while driving will appear on the screen.
- The  icon is touched on the Surround View Monitor screen when vehicle speed is below 10 km/h (6 mph), Rear View while driving will appear on the screen.

Off conditions

- Press the Parking/View button (1) again, the screen will change back to the previous infotainment system screen.
- Select other view modes from the Surround View Monitor screen when vehicle speed is below 10 km/h (6 mph), Rear View while driving will turn off.
- Press one of the infotainment system button (3), the screen will change to the infotainment system screen.
- Shift the gear to P (Park), Rear View while driving will turn off.

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 normally, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Surround View Monitor

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



WARNING

- ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle. What you see on the screen may differ from the actual vehicle's location.
- The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Surround View Monitor is designed to be used on a flat surface. Therefore, if used on roads with different heights such as curbs and speed bumps, the image in the screen may not look correct.
- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Surround View Monitor may not operate normally. However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone etc.). This may damage the camera lens.

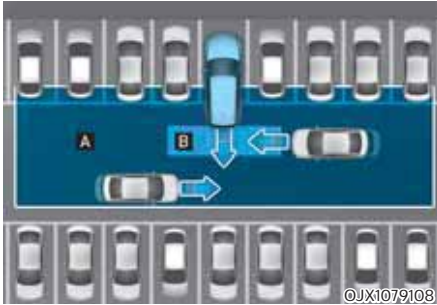


Information

- When Rear View while Driving is on, it stays on while driving regardless of vehicle speed.
- When Rear View while Driving is on while backing up, the screen changes to the rear view.

REAR CROSS-TRAFFIC COLLISION-AVOIDANCE ASSIST (RCCA) (IF EQUIPPED)

Rear Cross-Traffic Collision-Avoidance Assist is designed to help detect vehicles approaching from the left and right side while your vehicle is reversing, and warn the driver that a collision is imminent with a warning message and an audible warning. Also, braking is assisted to help prevent collision.



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

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



CAUTION

The time of warning may vary depending on vehicle speed of the approaching vehicle.

Detecting sensor



[1] : Rear corner radar

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

i Information

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

Rear Cross-Traffic Collision-Avoidance Assist settings

Setting features



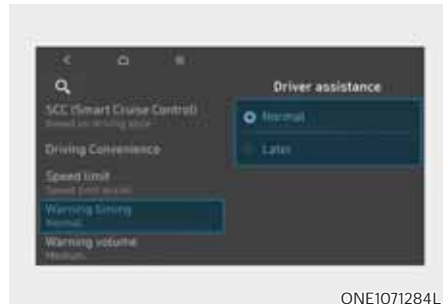
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Rear Cross-Traffic Safety

With the vehicle on, select 'Driver Assistance → Parking Safety → Rear Cross-Traffic Safety' from the Settings menu to turn on Rear Cross-Traffic Collision-Avoidance Assist and deselect to turn off the function.

WARNING

When the vehicle is restarted, Rear Cross-Traffic Collision-Avoidance Assist will always turn on. However, if 'Off' is selected after the vehicle is restarted, the driver should always be aware of the surroundings and drive safely.



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Warning Timing

With the vehicle on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Rear Cross-Traffic Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



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Warning Volume

With the vehicle on, select 'Driver Assistance → Warning volume' or 'Sound → Driver Assist Warning → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off' for Rear Cross-Traffic Collision-Avoidance Assist.

However, when Warning Volume is turned off, the steering wheel vibration function will turn on.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of the Rear Collision-Avoidance Assist.
- Even though 'Normal' is selected for Warning Timing, if the vehicles from the left and right side approaches at high speed, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

Information

If the vehicle is restarted, Warning Timing and Warning Volume will maintain the last setting.

Rear Cross-Traffic Collision-Avoidance Assist operation

Warning and control

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



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Collision Warning

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and a warning will appear on the cluster. At the same time, an audible warning will sound and the steering wheel will vibrate. If the 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 will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).



Emergency Braking

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and a warning message will appear on the cluster. At the same time, an audible warning will sound and the steering wheel will vibrate. 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 1.5 m (5 ft.) from the left and right side of your vehicle
 - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)
- Emergency braking will be assisted to help prevent collision with approaching vehicles from the left and right.



WARNING

Brake control will end when:

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



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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, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Rear Cross-Traffic Collision-Avoidance Assist's 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 normally.
- When Rear Cross-Traffic Collision-Avoidance Assist is operating, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- Rear Cross-Traffic Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.

- The driver should hold the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Rear Cross-Traffic Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.



CAUTION

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

There will only be a warning when:

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



Information

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

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



Information

The images or colors may be displayed differently depending on the specifications of the instrument panel or theme.

Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations

Rear Cross-Traffic Collision-Avoidance Assist malfunction



OTM070125N

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



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When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the 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 'Rear Cross-Traffic Safety system disabled. Radar blocked' or 'Rear cross-traffic safety functions disabled. Radar blocked' warning message will appear on the cluster.

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

If Rear Cross-Traffic Collision-Avoidance Assist does not operate normally after it is removed, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

WARNING

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

CAUTION

Turn off Rear Cross-Traffic Collision-Avoidance Assist to install a trailer, carrier, etc., or remove the trailer, carrier, etc., to use Rear Cross-Traffic Collision-Avoidance Assist.

Limitations of Rear Cross-Traffic Collision-Avoidance Assist

Rear Cross-Traffic Collision-Avoidance Assist may not operate normally, 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:

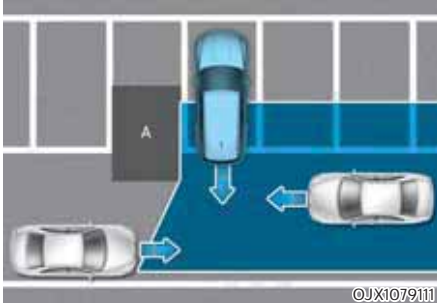
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The braking system has been modified
- Remote Smart Parking Assist is operating (if equipped)

Information

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

 **WARNING**

- Driving near a vehicle or structure

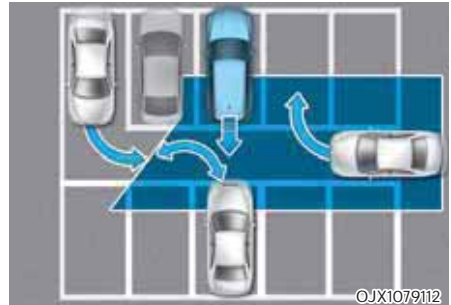


[A] : Structure

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.

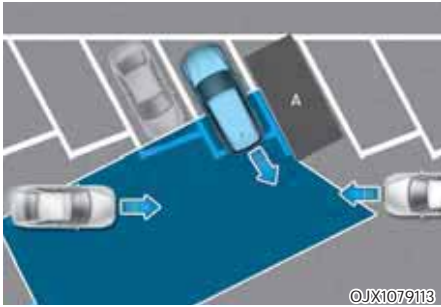
- When the vehicle is in a complex parking environment



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

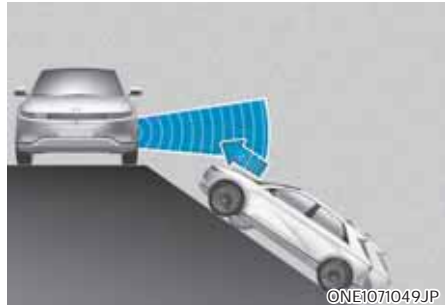


[A] : Vehicle

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.

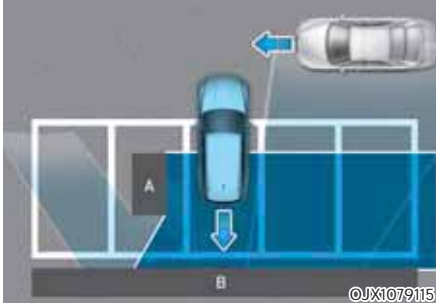
- When the vehicle is on or near a slope



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 another vehicle, we recommend that Rear Cross-Traffic Collision-Avoidance Assist is turned off due to safety reasons.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate normally if interfered by strong electromagnetic waves.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the rear corner radars are initialized.

REVERSE PARKING DISTANCE WARNING (PDW) (IF EQUIPPED)

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

Detecting sensor



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[1] : Rear ultrasonic sensors

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

Reverse Parking Distance Warning settings Warning Volume



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Select 'Driver Assistance → Warning Volume' from the infotainment system Settings menu to change the Warning Volume to 'High', 'Medium', or 'Low' for Reverse Parking Distance Warning.

However, even if 'Off' is selected, Warning Volume of Reverse Parking Distance Warning will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

Reverse Parking Distance Warning operation Operating button






©NE1071052

Parking Safety button (if equipped)

- Press the Parking Safety (P[Ⓜ]) button to turn on Reverse Parking Distance Warning. Press the button again to turn off the function.
- When Reverse Parking Distance Warning is off (button indicator light off), if you shift the gear to R (Reverse), Reverse Parking Distance Warning will automatically turn on.

Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning detects a person, animal or object in the rear when the vehicle's rearward speed is below 10 km/h (6 mph).

Distance from object	Warning indicator when driving backward	Warning sound
60~120 cm (24~48 in.)		Buzzer beeps intermittently
30~60 cm (12~24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

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

Reverse Parking Distance Warning malfunction and precautions

Reverse Parking Distance Warning malfunction

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

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 the vehicle be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Ultrasonic sensor error or blockage' warning message appears on the cluster.





WARNING

- Reverse Parking Distance Warning is a supplemental function. The operation of Reverse Parking Distance Warning can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the rear view before and while parking.
- Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Reverse 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.

Limitations of Reverse Parking Distance Warning

- Reverse Parking Distance Warning may not operate normally when:
 - Moisture is frozen to the sensor
 - Sensor is covered with foreign material, such as snow or water (Reverse Parking Distance Warning will operate normally when such foreign material are removed.)
 - The weather is extremely hot or cold The sensor or sensor assembly is disassembled
 - The surface of the sensor is pressed hard or an impact is applied 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
- Reverse 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
 - Driving on uneven road, gravel roads or bushes
 - Objects that generates ultrasonic waves are near the sensor
 - Installing the license plate differently from the original location
 - The vehicle bumper height or ultrasonic sensor installation has been modified
 - Attaching equipments or accessories around the ultrasonic sensors
- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - 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
- Parking Distance Warning Indicators may be displayed differently from the actual detected location when the obstacle is located between the sensors.
- Parking Distance Warning indicator may not occur sequentially depending on vehicle speed or obstacle shape.
- If Reverse Parking Distance Warning needs repair, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

FORWARD/REVERSE PARKING DISTANCE WARNING (PDW) (IF EQUIPPED)

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

Detecting sensor



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- [1] : Front ultrasonic sensors,
[2] : Rear ultrasonic sensors

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

Forward/Reverse Parking Distance Warning settings

Warning Volume

Select 'Driver Assistance → Warning Volume' from the cluster or infotainment system Settings menu to change the Warning Volume to 'High', 'Medium', or 'Low' for Forward/Reverse Parking Distance Warning.

However, even if 'Off' is selected, the Warning Volume of Forward/Reverse Parking Distance Warning will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

Parking Distance Warning Auto On

To use Parking Distance Warning Auto On function, select 'Driver Assistance → Parking Safety → Parking Distance Warning Auto On' from the cluster or infotainment system Settings menu.




Forward/Reverse Parking Distance Warning operation

Operating button



Parking Safety button




- Press the Parking Safety (P $\frac{1}{2}$) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.
 - When Forward/Reverse Parking Distance Warning is off (button indicator light off), if you shift the gear to R (Reverse), Forward/Reverse Parking Distance Warning will automatically turn on.
 - When Forward/Reverse Parking Distance Warning turns on, the button indicator light will turn on. If vehicle speed is above 20 km/h (12 mph), Forward/Reverse Parking Distance Warning will turn off (button indicator light off).
 - * If equipped with Reverse Parking Collision-Avoidance Assist or Remote Smart Parking Assist, Forward/Reverse Parking Distance Warning will turn off (button indicator light off) when vehicle speed is above 30 km/h (18 mph).
- ### Forward Parking Distance Warning
- Forward Parking Distance Warning will operate when one of the condition is satisfied.
 - The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
 - The gear is in D (Drive) and the Parking Safety button indicator light is on
 - 'Parking Distance Warning Auto On' is selected from the Settings menu and the gear is in D (Drive)
 - Forward Parking Distance Warning detects a person, animal or object in front when the vehicle's forward speed is below 10 km/h (6 mph).
 - Forward Parking Distance Warning does not operate when the vehicle's forward speed is above 10 km/h (6 mph) even when the Parking Safety button indicator is on. Forward Parking Distance Warning will operate again when the vehicle's forward speed decreases below 10 km/h (6 mph) while the Parking Safety button indicator is on.
 - When 'Parking Distance Warning Auto On' is selected, the Parking Safety button indicator light stays on.
 - When 'Parking Distance Warning Auto On' is deselected, and the vehicle's forward speed is above 20 km/h (12 mph), the Parking Safety (P $\frac{1}{2}$) button indicator will turn off. Although you drive below 10 km/h (6 mph), Forward Parking Distance Warning will not turn on.
 - * If equipped with Reverse Parking Collision-Avoidance Assist or Remote Smart Parking Assist, Forward/Reverse Parking Distance Warning will turn off when vehicle speed is above 30 km/h (18 mph).

Distance from object	Warning indicator when driving forward	Warning sound
60–100 cm (24–40 in.)		Buzzer beeps intermittently
30–60 cm (12–24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

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

Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning detects a person, animal or object in the rear when the vehicle's rearward speed is below 10 km/h (6 mph).
- When the vehicle's rearward speed is below 10 km/h (6 mph), both the front and rear ultrasonic sensors will detect objects. However, the front ultrasonic sensors can detect a person, animal or object when it is within 60 cm (24 in.) from the sensors.

Distance from object	Warning indicator when driving backward	Warning sound
60–120 cm (24–48 in.)		Buzzer beeps intermittently
30–60 cm (12–24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

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

Forward/Reverse Parking Distance Warning malfunction and precautions

Forward/Reverse Parking Distance Warning malfunction

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

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 the vehicle be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Ultrasonic sensor error or blockage' warning message appears on the cluster.



WARNING

- Forward/Reverse Parking Distance Warning is a supplemental function. The operation of Forward/Reverse 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 Forward/Reverse 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.

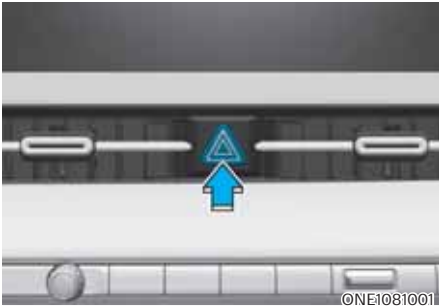
Limitations of Forward/Reverse Parking Distance Warning

- Forward/Reverse Parking Distance Warning may not operate normally when:
 - Moisture is frozen to the sensor
 - Sensor is covered with foreign material, such as snow or water (Forward/Reverse Parking Distance Warning will operate normally when such foreign material are removed.)
 - The weather is extremely hot or cold
 - The sensor or sensor assembly is disassembled
 - The surface of the sensor is pressed hard or an impact is applied 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
- Forward/Reverse 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
 - Driving on uneven road, gravel roads or bushes
 - Objects that generates ultrasonic waves are near the sensor
- Installing the license plate differently from the original location
- The vehicle bumper height or ultrasonic sensor installation has been modified
- Attaching equipments or accessories around the ultrasonic sensors
- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - 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
- Parking Distance Warning Indicators may be displayed differently from the actual detected location when the obstacle is located between the sensors.
- Parking Distance Warning indicator may not occur sequentially depending on vehicle speed or obstacle shape.
- If Forward/Reverse Parking Distance Warning needs repair, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

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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 running 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 'To stay in N (Neutral) when vehicle is OFF' 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-volt 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 12V battery is drained.

Do not push or pull the vehicle to start it. This could cause damage to your vehicle.

JUMP STARTING (12V BATTERY)

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 12V 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 will 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 battery cover located inside of the front trunk.
6. 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.



7. 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).
8. Connect the other end of the jumper cable to the red, positive (+) battery/ jumper terminal of the assisting vehicle (2).
9. Connect the second jumper cable to the black, negative (-) battery/ jumper terminal of the assisting vehicle (3).
10. 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.

11. Start the assisting vehicle and let it run at approximately for a few minutes. Then start your vehicle.
12. 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 completely discharged battery may require as long as 60 minutes runtime to fully recharge it. If the vehicle is run for less, the battery may not restart.

If your vehicle will not start after a few attempts, it probably requires service. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, we recommend that you have your vehicle checked 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).

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-volt 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 to come in contact. A spark could cause personal injury.

TIRE PRESSURE MONITORING SYSTEM (TPMS)



ONE1081004L



ONE1081005L

- (1) Low Tire Pressure Telltale/TPMS Malfunction Indicator
- (2) Low Tire Pressure Position Telltale and Tire Pressure Telltale (Shown on the LCD display)

Check tire pressure



ONE1041010L

- You can check the tire pressure in the Utility view on the cluster.
- Refer to the "View Modes" section in chapter 4.
- Tire pressure is displayed after a few minutes of driving after initial vehicle start up.
- If tire pressure is not displayed when the vehicle is stopped, 'Drive to display' message will appear. After driving, check the tire pressure.
- The displayed tire pressure values may differ from those measured with a tire pressure gauge.
- You can change the tire pressure unit from the Settings menu in the infotainment system screen. Select:
 - Setup → General Settings → Unit → Tire Air Pressure Unit → psi/kPa/bar

i Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

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 an accident.

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 fuel 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 approximately 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

If any of the below happens, we recommend that you have the system checked by an authorized HYUNDAI dealer.

- 1. The Low Tire Pressure Telltale/ TPMS Malfunction Indicator does not illuminate for 3 seconds when the Start/Stop button is pressed to the ON position or when the vehicle is running.**
- 2. The TPMS Malfunction Indicator remains illuminated after blinking for approximately 1 minute.**
- 3. The Low Tire Pressure Position Telltale remains illuminated.**



Low tire pressure warning light

Low tire pressure position and tire pressure telltale



ONE1081021L

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 Telltale will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated (when the vehicle is driven approximately 10 minutes at speed above 25 km/h (15.5 mph)) 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 (Tire Pressure Monitoring System) malfunction indicator

The TPMS Malfunction Indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System.

We recommend that the system be checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

If there is a malfunction with the TPMS, the Low Tire Pressure Position Telltale will not be displayed even though the vehicle has an under-inflated tire.

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 electronic devices such as computers, chargers, remote starters, navigation, etc. 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 will come on. We recommend that the flat tire be repaired by an authorized HYUNDAI dealer as soon as possible or replace the flat tire with the spare tire.

NOTICE

It is recommended that you do not use a puncture-repairing agent not approved by an authorized HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by an authorized 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.

Information



ONE1081026

For 20 inches wheel, take out the remover tool (1) in the Tire Mobility Kit. Insert the tool to the hole and pull out the wheel cover.

IF YOU HAVE A FLAT TIRE (WITH TIRE MOBILITY KIT)



For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

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 miles)) 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're 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 approximately 6 mm (0.24 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 min. 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.

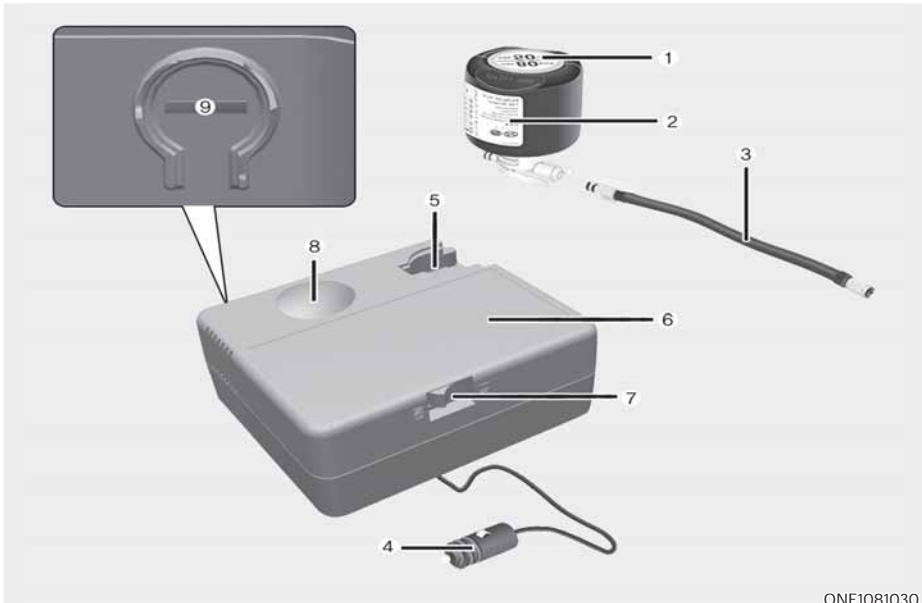


CAUTION

The Tire Mobility Kit provided with IONIQ 5 has a power rating of 12V/180W. Tire Mobility Kit should be connected at the front passenger side power outlet only.

The Tire Mobility Kit should not be used in any other vehicle. Due to excessive current flow, there may be short circuit/damage in other vehicle and in Tire Mobility Kit.

Components of the Tire Mobility Kit



ONE1081030

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. Button for reducing 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. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (6) in the direction of (B).
3. Ensure that the compressor is switched OFF.
4. Unscrew the valve cap from the valve of the defective wheel and screw the filling hose (3) of the sealant bottle onto the valve.



CAUTION

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



5. Plug the compressor power cord (4) into the vehicle power outlet.

NOTICE

Only use the front passenger side power outlet when connecting the power cord.

6. With the vehicle ON (**READY** indicator ON), switch on the compressor and let it run for approximately 5–7 minutes to fill the sealant up to proper pressure. (refer to the Tire and Wheels, 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.



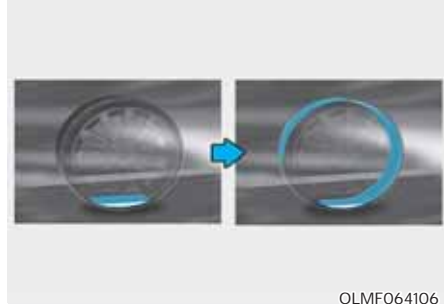
CAUTION

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 approximately 7–10 km (4–6 miles or, about 10min) 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.



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10. After driving approximately 7~10 km (4~6 miles or about 10 min), 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: Press the button (9) on the compressor.

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: Press the button (9) on the compressor.

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.

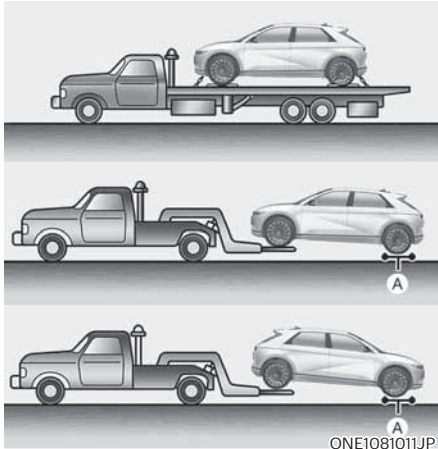
⚠ WARNING

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.

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.

When being towed by a commercial tow truck and wheel dollies are not used, the rear of the vehicle should always be lifted, not the front.

CAUTION

Do not tow the vehicle with the rear wheels on the ground as this may cause damage to the vehicle.



For AWD vehicles, it must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

Precautions when moving a short distance before towing a vehicle

Move short distances within 10 m (33 feet) 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 reduction gear 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.

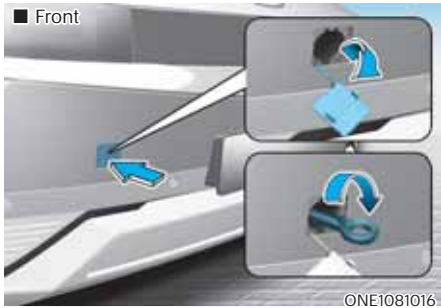
CAUTION

Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.



Removable towing hook

1. Open the tailgate, and remove the towing hook from the tool case.
2. Remove the hole cover.



- Push the lower part of the bumper hole cover.



- Push the upper part of the bumper hole cover.
 - Pull the lower part of the bumper hole cover.
3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
 4. 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 is equipped with emergency commodities to help you respond to emergency situation.

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

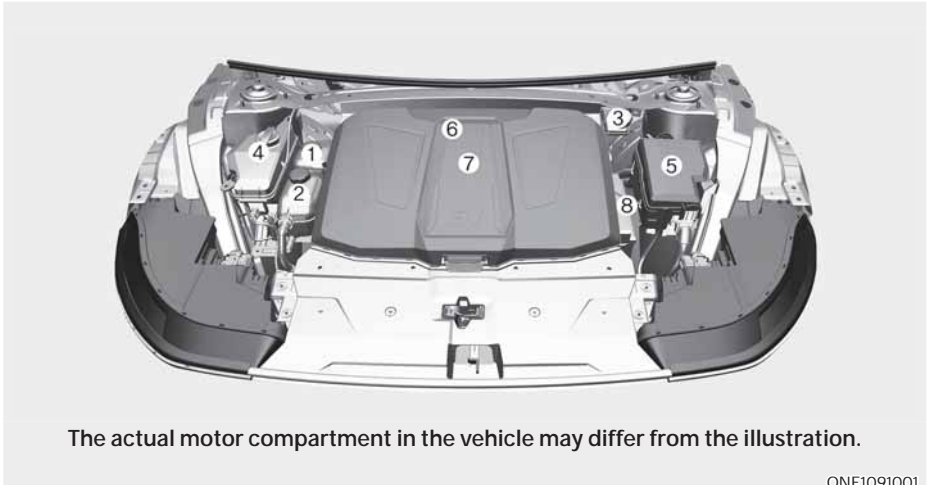
- When an accident occur, park the vehicle to a safe place. To avoid the leak of electricity in high voltage battery, turn the vehicle off and pull the yellow label in the high voltage battery switch to shut down the high voltage battery. Also, disconnect the auxiliary battery(12V) cable to shut down. 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.

10. Maintenance

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MOTOR COMPARTMENT



1. Coolant reservoir
2. Low Conductivity Water (LCW) coolant reservoir
3. Brake fluid reservoir
4. Windshield washer fluid reservoir
5. Fuse box
6. Climate control system air filter
7. Front trunk
8. Battery (12V)

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 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.
- If any slipping or changes in the operation of your gear shift occurs, check the shift gear fluid level.
- 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 lug nuts.

At least twice a year: (i.e., 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.
- Inspect and lubricate shift gear linkage and controls.
- Clean the battery (12V) 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 miles) in normal temperature or less than 16 km (10miles) 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.

MAINTENANCE ITEM	MAINTENANCE INTERVALS								
	Number of months or driving distance, whichever comes first								
	Years	1	2	3	4	5	6	7	8
	Months	12	24	36	48	60	72	84	96
	Km×1,000	10	20	30	40	50	60	70	80
Cooling system		Inspect every 10,000 km or 12 months.							
Coolant *1	Standard	At first, replace at 2,00,000 km or 120 months; After that, replace every 40,000 km or 24 months.							
	Low Conductivity	Replace every 60,000 km or 36 months *2							
Reduction gear fluid		I			I			I	I
12V auxiliary battery condition		I		I				I	I
All electrical system		I		I				I	I
Brake lines, hoses and connections		I		I				I	I
Brake pedal		I		I				I	I
Parking brake		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 : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1: When replacing or adding coolant, we recommend that you visit an authorized HYUNDAI dealer.

*2: For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

Normal maintenance schedule

MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first							
	1	2	3	4	5	6	7	8
MAINTENANCE ITEM	12	24	36	48	60	72	84	96
Years	10	20	30	40	50	60	70	80
Months								
Km×1,000								
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

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

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
Reduction gear fluid	R	Every 120,000 km (80,000 miles)	A, B, E, F, 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 miles) in normal temperature or less than 16 km (10 miles) 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

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.

Reduction gear fluid

The reduction gear 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, refer to the HYUNDAI web site.

(<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.

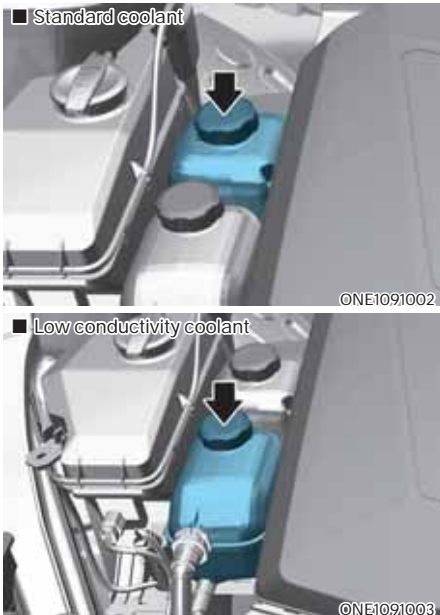
Drive shafts and boots

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 or F and the MIN or L marks on the side of the coolant reservoir when the parts in the motor compartment is cool.

If the coolant is low, we recommend to have the vehicle inspected by an authorized HYUNDAI dealer.

Use only designated coolant water for electric vehicles, adding other types of water or antifreeze can damage the vehicle.

WARNING

Since specific coolant water (Blue color, Low conductivity) is applied for electric vehicles, replenishment of other antifreeze or water may cause problems to the vehicle.

WARNING



The electric motor for the cooling fan may continue to operate or start up when the vehicle is not running and can cause serious injury.

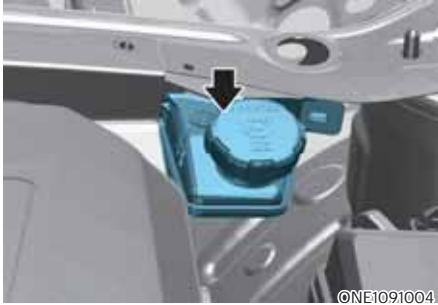


Keep hands, clothing and tools away from the rotating fan blades of the cooling fan.

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 will automatically shut off. This is a normal condition.

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

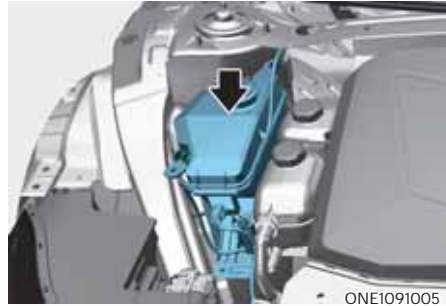
Use only the specified brake fluid (refer to “Recommended Lubricants and Capacities” section in chapter 2).

REDUCTION GEAR FLUID

There is no reduction gear fluid level gauge in the vehicle. Check the reduction gear 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

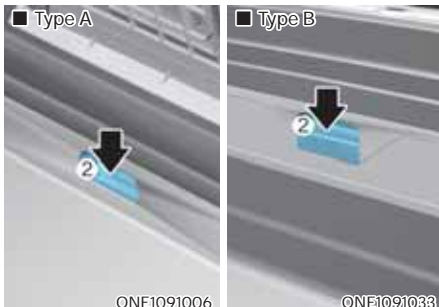
The cabin air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced sooner. Replace the cabin air filter by following the procedure below and be careful to avoid damaging other components.

Filter replacement

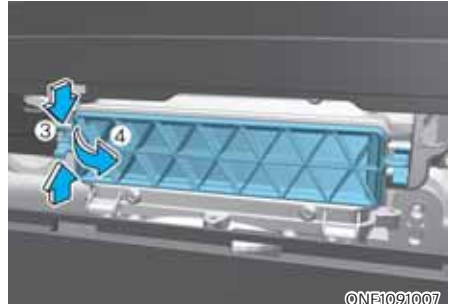
1. Open the hood.



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).



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 a good cleaner or mild detergent, and rinse thoroughly with clean water.

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.
- Use non-specified wiper blades.

i Information

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

i Information

Wiper blades are consumable items. Normal wear of the wipers may not be covered by your vehicle warranty.

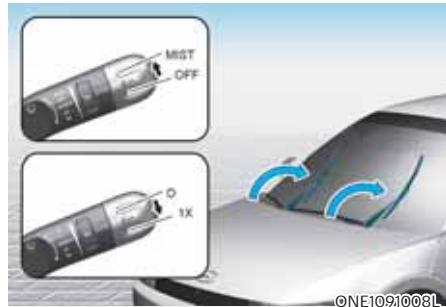
Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

NOTICE

- In order to prevent damage to the hood and the wiper arms, the wiper arms should only be lifted when in the top wiping position.
- Always return the wiper arms to the windshield before driving.

Front windshield wiper blade replacement

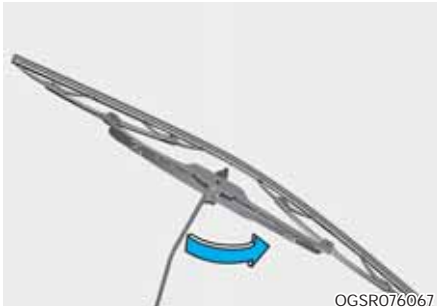


[A] : Type A, [B] : Type B

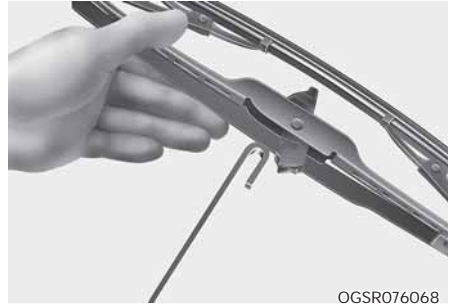
Within 20 seconds of turning off the vehicle, lift up (or push down) and hold the wiper lever to the MIST (or 1x) position for about 2 seconds until the wipers move to the top wipe position.

At this time you can lift the wipers off the windshield.

Type A

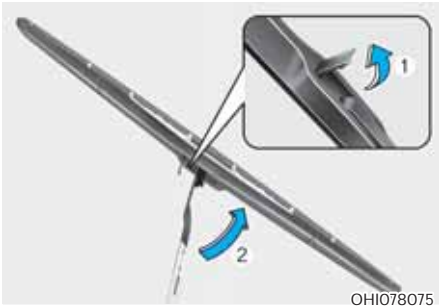


1. Lift up the wiper blade clip. Then lift up the wiper blade.
2. While pushing the lock (1), pull down the wiper blade (2).



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 lift up the wiper blade.



2. Press the clip (3). Then push the blade forward through the wiper arm to disassemble it (4).



3. Remove the wiper blade from the wiper arm (5).
4. Install the new blade assembly in the reverse order of removal.
5. Return the wiper arm on the windshield.

BATTERY (12 VOLT)



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.

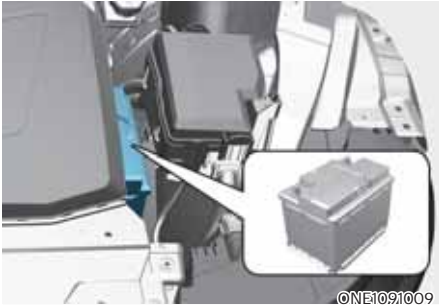
- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.
- NEVER attempt to recharge the battery when the vehicle's 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 liquid from wetting the battery terminals. The performance of the battery may be degraded, and may cause injury. Be cautious when loading liquid in the trunk.
- 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



- * The actual battery label in the vehicle may differ from the illustration.
1. CMF60L-BCI : The HYUNDAI model name of battery
 2. 12V : The nominal voltage

3. 60Ah(20HR) : The nominal capacity (in Ampere hours)
4. 92RC : The nominal reserve capacity (in min.)
5. 550CCA : The cold-test current in amperes by SAE
6. 440A : The cold-test current in amperes by EN

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 20-30A 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.

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” 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.

- Driving info/After recharging/Accumulated info (items in Utility view) (see chapter 4)
- Integrated memory system (see chapter 5)
- Power window (see chapter 5)
- Vision roof (see chapter 5)
- Power tailgate (see chapter 5)
- Climate control system (see chapter 5)
- Clock (see Infotainment system manual)
- Infotainment system (see 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 three hours or driven less than 1.6 km (one mile).

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 "Tire 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.

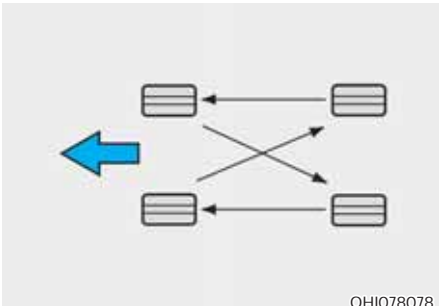
If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve 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 12,000 km (7,500 miles) 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.

i 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 six (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.

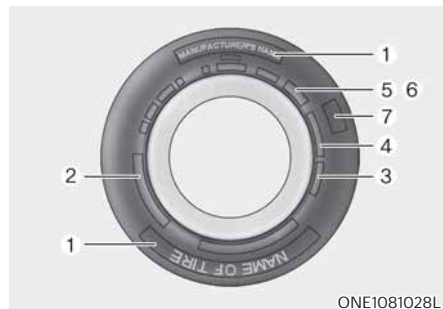
Tire maintenance

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 5022 represents that the tire was produced in the 50th week of 2022.

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. Refer to the Tire and Loading Information label for recommended 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 (1½) 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 miles) 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



Normal



Blown

■ Cartridge type



Normal



Blown

■ Multi type



Normal



Blown

OTM078035

A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 5 fuse panels, one located in the driver's side panel bolster, the other in the vehicle 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.

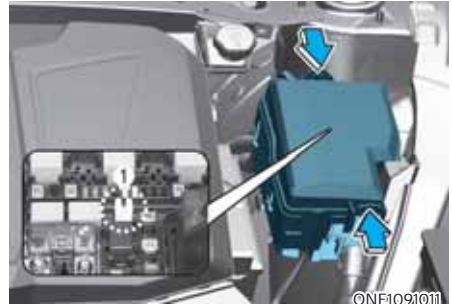
NOTICE

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.
4. Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.



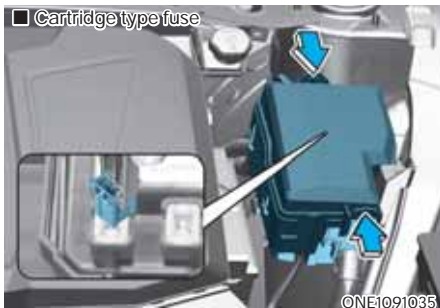
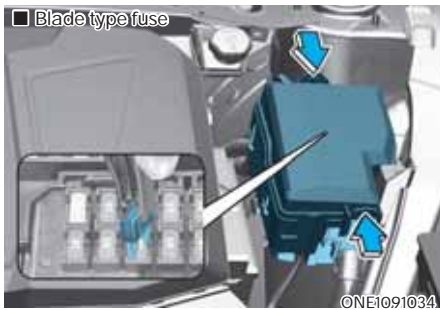
5. Pull the suspected fuse straight out. Use the removal tool (1) provided in the motor compartment fuses panel cover.
6. Check the removed fuse; replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the motor compartment fuse panel).
7. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, we recommend that you consult 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, such as the cigarette lighter fuse.

If the headlamps or other electrical components do not work and the fuses are undamaged, check the fuse panel in the motor compartment. If a fuse is blown, it must be replaced with the same rating.

Motor compartment panel fuse replacement

Blade fuse / Cartridge fuse

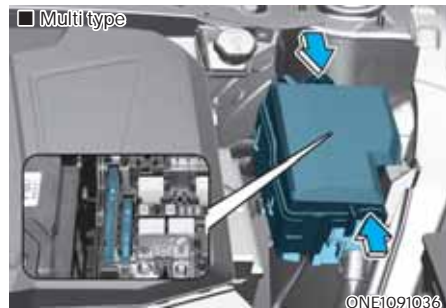


1. Turn the vehicle off.
2. Turn all other switches off.
3. Remove the fuse panel cover by pressing the tap and pulling up.
4. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the motor compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, we recommend that you consult an authorized HYUNDAI dealer.

NOTICE

After checking the fuse panel in the motor compartment, securely install the fuse panel cover. You may hear a clicking sound if the cover is securely latched. If it is not securely latched, electrical failure may occur from water contact.

Multi fuse



If the multi fuse is blown, we recommend that you consult an authorized HYUNDAI dealer.

Fuse/relay panel description

Instrument panel fuse panel



ONE1091012

Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay names and ratings.

i Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.

















	15A	REAR				7.5A		2	MEMORY		7.5A	100	SOLAR CHARGER		10A
	15A	2	EPCU		3	MODULE	7.5A	8	IG3	7	IG3	10A	IAU	1	SOLAR CHARGER VISION MODE
AFCU	10A	DRV/PASS						2	IBU	9	IG3	10A	BATTERY MANAGEMENT	2	
		LH		1	SPARE	15A	15A	4	MODULE	1	MEMORY	15A	2	SPARE	10A
AMP	25A	RH		6	MODULE	7.5A	10A	5	MODULE					1	IBU
DRV	30A	RH		1	A/C	7.5A	15A	1				2	MODULE		E-CALL
PASS	30A	LH		7	MODULE	7.5A						10A	1	IBU	10A
		RH										15A	1	MODULE	10A
		RH										20A	1	MODULE	10A

USE THE DESIGNATED FUSE ONLY
 USE SOLO LOS FUSIBLES ESPECIFICADOS.
 использовать только предназначенные предохранители и реле.







P/NO: 91990-GI640

ONE1091040L



Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
Child Lock		15A	Child Lock Relay, Child Unlock Relay
RR SEAT HTR		20A	Rear Seat Warmer Control Module
A/BAG IND		7.5A	Overhead Console
MEMORY2		10A	Head-Up Display
START		7.5A	VCU, IBU
S/CHARGE2		20A	SDC
MIRR HTR		10A	Driver Outside Mirror Unit, Passenger Outside Mirror Unit
T/GATE		15A	Tailgate Release Relay
EPCU2		10A	Rear Inverter
MODULE3		7.5A	Multifunction Switch, IBU, Stop Lamp Switch, Driver Door Module
CLUSTER		7.5A	Head-Up Display, Instrument Cluster
IG3 8		10A	V2L Unit, ICCU, VCMS, Rear Electronic Oil Pump, CDM
IG3 7		10A	Incar Temperature Sensor, A/V & Navigation Head Unit, A/C PTC Heater, A/C Control Module, Instrument Cluster
IAU		10A	Not Used
S/CHARGER/ VISION ROOF		20A	SDC, Vison Roof
AFCU		10A	AFCU, Driver/Passenger Door Outside Handle






Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
FR SEAT HET	 DRV/PASS	20A	Front Air Ventilation Seat Control Module, Front Seat Warmer Control Module
WASHER		15A	Multifunction Switch
IBU2	² IBU	7.5A	IBU
IG3 9	⁹ IG3	10A	SCU, Rear Inverter, BMU
BMS	 BATTERY MANAGEMENT	10A	BMU
A/BAG2	² 	10A	SRS Control Module
WIN LH	 LH	25A	Driver Safety Power Window Module (LHD), Passenger Safety Power Window Module (RHD), Rear Power Window Switch LH
SPARE1	¹ SPARE	15A	Not Used
E-SHIFTER3	³ E-SHIFTER	10A	Electronic ATM Shift Lever
MODULE4	⁴ MODULE	10A	Front/Rear Corner Radar LH/RH, Front/Rear Inverter, Crash Pad Switch, ADAS Driving ECU, VESS Unit, Front Radar, Front View Camera, ADAS Parking ECU
USB CHARGER	 USB CHARGER	15A	Front USB Charger #1, Front USB Charger #2

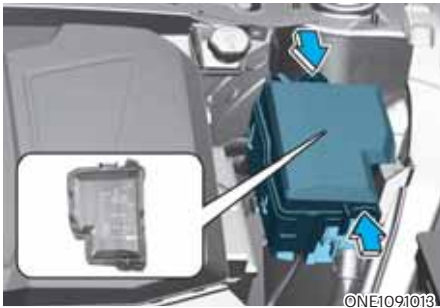
Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
MEMORY1	¹ MEMORY	15A	ICU Junction Block (Fuse F6), Instrument Cluster, A/C Control Module, Mood Lamp Unit
SPARE2	² SPARE	10A	Not Used
OMU	OMU	15A	Driver/Passenger Outside Mirror Unit, Driver Door Module
AMP	AMP	25A	AMP
WIN RH	^{RH} 	25A	Passenger Safety Power Window Module (LHD), Driver Safety Power Window Module (RHD), Rear Power Window Switch RH
MODULE6	⁶ MODULE	7.5A	IBU
MODULE5	⁵ MODULE	10A	Data Link Connector, Electro Chromic Mirror, E-CALL Unit, A/V & Navigation Head Unit, Crash Pad Switch, Head Lamp LH/RH, SDC, AMP, Smart Phone Wireless Charger, Driver/Passenger Power Seat Module, Front Air Ventilation Seat Control Module, Front Seat Warmer Control Module, Rear Power Seat LH/RH Module, Rear Seat Warmer Control Module
E-CALL	E-CALL	10A	E-CALL Unit
IBU1	¹ IBU	15A	IBU
BRAKE SWITCH	BRAKE SWITCH	10A	Stop Lamp Switch, IBU
P/SEAT DRV	^{DRV} 	30A	Driver Power Seat Switch, Driver Power Seat Module (With IMS)

Instrument panel fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
P/SEAT RR RH		30A	Rear Power Seat RH Module
A/C1	¹ A/C	7.5A	A/C Control Module
A/BAG1	¹ 	15A	SRS Control Module
MODULE2	² MODULE	10A	AMP, P/E Junction Block (Power Outlet Relay (RLY.11)), IBU, E-CALL Unit, ADAS Unit (Parking), A/V & Navigation Keyboard, A/V & Navigation Head Unit
MULTIMEDIA	MULTI MEDIA	15A	A/V & Navigation Head Unit
DR LOCK		20A	Door Lock Relay, Door Unlock Relay, Dead Lock Relay
MODULE1	¹ MODULE	10A	Hazard Lamp Switch, Multifunction Switch, Data Link Connector, Rain Sensor, P/R Junction Block (Blower Relay (RLY.9)), Driver/Passenger Door Speaker Mood Lamp, Driver/Passenger Door Arm Rest Mood Lamp, Rear Door Mood Lamp LH/RH, UIP Siren, PTG Unit, UIP Sensor, Rear Power Seat LH/RH Module, Driver/Passenger Power Seat Module
P/SEAT PASS	PASS 	30A	Passenger Power Seat Switch, Passenger Power Seat Module
P/SEAT RR LH		30A	Rear Power Seat LH Module
MODULE7	⁷ MODULE	7.5A	Rear Seat Warmer Control Module

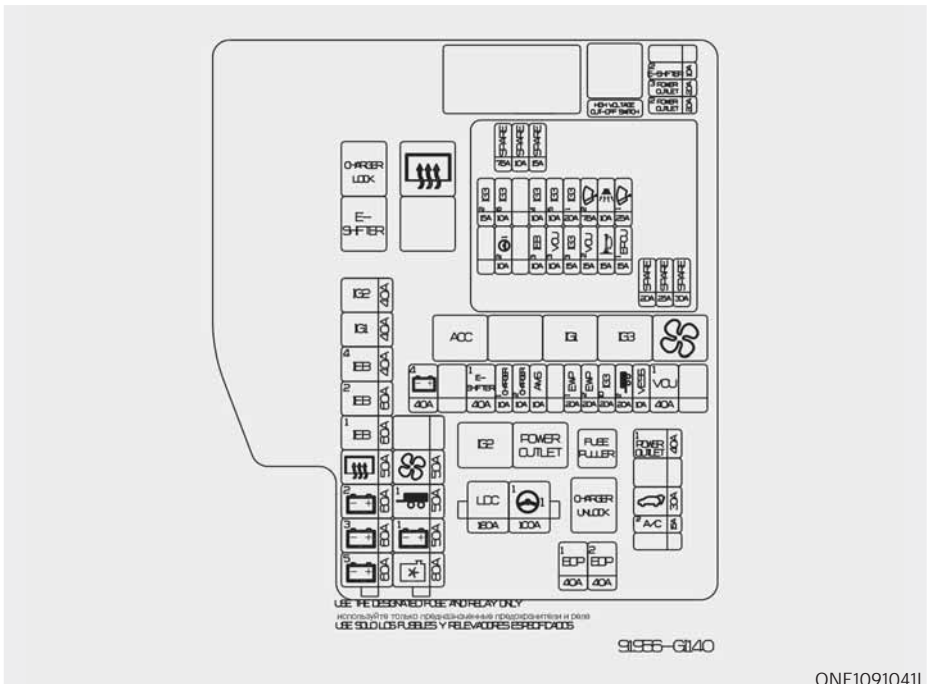
Motor compartment fuse panel



Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay names and ratings.










i Information



Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse panel in your vehicle, refer to the fuse panel label.









ONE1091041L

Motor compartment fuse panel

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
MULTI FUSE-1	LDC	IG1	180A	P/R Junction Block (Fuse : F15, F17, F20, F21)
	MDPS1	¹  ¹	100A	MDPS Unit
MULTI FUSE-2	B+5	⁵  ⁵	60A	PCB Block (IG3 Main Relay, Fuse : F1, F2, F3, F4, F6)
	B+3	³  ³	60A	ICU Junction Block (Fuse : F1, F2, F10, F11, F19, F20, F29, F37, F38, F46, F47, F55, F56)
	B+2	²  ²	60A	ICU Junction Block (IPS1, IPS4, IPS6, IPS8, IPS9, IPS10)
	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)
MULTI FUSE-3	C/FAN		80A	Cooling Fan Motor
	B+1	¹  ¹	50A	ICU Junction Block (IPS2, IPS3, IPS4, IPS5)
	TRAILER1	¹  ¹	50A	Trailer Connector Unit
	BLOWER		50A	P/R Junction Block (RLY.9)

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	B+4	⁴ 	40A	ICU Junction Block (Long Term Load Latch Relay, Fuse : F8, F17, F18, F26, F27, F35, F36, F45, F44, F53, F54)
	E-SHIFTER1	¹ E-SHIFTER	40A	P/R Junction Block (RLY.2, Fuse : F22)
	CHARGER1	¹ CHARGER	10A	P/R Junction Block (RLY.1, RLY.12), ICCU, VCMS
	CHARGER2	² CHARGER	10A	CDM
	AMS	AMS	10A	12V Battery Sensor
	EWP1	¹ EWP	20A	Electronic Water Pump #1
	EWP2	² EWP	20A	Electronic Water Pump #2
	IG3 10	¹⁰ IG3	20A	Not Used
	TRAILER2	² 	20A	Trailer Connector Unit
	VESS	VESS	10A	VESS Unit
	VCU1	¹ VCU	40A	VCU

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	P/OUTLET1	¹ POWER OUTLET	40A	P/R Junction Block (RLY.11)
	T/GATE		30A	PTG Unit
	A/C2	² A/C	15A	A/C Control Module
	EOP1	¹ EOP	40A	Rear Electronic Oil Pump
	EOP2	² EOP	40A	Front Electronic Oil Pump (4WD)
	E-SHIFTER2	² E-SHIFTER	10A	P/R Junction Block (RLY.2), SCU, Electronic ATM Shift Lever
	P/OUTLET3	³ POWER OUTLET	20A	Rear Power Outlet
	P/OUTLET2	² POWER OUTLET	20A	Front Power Outlet

Fuse Name	Symbol	Fuse Rating	Circuit Protected
WIPER1	¹ 	25A	PCB Block (Wiper Main Relay)
EPCU1	¹ EPCU	15A	Front Inverter (4WD)
B/ALARM		10A	PCB Block (Burglar Alarm Horn Relay)
HORN		15A	PCB Block (Horn Relay)
WIPER2	² 	7.5A	IBU
VCU2	² VCU	15A	VCU
IG3 1	¹ IG3	20A	ICU Junction Block (Fuse : F14, F16, F24)
IG3 3	³ IG3	15A	Electronic Water Pump
IG3 5	⁵ IG3	10A	BMS Coolant 3Way Valve
VCU3	³ VCU	10A	VCU
IG3 4	⁴ IG3	10A	A/C Coolant Valve, Electronic Water Pump #1, #2, Electronic A/C Compressor
IEB3	³ IEB	10A	Multipurpose Check Connector, IEB Unit
IG3 6	⁶ IG3	10A	Cooling Fan Motor, Front Electronic Oil Pump (4WD)
MDPS2 ¹	²  ¹	10A	MDPS Unit
IG3 2	² IG3	15A	Front Inverter (4WD), VCU

*1: MDPS(Motor Driven Power Steering) is the same as EPS(Electric Power Steering)

LIGHT BULBS

We recommend you to consult 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 headlamp assembly to get to the bulb(s).

Removing/installing the headlamp assembly can result in damage to the vehicle.



WARNING

- Prior to working on a light, depress the foot brake, 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 rating. Otherwise, it may cause damage to the fuse or electrical wiring system.

NOTICE

To prevent damage, do not clean the headlamp lens with chemical solvents or strong detergents.



Information - Headlamp desiccant (if equipped)

This vehicle is equipped with desiccant to reduce fogging inside the headlamp due to moisture. The desiccant is consumable and its performance may change on the used period or environment. If fogging inside the headlamp due to moisture continues for a long time, we recommend that you consult an authorized HYUNDAI dealer.



Information

The headlamp and tail lamp lenses could appear frosty if the vehicle is washed after driving or the vehicle is driven at night in wet weather. This condition is caused by temperature difference between the lamp inside and outside and, it does not indicate a problem with your vehicle. When moisture condenses in the lamp, it will be removed after driving with the headlamp on. The removable level may differ depending on lamp size, lamp position and environmental condition. However, if moisture is not removed, we recommend that your vehicle is inspected by an authorized HYUNDAI dealer.

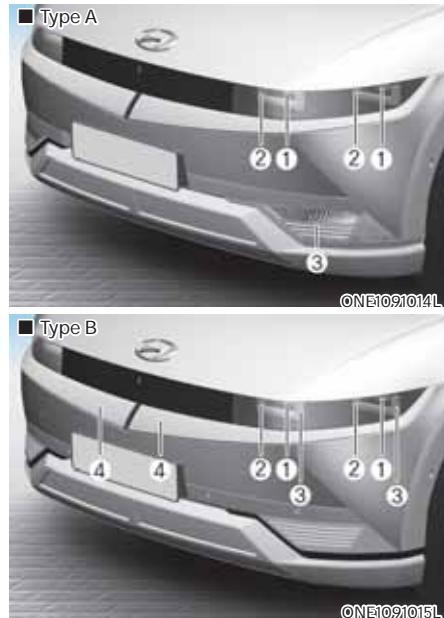
i Information

- A normally functioning lamp may flicker momentarily to stabilize the vehicle's electrical control system. However, if the lamp goes out after flickering momentarily, or continues to flicker, we recommend the system be checked by an authorized HYUNDAI dealer.
- The position lamp may not turn on when the position lamp switch is turned on, but the position lamp and headlamp switch may turn on when the headlamp switch is turned on. This may be caused by network failure or vehicle electrical control system malfunction. If this occurs, we recommend the system be checked by an authorized HYUNDAI dealer.

i Information

The headlamp aiming should be adjusted after an accident or after the headlamp assembly is reinstalled.

Headlamp, position lamp, turn signal lamp, Daytime Running Light (DRL) replacement



- (1) Headlamp (High/Low)
- (2) Position lamp/Daytime running light
- (3) Turn signal lamp
 - Type A : Bulb
 - Type B : LED (if equipped)
- (4) Garnish hidden lighting (if equipped)

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 has 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.

Turn signal lamp (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 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 has 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.

Aiming point



ONE1091044L

H1 : Height between the head lamp bulb center and ground (Low beam)

H2 : Height between the head lamp bulb center and ground (High beam)

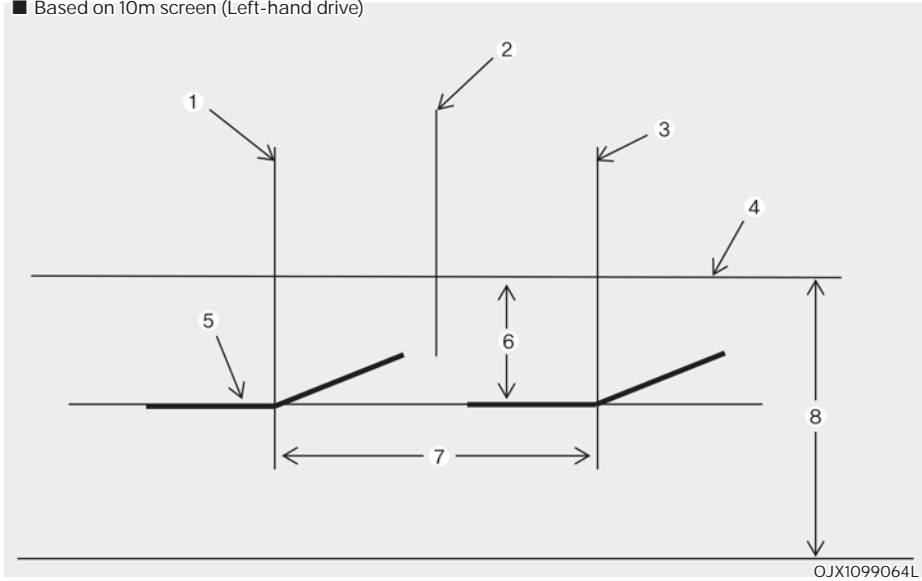
W1 : Distance between the two head lamp bulbs centers (Low beam)

W2 : Distance between the two head lamp bulbs centers (High beam)

VEHICLE CONDITION	LAMP TYPE	H1	H2	W1	W2
WITHOUT DRIVER	STD (LED MFR)	505	505	1282.6	1282.6
	OPT (LED PROJ)	518.5	507.5	1487.2	1079.8
WITH DRIVER	STD (LED MFR)	495	495	1282.6	1282.6
	OPT (LED PROJ)	508.5	497.5	1487.2	1079.8

Headlamp low beam

■ Based on 10m screen (Left-hand drive)

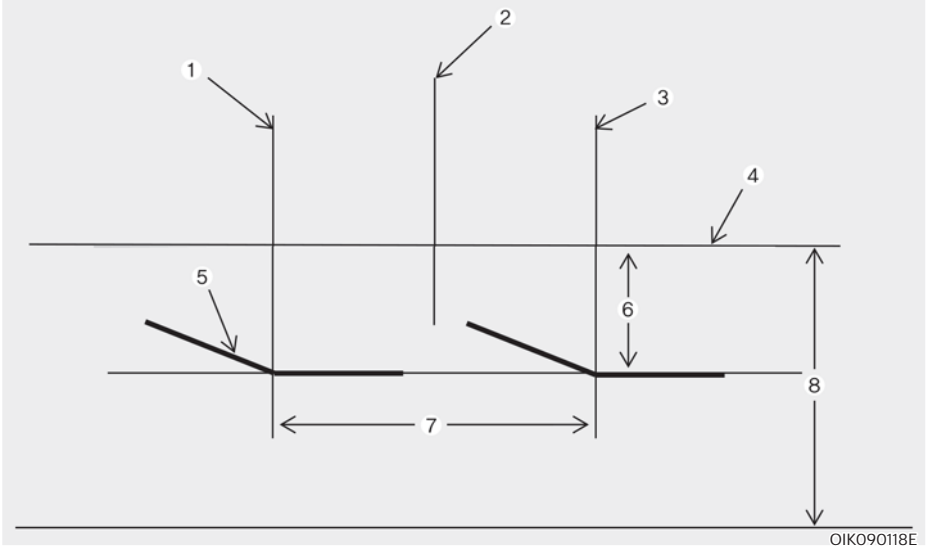


OJX1099064L

- [1] : Vertical line of the left headlamp bulb center
- [2] : Car axis
- [3] : Vertical line of the right headlamp bulb center
- [4] : Horizontal line of headlamp bulb center
- [5] : Cut-off line
- [6] : 30
- [7] : W1 (Low beam)
- [8] : H1 (Low beam)
- [9] : Ground

1. Turn the low beam on without driver aboard.
 2. The cut-off line should be projected in the cut-off line shown in the picture.
 3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
 4. If headlamp leveling device is equipped, adjust the head lamp leveling device switch to "0".
- * The high beam is aimed simultaneously when aiming the low beam.

■ Based on 10m screen (Right-hand drive)

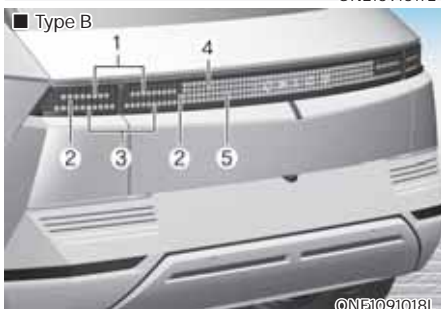
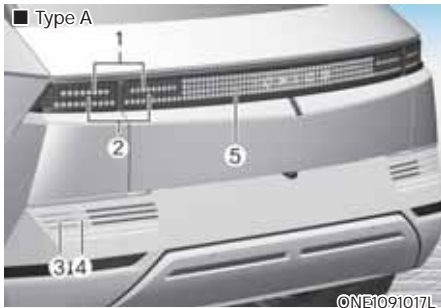


OIK090118E

- [1] : Vertical line of the left headlamp bulb center
- [2] : Car axis
- [3] : Vertical line of the right headlamp bulb center
- [4] : Horizontal line of headlamp bulb center
- [5] : Cut-off line
- [6] : 30
- [7] : W1 (Low beam)
- [8] : H1 (Low beam)
- [9] : Ground

1. Turn the low beam on without driver aboard.
 2. The cut-off line should be projected in the cut-off line shown in the picture.
 3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
 4. If headlamp leveling device is equipped, adjust the head lamp leveling device switch to "0".
- * The high beam is aimed simultaneously when aiming the low beam.

Rear combination lamp replacement



- (1) Stop lamp
- (2) Rear lamp/Stop lamp
- (3) Turn signal lamp
- (4) Reverse lamp
 - Type A: Bulb
 - Type B: LED (if equipped)
- (5) Rear fog lamp

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 has 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.

Turn signal lamp, Back-up lamp (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 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 has 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

License plate lamp replacement

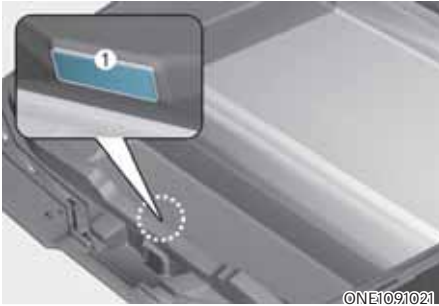


If the LED lamp (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamps has 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 (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 has 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



■ First row lamp (if equipped)



■ Rear seat room lamp (without vision roof/solar roof)



■ Rear seat personal lamp (with vision roof/solar roof)



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 has 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.

Vanity mirror lamp and luggage compartment lamp (Bulb type)



1. Apply the parking brake and place the Start/Stop button in the OFF position.
2. Turn off the lights.
3. Using a flat-head screwdriver, gently pry the lens from the interior light housing.
4. Remove the bulb by pulling it straight out.
5. Insert a new bulb into the socket.
6. Align the lens tabs with the interior light housing notches and snap the lens into place.

NOTICE

Use care not to dirty or damaged lenses, lens tabs, and plastic housings.

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 vehicle 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 brightmetal 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.**

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.

